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# A NEW TOOL FOR COMPUTING GALOIS GROUPS AND GALOIS IDEALS

SÉBASTIEN ORANGE, GUÉNAËL RENAULT, ANNICK VALIBOUZE

#### Abstract

In this paper, we study some relations between univariate polynomials and their Galois group. It is presented in the form of tables, called "splitting tables". We show how these tables occur in factorizations over algebraic extensions, in the determination of Galois groups, in the computation of roots fields and in the computation of polynomials with given Galois group and coefficients in a number field.

#### 1. Introduction

Let f be an irreducible polynomial of degree n > 1 with coefficients in a perfect field k. We denote by  $Gal_k(f)$  the Galois group of f over k. The polynomial f being irreducible, its Galois group is a transitive subgroup of  $S_n$ , the symmetric group of degree n.

There are algorithms that factorize f over  $K = k(\alpha)$ ,  $\alpha$  a root of f (see [5], [16],[21]). We show that the degrees and Galois groups of the irreducible factors of f over K depend only on  $\operatorname{Gal}_k(f)$  (Proposition 3.1). Then factorization f over K gives information on the Galois group of f over k and vice versa. By this way, our work can be seen as an extension of Soicher and McKay paper (see [19]) since we consider not only the degrees of the factors but also their Galois group and its applications. These informations are collected by the means of tables called splitting tables.

Splitting tables are described in section 2. In section 3, we explain the links between the splitting tables and the Galois group of polynomials. The section 4 contains the central contribution of this paper: the applications of these tables. In section 4.1 we show how these tables can be used for the determination of the Galois group. The section 4.2 is devoted to application for the factorization of a polynomial over one of its root field (a simple algebraic extension generated by **one** root of the polynomial) and we show in section 4.3 how this principle can be inductively applied for the computation of the roots field (the algebraic extension generated by **all** the roots of the polynomial). The section 4.4 presents application for the determination of polynomials with a given Galois group and coefficients in a number field. Splitting tables up to degree 21 are joined in the last section.

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#### 2. Splitting tables

This part collects all theoretical results for the construction of the central object of this article: the *splitting tables*.

#### 2.1. Notation.

The following notations will be used:

- Following Butler and McKay (see [8] and [12]), let  $nT_i$  be the *i*-th group of the list  $\mathcal{T}(n)$  of the transitive permutation groups of degree n (one for each conjugacy class of  $S_n$ ).
- $\ll$  is the order relation on transitive groups defined by:

$$dT_i \ll mT_j \ \ \text{if} \ \begin{cases} d < m \\ \text{or} \\ d = m \ \ \text{and} \ \ i \leq j \ . \end{cases}$$

- For each part  $\mathcal{O}$  of the set  $\{1,\ldots,n\}$ , we denote by  $S_{\mathcal{O}}$  the symmetric group of degree  $\operatorname{Card}(\mathcal{O})$  acting on  $\mathcal{O}$ .
- For G a subgroup of  $S_n$  and  $i \in \{1, ..., n\}$ , let  $\operatorname{Stab}_{\{i\}}(G)$  be the subgroup of the permutations of G fixing i.

#### 2.2. Definition of splitting tables.

Fix a subgroup G of  $S_n$  and consider the set of orbits  $\mathcal{O}(G)$  of  $\{1,\ldots,n\}$  under the natural action of  $\operatorname{Stab}_{\{1\}}(G)$ .

For each orbit  $\mathcal{O} \in \mathcal{O}(G)$ , the transitive action of  $\operatorname{Stab}_{\{1\}}(G)$  over  $\mathcal{O}(G)$  is identified to the one of a subgroup  $G_{\mathcal{O}}$  of  $S_{\mathcal{O}}$  contained in the set of representatives  $\mathcal{T}(\operatorname{Card}(\mathcal{O}))$ .

- We denote by S(G) the finite sequence of groups  $G_{\mathcal{O}}$  where  $\mathcal{O}$  varies over  $\mathcal{O}(G)$ . In S(G) the groups are ordered by  $\ll$  increasing order.
- We denote by D(G) the degree sequence of the groups of the list S(G) (i.e. the cardinality of the orbits  $\mathcal{O}(G)$  ordered in increasing order).

The table collecting the sequences S(G) where G runs over  $\mathcal{T}(n)$  is called the splitting table of degree n.

For each group G of the splitting table, we add some additional informations, i.e. the sequence D(G) and a list  $\mathcal{L}(G)$  described below (see also [4]).

• Let  $(L_i)_{1 \leq i \leq n+1}$  be the sequence defined inductively by:  $L_1 = G$  and, for  $i \in [1, n]$ ,

$$L_{i+1} = \operatorname{Stab}_{\{i\}}(G) \cap L_i$$
.

• Let  $\mathcal{L}(G)$  be the list  $[d_1 = n, \dots, d_n = 1]$  defined by

$$d_i = \operatorname{Card}(L_i) / \operatorname{Card}(L_{i+1})$$
.

Remark 2.1. Let G' be a conjugate of G in  $S_n$ . We have S(G) = S(G') and D(G) = D(G'). The list  $\mathcal{L}(G')$  is not necessarily equal to  $\mathcal{L}(G)$ . In the splitting tables, for each group G considered, we choose the list  $\mathcal{L}(G)$  defined as above for the representative presents in the list.

#### 2.3. Construction of the splitting tables.

The tables have been generated by using the computer algebra system Magma (see [7]) in which we have implemented the functions computing the list  $\mathcal{L}(G)$  and the sequences S(G) and D(G) described in Section 2.2. The data base of groups of  $\mathcal{T}(m)$  for  $m \leq 23$  is included in Magma. Such an implementation is also possible with the computer algebra system Gap (see [10])

The exponential notation is used. For example:

- the sequence 1, 1, 1, 1, 2, 3, 3, 3, 4, 4 is represented by  $1^4, 2, 3^3, 4^2$ ;
- the sequence  $1T_1$ ,  $2T_1$ ,  $2T_1$ ,  $4T_2$ ,  $4T_3$ ,  $4T_3$ ,  $4T_3$  is represented by  $1T_1$ ,  $2T_1^2$ ,  $4T_2$ ,  $4T_3^3$ .

Each row of the splitting table of degree n corresponds to a group  $G = nT_i$  of  $\mathcal{T}(n)$ . An exponent + appears if G is even and an exponent \* if G is solvable. The rows of the tables are ordered according to the following rule: for two groups G and H of  $\mathcal{T}(n)$ ,

- if  $S(G) \neq S(H)$ , the row corresponding to G comes before the one for H if S(G) is smaller than S(H) for the lexicographic order induced by the order  $\ll$ ;
- if S(G) = S(H), the row corresponding to G comes before the one of H if  $G \ll H$ .

Example 2.2. We now show how to construct the table in degree 3; we have two transitive groups  $3T_1 = A_3$  and  $3T_2 = S_3$ .

In the case of  $3T_1$ , the action of  $\text{Stab}_{\{1\}}(3T_1)$  on the set  $\{1,2,3\}$  has three orbits; therefore, the action is trivial and we have  $D(3T_1) = 1^3$  and  $S(3T_1) = 1T_1, 1T_1, 1T_1$ .

In the case of  $3T_2$ , the orbits of the action of  $Stab_{\{1\}}(3T_2)$  on  $\{1, 2, 3\}$  are  $\{1\}$  and  $\{2, 3\}$ . The action of this group on the second orbit is the same as that of  $2T_1$ . Thus we obtain  $D(3T_2) = 1, 2$  and  $S(3T_2) = 1T_1, 2T_2$ .

#### 3. Splitting tables and Galois groups

When a group G is the Galois group of a polynomial f it is natural to look for a correspondence between G and f. This is the subject of this section.

#### 3.1. Relations ideals and Galois groups.

Let f be an irreducible polynomial of degree n.

Let  $\underline{\alpha} = (\alpha_1, \alpha_2, \dots, \alpha_n)$  be an n-tuple of the n distinct roots of f, and let  $x_1, x_2, \dots, x_n$  be algebraically independent variables. The ideal

$$\mathcal{M} = \{ R \in k[x_1, x_2, \dots, x_n] \mid R(\alpha) = 0 \}$$

is called the *ideal of the*  $\underline{\alpha}$ -relations (over k). The evaluation  $x_i \mapsto \alpha_i$  induces a morphism  $k[x_1, x_2, \dots, x_n]$  onto  $k(\underline{\alpha})$  whose kernel is  $\mathcal{M}$ . Thus:

$$k(\underline{\alpha}) \simeq k[x_1, x_2, \dots, x_n]/\mathcal{M}.$$

The Galois group  $G_{\underline{\alpha}}$  of  $\underline{\alpha}$  over k is defined by:

$$G_{\alpha} = \{ \sigma \in S_n \mid \forall R \in \mathcal{M}, \ R(\alpha_{\sigma(1)}, \alpha_{\sigma(2)}, \dots, \alpha_{\sigma(n)}) = 0 \}.$$

This group is isomorphic to the Galois group  $Gal_k(f)$  defined as the group of the k-automorphisms of the roots field  $k(\underline{\alpha})$  of f.

Any relations ideal of the polynomial f is, for a permutation  $\rho \in S_n$ , the set of all polynomials vanishing on  $\rho.\underline{\alpha}$ . The Galois group of  $\rho.\underline{\alpha}$  over k is the conjugate  $\rho^{-1}G_{\underline{\alpha}}\rho$  of  $G_{\underline{\alpha}}$ .

In next sections,  $G_f$  will denote the conjugate of  $G_{\underline{\alpha}}$  belonging to  $\mathcal{T}_n$ .

#### 3.2. Degrees and Galois groups of the splitting factors.

The s > 1 irreducible factors  $g_1(\alpha_1, X) = X - \alpha_1, g_2(\alpha_1, X), \dots, g_s(\alpha_1, X)$  of f over  $K = k(\alpha_1)$  will be called the *splitting factors* of f, and will be listed in increasing order of their degrees.

For all  $i \in [1, s]$ , the Galois group of  $g_i$  over K is isomorphic to a group  $G_i$  of  $\mathcal{T}(deg_X(g_i))$ . We complete the order of the polynomials  $g_i$  as follows:  $g_i < g_j$  if  $G_i \ll G_j$ .

The sequence  $D(f) = deg_X(g_1), \ldots, deg_X(g_s)$  is called the sequence of the splitting degrees of f and the sequence  $S(f) = G_1, \ldots, G_s$  is called the sequence of the splitting groups of f.

#### Proposition 3.1. We have:

$$S(f) = S(G_f) .$$

This means that the Galois groups over K of the splitting factors of f are the groups of the sequence  $S(G_f)$  only depending on the Galois group of f over k.

Démonstration. Let M be an extension of k and g be an irreducible factor of f on M. Denote by  $\mathcal{O}_f$  (resp.  $\mathcal{O}_g$ ) the roots set of f (resp. g) in an algebraic closure of k contening M. As g is irreducible over M, the classical Galois theory assure that the set  $\mathcal{O}_g$  is the  $Aut_M(M(\mathcal{O}_f))$ -orbit of any root of g.

Any automorphism of  $Aut_M(M(\mathcal{O}_g))$  can be lifted to an automorphism of  $Aut_M(M(\mathcal{O}_f))$ , thus the restriction homomorphism

$$\begin{array}{ccc} Aut_M(M(\mathcal{O}_f)) & \longrightarrow & Aut_M(M(\mathcal{O}_g)) \\ \sigma & \longmapsto & \sigma_{|_{M(\mathcal{O}_g)}} \end{array}$$

is surjective. Consequently, the action of  $Aut_M(M(\mathcal{O}_f))$  on  $\mathcal{O}_g$  is the same that the one of  $Aut_M(M(\mathcal{O}_g))$  on  $\mathcal{O}_g$  which gives, after an indexation of the roots, the symmetric representation of its Galois group.

In the case of  $M = K = k(\alpha_1)$ , this result proves that  $G_g$  is one of the groups of S(G). Conversely, a group of S(G) corresponds to a unique orbit of the action  $Stab_G(1)$  over  $\{1,\ldots,n\}$  which corresponds to a subset  $\mathcal{O}$  of  $\mathcal{O}_f$ . The classical Galois theory insures

that  $\mathcal{O}$  is the set of all the conjugates of one of its elements. Thus, the minimal polynomial of one element of  $\mathcal{O}$  over K is a factor of f. The equality  $S(f) = S(G_f)$  follows.

Remark 3.2. As a direct consequence of Proposition 3.1 we have the equality  $D(f) = D(G_f)$ . This equality can be refound (up to a constant factor) with the part of McKay and Soicher's table (see [19]) concerning linear resolvents with invariant of the form  $x_1 + \lambda x_2, \lambda \in k$ .

#### 3.3. Initial degrees of the maximal relations ideals.

The ideal of polynomials vanishing at  $\sigma.\underline{\alpha}$ , for all  $\sigma \in S_n$ , is the *ideal of symmetric relations between the roots of f*. It is generated by a triangular set of polynomials called Cauchy modules (see [20] and [18]). Let I be an ideal containing that of symmetric relations and generated by a triangular set  $\{f_1(x_1) = f(x_1), f_2(x_1, x_2), \ldots, f_n(x_1, \ldots, x_n)\}$ . The list of initial degrees is given by:

$$\mathcal{L}(I) = [deg_{x_1}(f_1), deg_{x_2}(f_2), \dots, deg_{x_n}(f_n)].$$

The maximal ideal  $\mathcal{M}$  of Section 3.1 is triangular (see [20] and [4]). As stated in the next proposition, its list of initial degrees only depends on the Galois group  $G_{\alpha}$ .

**Proposition 3.3.** (See [4]). The list  $\mathcal{L}(M)$  is equal to the list  $\mathcal{L}(G_{\underline{\alpha}})$  defined in Section 2.2.

#### 4. Applications

In this section we present a few applications using the splitting tables.

#### 4.1. Determination of the Galois group.

By Proposition 3.1 the Galois group is one of the groups H of the set  $\mathcal{T}(n)$  satisfying S(H) = S(f). We call *candidate groups* those for which D(H) = D(f).

The list D(f) is known once the factorization of f over K has been carried out. If there is only one candidate group H, or if only one of the candidate groups H satisfies S(f) = S(H), then we know that  $H = G_f$ . In order to determine which are the candidate groups H such that S(f) = S(H), it is not always necessary to determine the entire sequence S(f). The determination of some Galois groups of the splitting factors of f may be sufficient (see Example 4.2). Other effective methods may then be applied in order to complete this search. For instance, the factorization of f modulo a prime not dividing the discriminant (see [8] and [14]), or the exploitation of the parity of the Galois group of f.

The following examples refer to the splitting tables.

Example 4.1. When the Galois groups  $G_f$  is one of the groups  $6T_5$ ,  $7T_4$ ,  $10T_6$ ,  $13T_5^+$ ,  $14T_8$ ,  $14T_{16}$ ,  $15T_2$ ,  $15T_6^+$ ,  $15T_7$ , the computation of D(f) is sufficient for its determination.

Example 4.2. If an irreducible polynomial f of degree 15 satisfy D(f) = 1, 2, 4, 8 then, from the splitting table of degree 15, we know that its Galois group is one of the groups  $15T_{10}^+$ ,  $15T_{11}$ ,  $15T_{22}^+$ ,  $15T_{23}$  or  $15T_{29}$ . The determination of the Galois group over  $k(\alpha_1)$  of the splitting factor of degree 4 is sufficient for determining the Galois group of f.

Example 4.3. If an irreducible polynomial f of degree 15 is such that  $D(f) = 1, 4, 5^2$ , and if the discriminant of one of its splitting factors of degree 5 is a square in the  $k(\alpha_1)$ , then the Galois group of f is  $15T_{92}^+$ .

Example 4.4. If an irreducible polynomial of degree 9 is such that  $D(f) = 1, 2, 3^2$ , the list of the candidate groups are  $9T_{13}$ ,  $9T_{22}$ ,  $9T_{25}^+$  and  $9T_{28}$ .

Example 4.5. If the degree of an irreducible polynomial f is 16 and  $D(f) = 1^8, 8$ , there are three candidate groups. If, in addition, the discriminant of f shows that the Galois group is odd then, by using the splitting table for the degree 16, we know that  $G_f = 16T_{289}$ .

Example 4.6. If f is of degree 15 and  $D(f) = 1, 2, 3^4$  then the Galois group f is one of the following groups:  $15T_{33}$ ,  $15T_{44}$ ,  $15T_{71}^+$  and  $15T_{81}$ . The determination of S(f) is not sufficient to distinguish them. If  $G_f$  is odd, three groups are left. In such a case, the splitting tables are not sufficient for the determination of all the Galois groups.

Example 4.7. Suppose that f splits into linear factors over K (i.e.  $D(f) = 1^n$ ). If, as in degree 4, there are many candidate groups, one can nevertheless distinguish them. Actually, for  $\underline{\alpha}$  such that  $g_i(\alpha_1, \alpha_i) = 0$ , the ideal generated by the triangular set:

$$f(x_1), g_2(x_1, x_2), \ldots, g_n(x_1, x_n)$$

is the ideal  $\mathcal{M}$  of the  $\underline{\alpha}$ -relations, and the Galois group of  $\underline{\alpha}$  over k is the decomposition group of this ideal (see [1] for the determination of this group).

#### 4.2. Factorization of polynomials in their root field.

The splitting table for a given degree n gives the set  $\mathcal{D}(n)$  of the lists of the degrees of the possible splitting factors of an irreducible polynomial f of degree n. Therefore, when factorizing in the root field, the search for possible factors can be restricted to the ones whose list of the degrees is contained in  $\mathcal{D}(n)$ . In this way, one can avoid useless calculations in the classical factorization algorithms by using an interactive algorithm (e.g. see [13]).

Example 4.8. The number of elements of the set  $\mathcal{D}(7)$  is a priori bounded by the number of partitions of 6, i.e. 11. The table for the degree 7 gives the exact value:  $|\mathcal{D}(7)| = 4$ . In this way a great number of combinations of possible factors in an algorithm of modular factorization can be avoided. Clearly, if some informations on the Galois group are available, the possible degrees of the factors can be restricted to a subset of  $\mathcal{D}(n)$ .

#### 4.3. Determination of the roots field of a polynomial.

The determination of the roots field of f is equivalent to the determination of a triangular set  $S_{\mathcal{M}}$  of polynomials generating a maximal relations ideals  $\mathcal{M}$  of f.

The most ancient method consists in factoring f in its algebraic extensions (see [20] and [2]). This method can be improved by using the splitting tables as a guide for the factorisations. Indeed, we just have to apply recursively the approach of section 4.2.

Another method for the determination of  $S_{\mathcal{M}}$  consists in the construction of an ascending chain of ideals starting from an ideal containing the symmetric relations between the roots of f and ending with  $\mathcal{M}$  (see the GaloisIdeal algorithm in [22]). In [17],

it is shown how to improve this method by associating with it the factorization in the extensions and by making use of the splitting tables (see Remark 4.9).

Let I be an ideal containing symmetric relations generated by a triangular set  $S_I = \{f_1(x_1) = f(x_1), f_2(x_1, x_2), \dots, f_n(x_1, \dots, x_n)\}$  of polynomials vanishing on  $\underline{\alpha}$ , and let  $m_i = deg_{x_i}(f_i)$  for  $i = 1, 2, \dots, n$ . Assume that the polynomials of  $S_I$  are known and that the ideal  $\mathcal{M}$  vanish on  $\underline{\alpha}$ . We want to find the generating set  $S_{\mathcal{M}}$ .

The list  $\mathcal{L}(\mathcal{M}) = [d_1, d_2, \dots, d_n]$  equals  $\mathcal{L}(G_{\underline{\alpha}})$  (see Proposition 3.3). Suppose that the list  $\mathcal{L}(G_{\underline{\alpha}})$  is known by the way of some informations on the Galois group of f. This is the case, for instance, when one knows that the Galois group  $G_{\underline{\alpha}}$  belongs to a known list of groups H having identical lists  $\mathcal{L}(H)$ . We show below how the search of  $\mathcal{S}_{\mathcal{M}}$  is simplified.

Actually, since I is included in  $\mathcal{M}$  we have

$$d_i \le m_i, \ i = 1, 2, \dots, n.$$

The comparison of the list  $\mathcal{L}(I)$  with  $\mathcal{L}(G_{\alpha})$  yields the following result:

- 1- we have  $d_i = m_i$  if and only if one can choose the *i*-th polynomial of the set  $\mathcal{S}_I$  to be the *i*-th polynomial of the set  $\mathcal{S}_{\mathcal{M}}$ ;
- 2- if  $d_i < m_i$ , then the *i*-th polynomial of the set  $\mathcal{S}_{\mathcal{M}}$  is a factor of the *i*-th polynomial of the set  $\mathcal{S}_I$  considered as a polynomial of the ring  $k(\alpha_1, \ldots, \alpha_{i-1})[x]$ .

For the determination of the missing polynomial of the set  $\mathcal{S}_{\mathcal{M}}$  it is possible to apply the methods already referred (factorization in algebraic extensions, GaloisIdeal algorithm) or some particular results (see for instance [15] where an interpolation method is given for the case  $d_i = 1$ .) enlightened by this additional information.

Remark 4.9. A system of generators of an ideal I contained in the relations ideal  $\mathcal{M}$  can be constructed from the sequence  $f_1(x_1), g_2(x_1, x), \ldots, g_s(x_1, x)$  in which the polynomial  $g_1(x_1, x) = x - x_1$  is missing. The procedure consists in replacing inductively each polynomial  $g_i$  of the sequence with its Cauchy modules, paying attention that the introduced variables do not yet appear in the polynomials of the new sequence under construction. The ideal obtained by this way is called the start ideal of the polynomial f (see [17]).

Example 4.10. Consider again the example 4.1. The list of the degrees of the set of generators of the start ideal of f is  $[16, 8, 7, 6, 5, 4, 3, 2, 1^8]$ . The splitting table for the degree 16 shows that  $\mathcal{L}_M = [16, 8, 1^{14}]$  (in this particular case, the initial degrees of any relations ideals of f are the same; i.e. the list  $\mathcal{L}$  is independent of the representant of the  $S_n$ -conjugacy class of any candidate group). If we compare these two lists we know that we will find a relations ideal if we replace in the start ideal of f the Cauchy modules of the factor  $g_8$  of degree 8 (except for the polynomial  $g_8$  itself) with linear relations of the form  $x_i + g_i(x_1, x_8)$ , for  $i \in [10, 16]$ .

Remark 4.11. A recursive utilization of splitting tables by factoring f in extensions would need to establish splitting tables for non transitive subgroups of  $S_n$ . Actually, the Galois group of a non irreducible polynomial without multiple roots is a subgroup of the direct product of the Galois groups of the factors.

#### 4.4. Polynomials with given Galois groups in algebraic extensions.

Let H be a transitive subgroup of  $S_r$ . The splitting tables allow the search of polynomials with coefficients in an algebraic extension with H as Galois group. Suppose that, for some n, there exists a subgroup G of  $S_n$  such that the group H appears in the sequence S(G).

Suppose that we know a polynomial  $f \in k[x]$  with Galois group over k isomorphic to G. For  $n \leq 15$ , the data base galpols of Magma contains such a polynomial.

Let  $\alpha$  be a root of f. We know that among the splitting factors of f there exists at least one polynomial h with Galois group over  $K = k(\alpha)$  isomorphic to H.

Remark 4.12. If in the sequence S(G) there exists at least one subgroup of  $S_r$  different from H, then the problem is to determine which splitting factor of f admits H as Galois group. In this case, the most reliable method for determining the Galois group is that of the algebraic calculation of resolvents (see for instance [6], [9], [11], [19] or [3]). Obviously it is preferable to choose, if that is possible, a polynomial f so as to avoids this situation.

Example 4.13. A polynomial with Galois group  $10T_{39}$  over a monogenic extension of k can be obtained from a polynomial with Galois group  $12T_{293}$ . In one of its root fields K, a polynomial with Galois group  $12T_{293}$  factors into two linear factors and a factor of degree 10 with Galois group  $10T_{39}$  over K.

The following polynomial is the one with Galois group  $12T_{293}$  over  $\mathbb{Q}$  which is found in the data base GALPOLS of MAGMA:

$$f(X) = X^{12} - 13X^{10} + 65X^8 - 156X^6 + 181X^4 - 86X^2 + 7.$$

The factorization of f over  $K = \mathbb{Q}(\alpha)$  returns two linear factors and a splitting factor of degree 10:

$$h(X) = X^{10} + X^8\alpha^2 - 13X^8 + \alpha^4X^6 - 13\alpha^2X^6 + 65X^6 + \alpha^6X^4 - 13\alpha^4X^4 + 65\alpha^2X^4 - 156X^4 + \alpha^8X^2 - 13\alpha^6X^2 + 65\alpha^4X^2 - 156\alpha^2X^2 + 181X^2 + \alpha^{10} - 13\alpha^8 + 65\alpha^6 - 156X^4 + 181\alpha^2 - 86.$$

According to the splitting table of degree 16, the Galois group of h over  $\mathbb{Q}(\alpha)$  is  $10T_{39}$ .

#### 5. Conclusion

In this paper we present many applications of the splitting tables. We show how they can be used for the determination of the Galois group and the splitting field of a polynomial and also for the computation of polynomials with given Galois group and coefficients in a number field. This tables can be viewed as an enlightenment for computer algebra concerning factorization of polynomials over algebraic extensions.

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#### 6. Splitting tables for the degrees from 3d to 21th

# Splitting table of degree 3

D(G)	S(G)	G	$\mid G \mid$	$\mathcal{L}(G)$			
$[1^3]$	$(1T_1)^3$	$3T_1^{+*}$	3! / 2	$[3, 1^2]$			
[2, 1]	$1T_1, 2T_1$	$3T_{2}^{*}$	3!	[3, 2, 1]			
G: Possibl	$G$ : Possible Galois Groups, $D(G)$ : Degrees of factors, $S(G)$ : Galois Groups of factors, $\mathcal{L}(G)$ : Initial Degrees						

# Splitting table of degree 4

D(G)	S(G)	G	$\mid G \mid$	$\mathcal{L}(G)$
$[1^4]$	$(1T_1)^4$	$4T_{1}^{*}$	4	$[4, 1^3]$
$[1^4]$	$(1T_1)^4$	$4T_2^{+*}$	4	$[4, 1^3]$
$[2, 1^2]$	$(1T_1)^2$ , $2T_1$	$4T_{3}^{*}$	8	$[4, 2, 1^2]$
[3, 1]	$1T_1, 3T_1^{+*}$	$4T_4^{+*}$	4! / 2	$[4, 3, 1^2]$
[3, 1]	$1T_1, 3T_2^*$	$4T_{5}^{*}$	4!	[4, 3, 2, 1]
G: Possibl	le Galois Groups,	D(G): D	egrees of	factors, $S(G)$ : Galois Groups of factors, $\mathcal{L}(G)$ : Initial Degrees

D(G)	S(G)	G	$\mid G \mid$	$\mathcal{L}(G)$			
$[1^5]$	$(1T_1)^5$	$5T_1^{+*}$	5	$[5, 1^4]$			
$[2^2, 1]$	$1T_1, (2T_1)^2$	$5T_2^{+*}$	10	$[5, 2, 1^3]$			
[4, 1]	$1T_1, 4T_1^*$	$5T_3^*$	20	$[5, 4, 1^3]$			
[4, 1]	$1T_1, 4T_4^{+*}$	$5T_4^+$	5! / 2	$[5,\ldots,3,1^2]$			
[4, 1]	$1T_1, 4T_5^*$	$5T_5$	5!	$[5,\ldots,1]$			
G: Possibl	$G$ : Possible Galois Groups, $D(G)$ : Degrees of factors, $S(G)$ : Galois Groups of factors, $\mathcal{L}(G)$ : Initial Degrees						

D(G)	S(G)	G	$\mid G \mid$	$\mathcal{L}(G)$
$[1^6]$	$(1T_1)^6$	$6T_1^*$	6	$[6, 1^5]$
$[1^6]$	$(1T_1)^6$	$6T_{2}^{*}$	6	$[6, 1^5]$
$[3, 1^3]$	$(1T_1)^3$ , $3T_1^{+*}$	$6T_{5}^{*}$	18	$[6, 3, 1^4]$
$[2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$	$6T_{3}^{*}$	12	$[6, 2, 1^4]$
$[2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$	$6T_4^{+*}$	12	$[6, 2, 1^4]$
$[2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$	$6T_{6}^{*}$	24	$[6, 2^2, 1^3]$
$[4, 1^2]$	$(1T_1)^2, 4T_1^*$	$6T_{8}^{*}$	24	$[6, 4, 1^4]$
$[4, 1^2]$	$(1T_1)^2, 4T_2^{+*}$	$6T_7^{+*}$	24	$[6, 4, 1^4]$
$[4, 1^2]$	$(1T_1)^2, 4T_3^*$	$6T_{11}^*$	48	$[6, 4, 2, 1^3]$
[3, 2, 1]	$1T_1, 2T_1, 3T_2^*$	$6T_9^*$	36	$[6, 3, 2, 1^3]$
[3, 2, 1]	$1T_1, 2T_1, 3T_2^*$	$6T_{10}^{+*}$	36	$[6, 3, 2, 1^3]$
[3, 2, 1]	$1T_1, 2T_1, 3T_2^*$	$6T_{13}^*$	72	$[6, 3, 2^2, 1^2]$
[5, 1]	$1T_1, 5T_2^{+*}$	$6T_{12}^{+}$	60	$[6, 5, 2, 1^3]$
[5, 1]	$1T_1, 5T_3^*$	$6T_{14}$	120	$[6, 5, 4, 1^3]$
[5, 1]	$1T_1, 5T_4^+$	$6T_{15}^{+}$	6! / 2	$[6,\ldots,3,1^2]$
[5, 1]	$1T_1, 5T_5$	$6T_{16}$	6!	$[6,\ldots,1]$
G: Possible	Galois Groups, $D(C$	F): Degree	es of facto	ors, $S(G)$ : Galois Groups of factors, $\mathcal{L}(G)$ : Initial Degrees

D(G)	S(G)	G	$\mid G \mid$	$\mathcal{L}(G)$
$[1^7]$	$(1T_1)^7$	$7T_1^{+*}$	7	$[7, 1^6]$
$[2^3, 1]$	$1T_1, (2T_1)^3$	$7T_{2}^{*}$	14	$[7, 2, 1^5]$
$[3^2, 1]$	$1T_1, (3T_1^{+*})^2$	$7T_3^{+*}$	21	$[7, 3, 1^5]$
[6, 1]	$1T_1, 6T_1^*$	$7T_{4}^{*}$	42	$[7, 6, 1^5]$
[6, 1]	$1T_1, 6T_7^{+*}$	$7T_{5}^{+}$	168	$[7, 6, 4, 1^4]$
[6, 1]	$1T_1, 6T_{15}^+$	$7T_6^+$	7! / 2	$[7,\ldots,3,1^2]$
[6, 1]	$1T_1, 6T_{16}$	$7T_7$	7!	$[7,\ldots,1]$
G: Possibl	le Galois Groups, D	Q(G): Deg	rees of fa	ctors, $S(G)$ : Galois Groups of factors, $\mathcal{L}(G)$ : Initial Degrees

Splitting table of degree 8

D(C)	S(C)	G	G	$\mathcal{L}(C)$
$ \begin{array}{ c c } \hline D(G) \\ \hline [1^8] \end{array} $	$\frac{S(G)}{(1T_1)^8}$		8	$ \begin{array}{ c c } \mathcal{L}(G) \\ \hline [8, 1^7] \end{array} $
[18]	$(1T_1)^8$	$8T_1^*$	8	[8, 17]
	$(1T_1)$	$8T_2^{+*}$ $8T_3^{+*}$	8	[8, 17]
$ \begin{array}{ c c } \hline [1^8] \\ \hline [1^8] \end{array} $	$(1T_1)^8$ $(1T_1)^8$	01 <sub>3</sub>	8	[8, 17]
[18]	$(1T_1)^8$	01 <sub>4</sub>	8	[8, 17]
	$(1T_1)^4$ $(2T_1)^2$	01 <sub>5</sub>	16	
$ \begin{array}{ c c } \hline [2^2, 1^4] \\ \hline [2^2, 1^4] \end{array} $	$(1T_1)^4$ , $(2T_1)^2$ $(1T_1)^4$ , $(2T_1)^2$	01 <sub>7</sub>	16	
$ \begin{array}{ c c } \hline [2^2, 1^4] \\ \hline [2^2, 1^4] \end{array} $	$(1T_1)^4, (2T_1)^2$ $(1T_1)^4, (2T_1)^2$	01 <sub>9</sub>		$ \begin{array}{c c} [8, 2, 1^6] \\ [8, 2, 1^6] \end{array} $
$[2^2, 1^4]$	$(1T_1)^4, (2T_1)^2$	01 <sub>10</sub>	16 16	$   \begin{bmatrix}     8, 2, 1^6 \\     8, 2, 1^6   \end{bmatrix} $
$[4, 1^4]$	(1/D)\A 4/D*	$\begin{array}{c} 8T_{4}^{+*} \\ 8T_{5}^{+*} \\ 8T_{5}^{*} \\ 8T_{7}^{*} \\ 8T_{10}^{+*} \\ 8T_{11}^{+*} \\ 8T_{11}^{+*} \\ 8T_{18}^{+*} \end{array}$		$\begin{bmatrix} 8, 4, 1^6 \end{bmatrix}$
$[4, 1^4]$ $[4, 1^4]$	$(1T_1)^4, 4T_1^*$	01 <sub>17</sub>	32	$\begin{bmatrix} [8, 4, 1] \\ [8, 4, 1^6] \end{bmatrix}$
	$(111)$ , $41_2$	01 <sub>18</sub>	32	
$ \begin{array}{ c c c } \hline [2^3, 1^2] \\ \hline [2^3, 1^2] \end{array} $	(111), $(211)$	8T*	16 16	$   \begin{bmatrix}     8, 2, 1^6 \\     \hline     8, 2, 1^6   \end{bmatrix} $
$ \begin{array}{ c c c } \hline [2^3, 1^2] \\ \hline [2^3, 1^2] \end{array} $	(111), $(211)(17.)^2 (27.)^3$	9T*		$[8, 2^2, 1^5]$
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	(111), $(211)$	9T+*	32 32	$   \begin{array}{c c}                                    $
$\begin{bmatrix} 2 & 1 \\ 2^3 & 1^2 \end{bmatrix}$	(111), $(211)$	8T*	32	$\begin{bmatrix} [8, 2^2, 1^5] \end{bmatrix}$
$[2^3, 1^2]$	$\begin{array}{c} (1T_1)^1, \ 4T_1^* \\ (1T_1)^4, \ 4T_2^{+*} \\ (1T_1)^2, \ (2T_1)^3 \\ \end{array}$	9T+*	32	$[8, 2^2, 1^5]$
$[2^3, 1^2]$	$(1T_1)^2, (2T_1)^3$	8T*	64	$[8, 2^3, 1^4]$
$[2^3, 1^2]$	$(1T_1)^2, (2T_1)^3$	8T*	64	$[8, 2^3, 1^4]$
$[4, 2, 1^2]$	$(1T_1)^2$ , $(2T_1)$ $(1T_1)^2$ , $2T_1$ , $4T_1^*$	8T <sup>+*</sup>	32	$[8, 2^2, 1^5]$
$[4, 2, 1]$ $[4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_1$ $(1T_1)^2$ , $2T_1$ , $4T_2^{+*}$	8T*	32	$[8, 4, 1^6]$
$[4, 2, 1]$ $[4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_2$ $(1T_1)^2$ , $2T_1$ , $4T_3^*$	8T*	64	$   \begin{bmatrix}     6, 4, 1 \\     \hline{8, 4, 2, 1}^{5}   \end{bmatrix} $
[4, 2, 1]	$(1T_1)^2$ , $2T_1$ , $4T_3$ $(1T_1)^2$ , $2T_1$ , $4T_3^*$	8T*.	64	$   \begin{bmatrix}     6, 4, 2, 1 \\     \hline     8, 4, 2, 1^5   \end{bmatrix} $
$[4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ $(1T_1)^2$ , $2T_1$ , $4T_3^*$	$\begin{array}{c} 8T_{8}^{*} \\ 8T_{8}^{*} \\ 8T_{16}^{*} \\ 8T_{20}^{*} \\ 8T_{21}^{*} \\ 8T_{21}^{*} \\ 8T_{21}^{*} \\ 8T_{21}^{*} \\ 8T_{13}^{*} \\ 8T_{19}^{*} \\ 8T_{15}^{*} \\ 8T_{26}^{*} \\ 8T_{28}^{*} \\ 8T_{29}^{*} \\ 8T_{30}^{*} \\ 8T_{12}^{*} \\ 8T_{13}^{*} \\ 8T_{14}^{*} \\ 8T_{24}^{*} \\ 8T_{23}^{*} \\ 8T_{38}^{*} \\ 8T_{38}^{*} \\ 8T_{39}^{*} \\ \end{array}$	64	$   \begin{bmatrix}     6, 4, 2, 1 \\     \hline{8, 4, 2, 1^5}   \end{bmatrix}   $
[4, 2, 1]	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ $(1T_1)^2$ , $2T_1$ , $4T_3^*$	$8T_{**}^{*}$	64	$   \begin{bmatrix}     6, & 4, & 2, & 1 \\     \hline     8, & 4, & 2, & 1^5   \end{bmatrix} $
$[4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $1T_3$ $(1T_1)^2$ , $2T_1$ , $4T_3^*$	8T*	128	$   \begin{bmatrix}     6, 4, 2^2, 1^4 \\     \hline     8, 4, 2^2, 1^4   \end{bmatrix} $
$[3^2, 1^2]$	$(1T_1)^2$ , $(3T_1^{+*})^2$	$8T_{-35}^{+*}$	24	$[8, 3, 1^6]$
$[3^2, 1^2]$	$(1T_1)^2$ , $(3T_1^{+*})^2$	$8T_{-2}^{+*}$	24	$[8, 3, 1^6]$
$[3^2, 1^2]$	$(1T_1)^2, (3T_1^{+*})^2$	$8T_{-}^{+*}$	24	$[8, 3, 1^6]$
$[3^2, 1^2]$	$(1T_1)^2, (3T_2^*)^2$	$8T_{**}^{+*}$	48	$[8, 3, 2, 1^5]$
$[6, 1^2]$	$(1T_1)^2, 6T_2^*$	$8T_{22}^{*}$	48	[8, 6, 1 <sup>6</sup> ]
$[6, 1^2]$	$(1T_1)^2$ , $6T_1^{+*}$	$8T_{23}^{+*}$	96	$[8, 6, 2, 1^5]$
$[6, 1^2]$	$(1T_1)^2$ , $6T_6^*$	$8T_{99}^{*}$	192	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[6, 1^2]$	$(1T_1)^2, 6T_7^{+*}$	$8T_{20}^{+*}$	192	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[6, 1^2]$	$(1T_1)^2, 6T_8^*$	$8T_{40}^{*}$	192	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[6, 1^2]$	$(1T_1)^2$ , $6T_{11}^*$	$8T_{44}^{*}$	384	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
[4, 3, 1]	$1T_1, 3T_1^{+*}, 4T_4^{+*}$	$8T_{33}^{+*}$	96	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
[4, 3, 1]	$1T_1, 3T_1^{+*}, 4T_4^{+*}$	$8T_{34}^{+*}$	96	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
[4, 3, 1]	$1T_1, 3T_1^+, 4T_4^{+*}$	$8T_{42}^{+*}$	288	$\begin{bmatrix} [8, 4, 3^2, 1^4] \end{bmatrix}$
[4, 3, 1]	$1T_1, 3T_1^*, 4T_5^*$	$8T_{41}^{+*}$	192	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
[4, 3, 1]	$1T_1, 3T_2, 4T_5^*$ $1T_1, 3T_2^*, 4T_5^*$	$8T_{45}^{+*}$	576	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
[4, 3, 1]	$1T_1, 3T_2, 1T_5$ $1T_1, 3T_2^*, 4T_5^*$	$8T_{46}^{*}$	576	$   \begin{bmatrix}     6, & 4, & 3^2, & 2, & 1 \\     \hline     8, & 4, & 3^2, & 2, & 1^3   \end{bmatrix} $
[4, 3, 1]	$1T_1, 3T_2, 1T_5$ $1T_1, 3T_2^*, 4T_5^*$	$8T_{47}^{*}$	1152	$   \begin{bmatrix}     8, 4, 3^2, 2^2, 1^2   \end{bmatrix}   $
[7, 1]	$1T_1, \ 0T_2, \ T_5$ $1T_1, \ 7T_1^{+*}$	$8T_{25}^{+*}$	56	$[8, 7, 1^6]$
[7, 1]	$1T_1, T_1$ $1T_1, T_3^{+*}$	$8T_{36}^{+*}$	168	$[8, 7, 3, 1^5]$
		-		$G$ ): Galois Groups of factors, $\mathcal{L}(G)$ : Initial Degrees
G. 1 0381016	Carons Groups, D(G). Deg	5. CCO OI 18		o, caron croups of factors, $\mathcal{L}(G)$ . Initial Degrees

D(G)	S(G)	G	$\mid G \mid$	$\mathcal{L}(G)$
[7, 1]	$1T_1, 7T_3^{+*}$	$8T_{37}^{+}$	168	$[8, 7, 3, 1^5]$
[7, 1]	$1T_1, 7T_4^*$	$8T_{43}$	336	$[8, 7, 6, 1^5]$
[7, 1]	$1T_1, 7T_5^+$	$8T_{48}^{+}$	1344	$[8, 7, 6, 4, 1^4]$
[7, 1]	$1T_1, 7T_6^+$	$8T_{49}^{+}$	8! / 2	$[8, \ldots, 3, 1^2]$
[7, 1]	$1T_1, 7T_7$	$8T_{50}$	8!	$[8,\ldots,1]$
G: Possible	Galois Groups $D(G)$ : De	rees of fa	actors S(	$G$ ): Galois Groups of factors $\mathcal{L}(G)$ : Initial Degrees

Splitting table of degree 9

D/(0)	(a)		101	0(0)
D(G)	S(G)	G	G	$\mathcal{L}(G)$
[19]	$(1T_1)^9$	$9T_1^{+*}$	9	$[9, 1^8]$
$[1^9]$	$(1T_1)^9$	$9T_2^{+*}$	9	[9, 18]
$[2^3, 1^3]$	$(1T_1)^3$ , $(2T_1)^3$	$9T_4^*$	18	$[9, 2, 1^7]$
$[3^2, 1^3]$	$(1T_1)^3, (3T_1^{+*})^2$	$9T_6^{+*}$	27	$[9, 3, 1^7]$
$[3^2, 1^3]$	$(1T_1)^3$ , $(3T_1^{+*})^2$	$9T_7^{+*}$	27	$[9, 3, 1^7]$
$[3^2, 1^3]$	$(1T_1)^3$ , $(3T_1^{+*})^2$	$9T_{17}^{+*}$	81	$[9, 3^2, 1^6]$
$[6, 1^3]$	$(1T_1)^3, 6T_2^*$	$9T_{12}^*$	54	$[9, 6, 1^7]$
$[6, 1^3]$	$(1T_1)^3, 6T_5^*$	$9T_{20}^{*}$	162	$[9, 6, 3, 1^6]$
$[2^4, 1]$	$1T_1, (2T_1)^4$	$9T_3^{+*}$	18	$[9, 2, 1^7]$
$[2^4, 1]$	$1T_1, (2T_1)^4$	$9T_5^{+*}$	18	$[9, 2, 1^7]$
$[4, 2^2, 1]$	$1T_1, (2T_1)^2, 4T_2^{+*}$	$9T_{8}^{*}$	36	$[9, 2^2, 1^6]$
$[3^2, 2, 1]$	$1T_1, \ 2T_1, \ (3T_2^*)^2$	$9T_{13}^{*}$	54	$[9, 3, 2, 1^6]$
$[3^2, 2, 1]$	$1T_1, 2T_1, (3T_2^*)^2$	$9T_{22}^{*}$	162	$[9, 3^2, 2, 1^5]$
$[3^2, 2, 1]$	$1T_1, 2T_1, (3T_2^*)^2$	$9T_{22}^*$ $9T_{25}^{+*}$	324	$[9, 3^2, 2^2, 1^4]$
$[3^2, 2, 1]$	$1T_1, 2T_1, (3T_2^*)^2$	$9T_{28}^{*}$	648	$[9, 3^2, 2^3, 1^3]$
[6, 2, 1]	$1T_1, 2T_1, 6T_1^*$	$9T_{28}^*$ $9T_{10}^{+*}$	54	$[9, 6, 1^7]$
[6, 2, 1]	$1T_1, 2T_1, 6T_1^*$	$9T_{11}^{+*}$	54	$[9, 3, 2, 1^6]$
[6, 2, 1]	$1T_1, 2T_1, 6T_3^*$	$9T_{18}^*$	108	$[9, 6, 2, 1^6]$
[6, 2, 1]	$1T_1, 2T_1, 6T_5^*$	$9T_{21}^{+*}$	162	$[9, 3^2, 2, 1^5]$
[6, 2, 1]	$1T_1, 2T_1, 6T_9^*$	$9T_{24}^{*}$	324	$[9, 6, 3, 2, 1^5]$
[6, 2, 1]	$1T_1, 2T_1, 6T_{13}^*$	$9T_{29}^{*}$	648	$[9, 6, 3, 2^2, 1^4]$
[6, 2, 1]	$1T_1, 2T_1, 6T_{13}^*$	$9T_{30}^{+*}$	648	$[9, 6, 3, 2^2, 1^4]$
[6, 2, 1]	$1T_1, 2T_1, 6T_{13}^*$	$9T_{31}^*$	1296	$[9, 6, 3, 2^3, 1^3]$
$[4^2, 1]$	$1T_1, (4T_1^*)^2$	$9T_9^{+*}$	36	$[9, 4, 1^7]$
$[4^2, 1]$	$1T_1, (4T_3^*)^2$	$9T_{16}^*$	72	$[9, 4, 2, 1^6]$
[8, 1]	$1T_1, 8T_1^*$	$9T_{15}^*$	72	[9, 8, 1 <sup>7</sup> ]
[8, 1]	$1T_1, 8T_5^{+*}$	$9T_{14}^{+*}$	72	[9, 8, 1 <sup>7</sup> ]
[8, 1]	$1T_1, 8T_8^*$	$9T_{19}^*$	144	$[9, 8, 2, 1^6]$
[8, 1]	$1T_1, 8T_{12}^{+*}$	$9T_{23}^{+*}$	216	$[9, 8, 3, 1^6]$
[8, 1]	$1T_1, 8T_{12}$ $1T_1, 8T_{23}^*$	$9T_{26}^*$	432	$[9, 8, 6, 1^6]$
[8, 1]	$1T_1, 8T_{25}^{+*}$	$9T_{27}^{+}$	504	$[9, 8, 7, 1^6]$
[8, 1]	$1T_1, 8T_{36}^{+*}$	$9T_{32}^{+}$	1512	$[9, 8, 7, 3, 1^5]$
[8, 1]	$1T_1, 8T_{36}$ $1T_1, 8T_{49}^+$	$9T_{33}^{+}$	$\frac{1312}{9!/2}$	$[9, \ldots, 3, 1^2]$
[8, 1]	$1T_1, 8T_{49}$ $1T_1, 8T_{50}$	$9T_{34}$	9! 9!	$[9,\ldots,3,1]$
<del></del>				$[\mathcal{G}, \ldots, 1]$ $G$ ): Galois Groups of factors, $\mathcal{L}(G)$ : Initial Degrees
G. Fossible	Gaiois Groups, $D(G)$ : Deg	grees or ra	ciors, D(C	$\sigma_j$ . Galois Groups of factors, $\mathcal{L}(G)$ . Hittal Degrees

Splitting table of degree 10

D(G)	S(G)	G	$\mid G \mid$	$\mathcal{L}(G)$
$[1^{10}]$	$(1T_1)^{10}$	$10T_1^*$	10	$[10, 1^9]$
[1 <sup>10</sup> ]	$(1T_1)^{10}$	$10T_{2}^{*}$	10	$[10, 1^9]$
$[5, 1^5]$	$(1T_1)^5$ , $5T_1^{+*}$	$10T_{6}^{*}$	50	$[10, 5, 1^8]$
$[2^4, 1^2]$	$(1T_1)^2$ , $(2T_1)^4$	$10T_{3}^{*}$	20	$[10, 2, 1^8]$
$[2^4, 1^2]$	$(1T_1)^2$ , $(2T_1)^4$	$10T_4^*$ $10T_8^{+*}$	20	$[10, 2, 1^8]$
$[2^4, 1^2]$	$(1T_1)^2, (2T_1)^4$	$10T_{\circ}^{+*}$	80	$[10, 2^3, 1^6]$
$[2^4, 1^2]$	$(1T_1)^2$ , $(2T_1)^4$	$10T_{14}^*$	160	$[10, 2^4, 1^5]$
$[4^2, 1^2]$	$(1T_1)^2 (4T_1^*)^2$	$10T_{5}^{*}$	40	$[10, 4, 1^8]$
$[4^2, 1^2]$	$(1T_1)^2, (4T_3^*)^2$	$10T_{15}^{+*}$	160	$[10, 4, 2^2, 1^6]$
$[4^2, 1^2]$	$(1T_1)^2, (4T_3^*)^2$	$10T_{16}^*$	160	$[10, 4, 2^2, 1^6]$
$[4^2, 1^2]$	$(1T_1)^2, (4T_2^*)^2$	$10T_{23}^*$	320	$[10, 4, 2^3, 1^5]$
$[4^2, 1^2]$	$(1T_1)^2, (4T_4^{+*})^2$	$10T_{11}$	120	$[10, 4, 3, 1^7]$
$[4^2, 1^2]$	$(1T_1)^2$ , $(4T_4^{+*})^2$	$10T_{12}$	120	$[10, 4, 3, 1^7]$
$[4^2, 1^2]$	$(1T_1)^2$ , $(4T_5^*)^2$	$10T_{22}$	240	$[10, 4, 3, 2, 1^6]$
$[8, 1^2]$	$(1T_1)^2$ , $8T_{16}^*$	$10T_{25}^*$	320	$[10, 8, 2^2, 1^6]$
$[8, 1^2]$	$(1T_1)^2$ , $8T_{20}^{+*}$	$10T_{24}^{+*}$	320	$[10, 8, 2^2, 1^6]$
$[8, 1^2]$	$(1T_1)^2$ , $8T_{27}^*$ $(1T_1)^2$ , $8T_{32}^{+*}$	$10T_{29}^*$	640	$[10, 8, 2^3, 1^5]$
$[8, 1^2]$	$(1T_1)^2, 8T_{32}^{+*}$	$10T_{29}^*$ $10T_{34}^+$	960	$[10, 8, 6, 2, 1^6]$
$[8, 1^2]$	$\begin{array}{c} (17)^{2} & 32 \\ (1T_{1})^{2}, & 8T_{38}^{*} \\ (1T_{1})^{2}, & 8T_{39}^{+*} \\ (1T_{1})^{2}, & 8T_{40}^{*} \end{array}$	$10T_{36}$	1920	$[10, 8, 6, 2^2, 1^5]$
$[8, 1^2]$	$(1T_1)^2$ , $8T_{39}^{+*}$	$10T_{37}^+$	1920	$[10, 8, 6, 4, 1^6]$
$[8, 1^2]$	$(1T_1)^2, 8T_{40}^*$	$10T_{38}$	1920	$[10, 8, 6, 4, 1^6]$
$[8, 1^2]$	$(1T_1)^2$ , $8T_{44}^*$	$10T_{39}$	3840	$[10, 8, 6, 4, 2, 1^5]$
$[5, 2^2, 1]$	$1T_1, (2T_1)^2, 5T_2^{+*}$	$10T_{9}^{*}$	100	$[10, 5, 2, 1^7]$
$[5, 2^2, 1]$	$1T_1, (2T_1)^2, 5T_2^{+*}$ $1T_1, (2T_1)^2, 5T_2^{+*}$	$10T_{10}^*$	100	$[10, 5, 2, 1^7]$
$[5, 2^2, 1]$	$1T_1, (2T_1)^2, 5T_2^{+*}$	$10T_{21}^*$	200	$[10, 5, 2^2, 1^6]$
[6, 3, 1]	$1T_1, 3T_2^*, 6T_2^*$	$10T_{7}^{+}$	60	$[10, 6, 1^8]$
[6, 3, 1]	$1T_1, 3T_2^*, 6T_3^*$	$10T_{13}$	120	$[10, 6, 2, 1^7]$
[5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*$	$10T_{17}^*$	200	$[10, 5, 4, 1^7]$
[5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*$	$10T_{18}^{+*}$	200	$[10, 5, 4, 1^7]$
[5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*$	$10T_{19}^*$	200	$[10, 5, 4, 1^7]$
[5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*$	$10T_{20}^*$	200	$[10, 5, 4, 1^7]$
[5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*$	$   \begin{array}{c}     26 \\     10T_{27}^* \\     10T_{28}^{+*} \\     10T_{33}^*   \end{array} $	400	$[10, 5, 4, 2, 1^6]$
[5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*$	$10T_{28}^{+*}$	400	$[10, 5, 4, 2, 1^6]$
[5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*$	$10T_{33}^*$	800	$[10, 5, 4^2, 1^6]$
[5, 4, 1]	$1T_1, 4T_4^{+*}, 5T_4^{+}$	$10T_{40}$	7200	$[10, 5, 4^2, 3^2, 1^4]$
[5, 4, 1]	$1T_1, 4T_5^*, 5T_5$	$10T_{41}$	14400	$[10, 5, 4^2, 3^2, 2, 1^3]$
[5, 4, 1]	$1T_1, 4T_5^*, 5T_5$	$10T_{42}^{+}$	14400	$[10, 5, 4^2, 3^2, 2, 1^3]$
[5, 4, 1]	$1T_1, 4T_5^*, 5T_5$	$10T_{43}$	28800	$[10, 5, 4^2, 3^2, 2^2, 1^2]$
[9, 1]	$1T_1, 9T_9^{+*}$	$10T_{26}^+$	360	$[10, 9, 4, 1^7]$
[9, 1]	$1T_1, 9T_{14}^{+*}$	$10T_{31}^{+}$	720	$[10, 9, 8, 1^7]$
[9, 1]	$1T_1, 9T_{15}^*$	$10T_{30}$	720	$[10, 9, 8, 1^7]$
[9, 1]	$1T_1, 9T_{16}^*$	$10T_{32}$	720	$[10, 9, 4, 2, 1^6]$
[9, 1]	$1T_1, 9T_{19}^*$	$10T_{35}$	1440	$[10, 9, 8, 2, 1^6]$
[9, 1]	$1T_1, 9T_{33}^+$	$10T_{44}^{+}$	10! / 2	$[10, \ldots, 3, 1^2]$
[9, 1]	$1T_1, 9T_{34}$	$10T_{45}$	10!	$[10, \ldots, 1]$
G: Possible	Galois Groups, $D(G)$ : Deg	grees of fac	tors, $\overline{S(G)}$ :	: Galois Groups of factors, $\mathcal{L}(G)$ : Initial Degrees

D(G)	S(G)	G	$\mid G \mid$	$\mathcal{L}(G)$
$[1^{11}]$	$(1T_1)^{11}$	$11T_1^{+*}$	11	$[11, 1^{10}]$
$[2^5, 1]$	$1T_1, (2T_1)^5$	$11T_{2}^{*}$	22	$[11, 2, 1^9]$
$[5^2, 1]$	$1T_1, (5T_1^{+*})^2$	$11T_3^{+*}$	55	$[11, 5, 1^9]$
[10, 1]	$1T_1, 10T_1^*$	$11T_4^*$	110	$[11, 10, 1^9]$
[10, 1]	$1T_1, 10T_7^+$	$11T_5^+$	660	$[11, 10, 6, 1^8]$
[10, 1]	$1T_1, 10T_{31}^+$	$11T_{6}^{+}$	7920	$[11, 10, 9, 8, 1^7]$
[10, 1]	$1T_1, 10T_{44}^+$	$11T_{7}^{+}$	11! / 2	$[11, \ldots, 3, 1^2]$
[10, 1]	$1T_1, 10T_{45}$	$11T_8$	11!	$[11,\ldots,1]$
G: Possibl	le Galois Groups, D	(G): Degree	es of facto	ors, $S(G)$ : Galois Groups of factors, $\mathcal{L}(G)$ : Initial Degrees

Splitting table of degree 12

D(G)	S(G)	G   G	$\mathcal{L}(G)$
$[1^{12}]$	$(1T_1)^{12}$		$[12, 1^{11}]$
$\begin{bmatrix} 1^{12} \end{bmatrix}$	$ \begin{array}{c} (1T_1)^{12} \\ (1T_1)^{12} \\ (1T_1)^{12} \\ (1T_1)^{12} \\ (1T_1)^{12} \end{array} $	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$[12, 1^{11}]$
$\begin{bmatrix} 1 \\ 1^{12} \end{bmatrix}$	$(1T_1)^{12}$	$12T_{3}^{2}$ $12$	$ \begin{array}{c} [12, 1^{11}] \\ [12, 1^{11}] \end{array} $
$\begin{bmatrix} 1^{12} \end{bmatrix}$	$(1T_1)^{12}$	$12T_4^{-}$ 12	$[12, 1^{11}]$
$1^{12}$	$(1T_1)^{12}$	$12T_{5}^{*}$ 12	$[12, 1^{11}]$
$[2^3, 1^6]$	$(1T_1)^6$ , $(2T_1)^3$	$12T_{5}^{*}$ $12$	$[12, 1]$ $[12, 2, 1^{10}]$
$[2^3, 1^6]$	$ (1T_1)^6, (2T_1)^3  (1T_1)^6, (2T_1)^3 $	$12T_{14}$ 24 $12T_{15}^*$ 24	$     \begin{bmatrix}       12, 2, 1 \\       \hline       12, 2, 1^{10}     \end{bmatrix}   $
$[3^2, 1^6]$	$(17_1)^6, (27_1)$	$12T_{15}$ $24$ $12T_{16}^{+*}$ $36$	[12, 2, 1]
$[3^2, 1^6]$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$12T_{16}   36$ $12T_{17}^*   36$	$ \begin{array}{c} [12, 3, 1^{10}] \\ [12, 3, 1^{10}] \end{array} $
$[3^2, 1^6]$	$(1T_1)^6, (3T_1^{+*})^2$	$12T_{17} - 36$ $12T_{18}^{+*} - 36$	$     \begin{bmatrix}         [12, 3, 1^{10}] \\         [12, 3, 1^{10}] \\         [12, 3, 1^{10}] \\         [12, 3, 1^{10}]     \end{bmatrix} $
$[3^2, 1^6]$	$ \begin{array}{c} (1T_1)^6, (3T_1^{+*})^2 \\ (1T_1)^6, (3T_1^{+*})^2 \\ (1T_1)^6, (3T_1^{+*})^2 \end{array} $	$12T_{18}   36$ $12T_{19}^*   36$	[12, 3, 1]
$[6, 1^6]$	$\begin{array}{c} (1T_1)^{+}, (2T_1)^{+}\\ (1T_1)^{6}, (3T_1^{+*})^2\\ (1T_1)^{6}, 6T_1^*\\ (1T_1)^{6}, 6T_2^*\\ (1T_1)^{4}, (2T_1)^{4}\\ (1T_1)^{4}, (2T_1)^{4}\\ \end{array}$	$12T_{19}   30$ $12T_{42}^*   72$	$ \begin{array}{c} [12, 3, 1^{10}] \\ [12, 3, 1^{10}] \\ [12, 6, 1^{10}] \end{array} $
[6, 16]	$ \begin{array}{c cccc} (1T_1)^6, & 6T_1^* \\ \hline (1T_1)^6, & 6T_2^* \\ \hline \end{array} $	$12T_{42}$ $72$ $12T_{35}^*$ $72$	[12, 0, 1]
$[6, 1^6]$	$(1I_1)^4, 0I_2$	12135 12	$ \begin{array}{c} [12, 6, 1^{10}] \\ [12, 2, 1^{10}] \\ [12, 2, 1^{10}] \end{array} $
$ \begin{array}{c c} \hline [2^4, 1^4] \\ \hline [2^4, 1^4] \end{array} $	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$12T_6^{+*}$ 24	$ \begin{array}{c cccc} [12, 2, 1^{10}] \\ [12, 2, 1^{10}] \end{array} $
$[2^4, 1^4]$	$(1I_1)^4$ , $(2I_1)^4$	$12T_7^{+*}$ 24	
$[2^4, 1^4]$	$(1I_1)^4, (2I_1)^4$	$12T_9^{+*}$ 24	$ \begin{array}{c} [12, 2, 1^{10}] \\ [12, 2, 1^{10}] \end{array} $
$[2^4, 1^4]$	$(1T_1)^4, (2T_1)^4$	$12T_{10}^{+*}$ 24	$[12, 2, 1^{10}]$
$[2^4, 1^4]$	$(1T_1)^4$ , $(2T_1)^4$	$12T_{11}^*$ 24	$[12, 2, 1^{10}]$
$[2^4, 1^4]$	$(1T_1)^4$ , $(2T_1)^4$	$12T_{21}^{+*}$ 48	$[12, 2^2, 1^9]$
$[2^4, 1^4]$	$(1T_1)^4$ , $(2T_1)^4$	$12T_{25}^{+*}$ 48	$[12, 2^2, 1^9]$
$[2^4, 1^4]$	$(1T_1)^4$ , $(2T_1)^4$	$12T_{29}^*$ 48	$[12, 2^2, 1^9]$
$[2^4, 1^4]$	$(1T_1)^4$ , $(2T_1)^4$	$12T_{30}^*$ 48	$ \begin{array}{c cccc}                                 $
$[4^2, 1^4]$	$(1I_1)^2, (4I_1)^2$	$12T_{24}^{+*}$ 48	$[12, 4, 1^{10}]$
$[4^2, 1^4]$	$(1T_1)^4$ , $(4T_1^*)^2$	$12T_{31}^{+*}$ 48	$[12, 4, 1^{10}]$
$[4^2, 1^4]$	$\begin{array}{c} (1T_1), (4T_1) \\ (1T_1)^4, (4T_1^*)^2 \\ (1T_1)^4, (4T_1^*)^2 \\ (1T_1)^4, (4T_2^{+*})^2 \\ (1T_1)^4, (4T_3^{+*})^2 \\ (1T_1)^4, (4T_3^*)^2 \\ (1T_1)^4, (4T_3^*)^2 \\ \end{array}$	$12T_{55}^{+*}$ 96	$ \begin{array}{c cccc}                                 $
$[4^2, 1^4]$	$(1T_1)^4$ , $(4T_1^*)^2$	$12T_{94}^*$ 192	$ \begin{array}{c} [12, 4^2, 1^9] \\ [12, 4, 1^{10}] \end{array} $
$[4^2, 1^4]$	$(1T_1)^4$ , $(4T_2^{+*})^2$	$12T_{23}^{+*}$ 48	$[12, 4, 1^{10}]$
$[4^2, 1^4]$	$(1T_1)^4$ , $(4T_2^{+*})^2$	$12T_{26}^{+*}$ 48	$[12, 4, 1^{10}]$
$[4^2, 1^4]$	$(1T_1)^4, (4T_2^{+*})^2$	$12T_{32}^{+*}$ 48	$[12, 4, 1^{10}]$
$[4^2, 1^4]$	$(1T_1)^4$ , $(4T_2^{+*})^2$	$12T_{56}^{+*}$ 96	$[12, 4, 2, 1^9]$
$[4^2, 1^4]$	$(1T_1)^4$ , $(4T_2^{+*})^2$	$12T_{90}^{+*}$ 192	$[12, 4^2, 1^9]$
$[4^2, 1^4]$	$(1T_1)^4$ , $(4T_3^*)^2$	$12T_{48}^{+*}$ 96	$ \begin{array}{c} [12, 4^2, 1^9] \\ [12, 4, 2, 1^9] \\ [12, 4, 2, 1^9] \\ [12, 8, 1^{10}] \end{array} $
$[4^2, 1^4]$	(111), $(413)$	$12T_{53}^*$ 96	$[12, 4, 2, 1^9]$
$     \begin{bmatrix}       4^2, 1^4 \\       \hline       8, 1^4     \end{bmatrix}   $	$(1T_1)^4$ , $8T_2^{+*}$	$12T_{68}^{+*}$ 96	$[12, 8, 1^{10}]$
$[8, 1^4]$	$(1T_1)^4, 8T_3^{+*}$	12167 90	$[12, 8, 1^{10}]$
$[8, 1^4]$	$(1T_1)^4$ , $8T_4^{+*}$	$12T_{62}^{+*}$ 96	$[12, 8, 1^{10}]$
$[8, 1^4]$	$(1T_1)^4$ , $8T_5^{+*}$	$12T_{63}^{+*}$ 96	$[12, 8, 1^{10}]$
$[8, 1^4]$	$(1T_1)^4, 8T_7^*$	$12T_{98}^*$ 192	$[12, 8, 2, 1^9]$
$[8, 1^4]$	$(1T_1)^4$ , $8T_9^{+*}$	$12T_{101}^{+*}$ 192	$[12, 8, 2, 1^9]$
$[8, 1^4]$	$(1T_1)^4, 8T_{10}^{+*}$	$12T_{103}^{+*}$ 192	$[12, 8, 2, 1^9]$
$[8, 1^4]$	$(1T_1)^4$ , $8T_{11}^{+*}$	$12T_{95}^{+*}$ 192	$[12, 8, 2, 1^9]$
$[8, 1^4]$	$(1T_1)^4$ , $8T_{17}^*$	$12T_{150}^*$ 384	$[12, 8, 4, 1^9]$
$[8, 1^4]$	$(1T_1)^4$ , $8T_{18}^{+*}$	$12T_{139}^{+*}$ 384	$[12, 8, 4, 1^9]$
$[3^3, 1^3]$	$(1T_1)^3, (3T_1^{+*})^3$	$12T_{20}^{+*}$ 36	$[12, 3, 1^{10}]$
$[3^3, 1^3]$	$(1T_1)^3, (3T_1^{+*})^3$	$12T_{70}^{+*}$ 108	$[12, 3^2, 1^9]$
-	1 , , , , , , , , , , , , , , , , , , ,		Froups of factors, $\mathcal{L}(G)$ : Initial Degrees

Splitting table of degree 12

D(G)	S(G)	G	$\mid G \mid$	$\mathcal{L}(G)$
$[3^3, 1^3]$	$(1T_1)^3$ , $(3T_1^{+*})^3$	$12T_{71}^{+*}$	108	$[12, 3^2, 1^9]$
$[3^3, 1^3]$	$(1T_1)^3$ , $(3T_1^{+*})^3$	$12T_{72}^*$	108	$[12, 3^2, 1^9]$
$[3^3, 1^3]$	$(1T_1)^3$ , $(3T_1^{+*})^3$	$12T_{72}^*$	108	$[12, 3^2, 1^9]$
$[3^3, 1^3]$	$(1T_1)^3$ , $(3T_1^{+*})^3$	$12T_{199}^{+*}$	324	$[12, 3^3, 1^8]$
$[3^3, 1^3]$		12T*	324	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[3^3, 1^3]$	(17, 3, (31, 3))	12T 131 12T*	72	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[6, 3, 1^3]$	(17), $(312)$	12T <sub>45</sub>	216	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
[6, 3, 1]	$(111)$ , $31_1$ , $01_5$	12T 116		
$[6, 3, 1^3]$	$(111)$ , $31_1$ , $01_5$	121 <sub>121</sub>	216	$[12, 6, 3, 1^9]$
$[6, 3, 1^3]$	$(1I_1)^{\circ}, 3I_1^{\circ}, 6I_5^{\circ}$	121 167	648	$[12, 6, 3^2, 1^8]$
$[9, 1^3]$	$(1T_1)^3, 9T_6$	121 132	324	$[12, 9, 3, 1^9]$
$[9, 1^3]$	$(1T_1)^3, 9T_7^*$	$12T_{133}^{+\pi}$	324	$[12, 9, 3, 1^9]$
$[9, 1^3]$	$(1T_1)^3, 9T_{12}^*$	$12T_{175}^*$	648	$[12, 9, 6, 1^9]$
$[9, 1^3]$	$\begin{array}{c} (1T_1)^3, (3T_1^{+*})^3 \\ (1T_1)^3, (3T_2^*)^3 \\ (1T_1)^3, 3T_1^{+*}, 6T_5^* \\ (1T_1)^3, 3T_1^{+*}, 6T_5^* \\ (1T_1)^3, 3T_1^{+*}, 6T_5^* \\ (1T_1)^3, 9T_0^{+*} \\ (1T_1)^3, 9T_1^{+*} \\ (1T_1)^3, 9T_{12}^{+*} \\ (1T_1)^3, 9T_{12}^{+*} \\ (1T_1)^3, 9T_{17}^{+*} \\ (1T_1)^3, 9T_{20}^{+*} \\ (1T_1)^3, 9T_{20}^{+*} \\ (1T_1)^2, (2T_1)^5 \end{array}$	$12T_{194}^{+*}$	972	$[12, 9, 3^2, 1^8]$
$[9, 1^3]$	$(1T_1)^3, 9T_{20}^*$	$12T_{231}^*$	1944	$[12, 9, 6, 3, 1^8]$
$[2^5, 1^2]$	(±±1) ; ( <b>=</b> ±1)	$\begin{array}{c} 12T^*_{73} \\ 12T^{+*}_{130} \\ 12T^*_{131} \\ 12T^*_{45} \\ 12T^*_{116} \\ 12T^*_{121} \\ 12T^*_{132} \\ 12T^{+*}_{132} \\ 12T^{+*}_{133} \\ 12T^*_{231} \\ 12T^*_{231} \\ 12T^*_{231} \\ 12T^*_{13} \\ 12T^*$	24	$[12, 2, 1^{10}]$
$[2^5, 1^2]$	$(1T_1)^2$ , $(2T_1)^5$	$12T_{12}^*$	24	$[12, 2, 1^{10}]$
$[2^5, 1^2]$	$(1T_1)^2, (2T_1)^5$	$12T_{13}^*$	24	$[12, 2, 1^{10}]$
$[2^5, 1^2]$	$(1T_1)^2, (2T_1)^5$	$12T_{50}^*$	96	$[12, 2^3, 1^8]$
$[2^5, 1^2]$	$(1T_1)^2, (2T_1)^5$	$12T_{51}^*$	96	$[12, 2^3, 1^8]$
$[2^5, 1^2]$	$(1T_1)^2, (2T_1)^5$	$12T_{58}^{+*}$	96	$[12, 2^3, 1^8]$
$[2^5, 1^2]$	$(1T_1)^2$ , $(2T_1)^5$	$12T_{69}^{+*}$	96	$[12, 2^3, 1^8]$
$[2^5, 1^2]$	$(1T_1)^2, (2T_1)^5$	$12T_{27}^{+*}$	192	$[12, 2^4, 1^7]$
$[2^5, 1^2]$	$(1T_1)^2, (2T_1)^5$	$12T_{105}^*$	192	$[12, 2^4, 1^7]$
$[2^5, 1^2]$	$(1T_1)^2$ , $(2T_1)^5$	$12T_{10c}^{+*}$	192	$[12, 2^4, 1^7]$
$[2^5, 1^2]$	$(1T_1)^2$ , $(2T_1)^5$	$\begin{array}{c} 12T_{69}^{+*} \\ 12T_{87}^{+*} \\ 12T_{87}^{**} \\ 12T_{105}^{**} \\ 12T_{106}^{+*} \\ 12T_{134}^{**} \\ 12T_{35}^{**} \\ 12T_{28}^{+*} \\ 12T_{37}^{+*} \\ 12T_{39}^{+*} \end{array}$	192	$[12 \ 2^4 \ 1^7]$
$[2^5, 1^2]$	$(1T_1)^2, (2T_1)^5$	$12T_{104}^*$	384	$[12, 2^5, 1^6]$
$[2^5, 1^2]$	$(1T_1)^2, (2T_1)^5$	$12T_{105}^*$	384	$[12, 2^5, 1^6]$
$[4, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $4T_2^{+*}$	12T <sub>135</sub>	48	$[12, 4, 1^{10}]$
$[3^2, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $(3T_2^*)^2$	$12T_{28}$ $12T^{+*}$	72	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[3^2, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $(3T_2)^2$	12T 34 12T+*	72	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$\begin{bmatrix} 3^2, 2^2, 1^2 \end{bmatrix}$	$(1T_1)^*, (2T_1)^*, (3T_2)^*$ $(1T_1)^2, (2T_1)^2, (3T_2^*)^2$	12137 12T*	72	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[3^2, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $(3T_2^*)^2$	121 <sub>39</sub>	72	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$\begin{bmatrix} 3, 2, 1 \\ 3^2, 2^2, 1^2 \end{bmatrix}$	$(1T_1)^2$ , $(2T_1)^2$ , $(3T_2^*)^2$	$ \begin{array}{c} 33 \\ 12T_{40}^{+*} \\ 12T_{41}^{*} \end{array} $		$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
	$(1T_1)^2$ , $(2T_1)^2$ , $(3T_2^*)^2$	12141	72	
$[3^2, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $(3T_2^*)^2$	$12T_{77}^{+*}$	144	$[12, 3, 2^2, 1^8]$
$[3^2, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $(3T_2^*)^2$	12T*	144	$[12, 3, 2^2, 1^8]$
$[6, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $6T_1^*$	12T**	72	$[12, 6, 1^{10}]$
$[6, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $6T_2^*$	12T**	72	$[12, 6, 1^{10}]$
$[6, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $6T_3^*$	$12T_{78}^*$	144	$[12, 6, 2, 1^9]$
$[6, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $6T_3^*$	$12T_{80}^*$	144	$[12, 6, 2, 1^9]$
$[6, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $6T_3^*$	$12T_{81}^*$	144	$[12, 6, 2, 1^9]$
$[6, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $6T_3^*$	$12T_{82}^*$	144	$[12, 6, 2, 1^9]$
$[6, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $6T_3^*$	$12T_{125}^*$	288	$[12, 6, 2^2, 1^8]$
$[6, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $6T_4^{+*}$	$12T_{126}^{+*}$	288	$[12, 6, 2^2, 1^8]$
$[6, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $6T_6^*$	$12T_{158}^{+*}$	576	$[12, 6, 2^3, 1^7]$
$[6, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $6T_6^*$	$12T_{159}^*$	576	$[12, 6, 2^3, 1^7]$
G: Possible Ga	·		): Galois Gro	oups of factors, $\mathcal{L}(G)$ : Initial Degrees

Splitting table of degree 12

D(C)	G(G)		101	C(C)							
D(G)	S(G)	G	G	$\mathcal{L}(G)$							
$[6, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $6T_6^*$	$12T_{208}^*$	1152	$[12, 6, 2^4, 1^6]$							
$[4^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_1^*)^2$	$12T_{27}^*$	48	$[12, 4, 1^{10}]$							
$[4^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_1^*$ , $4T_2^{+*}$	$12T_{57}^{+*}$	96	$[12, 2^3, 1^8]$							
$[4^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_1^*$ , $4T_3^*$	$12T_{91}^{+*}$	192	$[12, 2^4, 1^7]$							
$[4^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_1^*$ , $4T_3^*$	$12T_{108}^{+*}$	192	$[12, 4, 2^2, 1^8]$							
$[4^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_2^{+*})^2$	$12T_{22}^*$	48	$[12, 4, 1^{10}]$							
$[4^2, 2, 1^2]$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$12T_{104}^*$	192	$[12, 2^4, 1^7]$							
$[4^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_2^{+*}$ , $4T_3^*$	$12T_{109}^{+*}$	192	$[12, 4, 2^2, 1^8]$							
$[4^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^2$	$12T_{52}^*$	96	$[12, 4, 2, 1^9]$							
$[4^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^2$	$12T_{54}^{*}$	96	$[12, 2^3, 1^8]$							
$[4^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^2$	$12T_{59}^{*}$	96	$[12, 4, 2, 1^9]$							
$[4^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^2$	$12T_{60}^{+*}$	96	$[12, 4, 2, 1^9]$							
$[4^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^2$	$12T_{61}^*$	96	$[12, 4, 2, 1^9]$							
$[4^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^2$	$12T_{86}^{*}$	192	$[12, 4, 2^2, 1^8]$							
$[4^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^2$	$12T_{88}^*$	192	$[12, 4, 2^2, 1^8]$							
$[4^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^2$	$12T_{89}^{+*}$	192	$[12, 4, 2^2, 1^8]$							
$[4^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(1T_3)^2$	$12T_{92}^*$	192	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$							
$[4^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3)^2$	$12T_{93}^*$ $12T_{93}^*$	192	$[12, 4, 2^2, 1^8]$							
$[4^2, 2, 1^2]$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	12T <sub>93</sub>	192	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$							
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$(1T_1)^2, 2T_1, (4T_3)$	$12T_{99}^{*}$ $12T_{136}^{+*}$	384	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$							
$[4^2, 2, 1]$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	12T <sub>136</sub>	384	[12, 4, 2, 1]							
	(111), $211$ , $(413)$	$12T^*_{141}$ $12T^*$	384	$ \begin{array}{c} [12, 4^2, 2, 1^8] \\ [12, 4^2, 2, 1^8] \end{array} $							
$[4^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^2$	$12T^*_{142}$	384	$\begin{bmatrix} 12, & 4 & , & 2, & 1 \\ 12, & 42 & 2, & 18 \end{bmatrix}$							
$[4^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^2$	$12T_{143}^*$		$[12, 4^2, 2, 1^8]$							
$[4^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^2$	$12T_{144}^{+*}$	384	$[12, 4, 2^3, 1^7]$							
$[4^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^2$	$12T_{145}^*$	384	$[12, 4, 2^3, 1^7]$							
$[4^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^2$	$12T_{154}^*$	384	$[12, 4, 2^3, 1^7]$							
$[4^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^2$	$12T_{155}^*$	384	$[12, 4, 2^3, 1^7]$							
$[4^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^2$	$12T_{187}^{+*}$	768	$[12, 4^2, 2^2, 1^7]$							
$[4^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^2$	$12T_{188}^*$	768	$[12, 4, 2^4, 1^6]$							
$[4^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^2$	$12T_{189}^*$	768	$[12, 4^2, 2^2, 1^7]$							
$[4^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^2$	$12T_{193}^*$	768	$[12, 4, 2^4, 1^6]$							
$[4^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^2$	$12T_{222}^*$	1536	$[12, 4^2, 2^3, 1^6]$							
$[8, 2, 1^2]$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$12T_{65}^{+*}$	96	$[12, 8, 1^{10}]$							
$[8, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $8T_2^{+*}$	$12T_{64}^*$	96	$[12, 8, 1^{10}]$							
$[8, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $8T_4^{+*}$	$12T_{49}^*$	96	$[12, 8, 1^{10}]$							
$[8, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $8T_4^{+*}$	$12T_{66}^*$	96	$[12, 8, 1^{10}]$							
$[8, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $8T_6^*$	$12T_{113}^{+*}$	192	$[12, 8, 2, 1^9]$							
$[8, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $8T_7^*$	$12T_{97}^{+*}$	192	$[12, 4, 2^2, 1^8]$							
$[8, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $8T_8^*$	$12T_{112}^{+*}$	192	$[12, 8, 2, 1^9]$							
$[8, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $8T_9^{+*}$	$12T_{100}^*$	192	$[12, 4, 2^2, 1^8]$							
$[8, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $8T_9^{+*}$	$12T_{110}^*$	192	$[12, 8, 2, 1^9]$							
$[8, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $8T_9^{+*}$	$12T_{110}^*$ $12T_{114}^*$	192	$[12, 8, 2, 1^9]$							
$[8, 2, 1^2]$	$(1T_1)^7$ , $2T_1$ , $8T_0^{+*}$	$12T_{114}$ $12T_{102}^*$	192	$[12, 4, 2^2, 1^8]$							
$[8, 2, 1^2]$	$(1T_1)^{7}, 2T_1, 8T_{10}^{10}$ $(1T_1)^{2}, 2T_1, 8T_{11}^{+*}$	$12T_{102}$ $12T_{96}^*$	192	$[12, 4, 2^2, 1^8]$							
$[8, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $8T_{11}^{+*}$ $(1T_1)^2$ , $2T_1$ , $8T_{11}^{+*}$	$12T_{96}^*$ $12T_{111}^*$	192	$[12, 4, 2, 1]$ $[12, 8, 2, 1^9]$							
-		1									
G: Possible Ga	nois Groups, $D(G)$ : Degrees of fa	ctors, $S(G)$	): Galois Gro	$G$ : Possible Galois Groups, $D(G)$ : Degrees of factors, $S(G)$ : Galois Groups of factors, $\mathcal{L}(G)$ : Initial Degrees							

Splitting table of degree 12

D(G)	S(G)	G	$\mid G \mid$	$\mathcal{L}(G)$
$[8, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $8T_{11}^{+*}$	$12T_{115}^*$	192	$[12, 8, 2, 1^9]$
$[8, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $8T_{15}^*$	$12T_{138}^{+*}$	384	$[12, 8, 2^2, 1^8]$
$[8, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $8T_{15}^*$	$12T_{147}^*$	384	$[12, 8, 2^2, 1^8]$
$[8, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $8T_{16}^*$	$12T_{149}^*$	384	$[12, 8, 2^2, 1^8]$
$[8, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $8T_{17}^*$	$12T^*_{151}$	384	$[12, 8, 4, 1^9]$
$[8, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $8T_{18}^{+*}$	$12T_{148}^*$	384	$[12, 8, 4, 1^9]$
$[8, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $8T_{19}^{+*}$	$12T^*_{152}$	384	$[12, 8, 2^2, 1^8]$
$[8, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $8T_{19}^{+*}$	$12T_{153}^*$	384	$[12, 8, 2^2, 1^8]$
$[8, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $8T_{20}^{+*}$	$12T_{146}^*$	384	$[12, 8, 2^2, 1^8]$
$[8, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $8T_{22}^{+*}$	$12T^*_{137}$	384	$[12, 8, 2^2, 1^8]$
$[8, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $8T_{22}^{+*}$ $(1T_1)^2$ , $2T_1$ , $8T_{22}^{+*}$	$12T_{140}^*$	384	$[12, 8, 2^2, 1^8]$
$[8, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $8T_{26}^*$	$12T_{185}^*  12T_{191}^{+*}$	768	$[12, 8, 4, 2, 1^8]$
$[8, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $8T_{27}^*$	$12T_{191}^{+*}$	768	$[12, 8, 2^3, 1^7]$
$[8, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $8T_{27}^*$	$12T_{192}^*$	768	$[12, 8, 2^3, 1^7]$
$[8, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $8T_{27}^*$	$12T_{224}^*$	1536	$[12, 8, 2^4, 1^6]$
$[8, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $8T_{29}^{+*}$	$12T_{186}^*$	768	$[12, 8, 4, 2, 1^8]$
$[8, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $8T_{31}^*$	$12T_{184}^{+*}$	768	$[12, 8, 2^3, 1^7]$
$[8, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $8T_{31}^*$	$12T_{190}^*$	768	$[12, 8, 2^3, 1^7]$
$[8, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $8T_{31}^*$	$12T_{227}^*$	1536	$[12, 8, 2^4, 1^6]$
$[8, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $8T_{35}^*$	$12T_{221}^*$	1536	$[12, 8, 4, 2^2, 1^7]$
$[8, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $8T_{35}^*$	$12T_{223}^*$	1536	$[12, 8, 4, 2^2, 1^7]$
$[8, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $8T_{35}^*$	$12T_{225}^*$	1536	$[12, 8, 4, 2^2, 1^7]$
$[8, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $8T_{35}^*$	$   \begin{array}{r}     12T_{225}^* \\     12T_{226}^{+*} \\     12T_{250}^{+*}   \end{array} $	1536	$[12, 8, 4, 2^2, 1^7]$
$[8, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $8T_{35}^*$	$12T_{250}^*$	3072	$[12, 8, 4, 2^3, 1^6]$
$[6, 4, 1^2]$	$(1T_1)^2$ , $4T_1^*$ , $6T_8^*$	$12T_{160}^{*}$ $12T_{161}^{+*}$	576	$[12, 6, 4, 2, 1^8]$
$[6, 4, 1^2]$	$(1T_1)^2$ , $4T_1^*$ , $6T_8^*$	$12T_{161}^{+*}$	576	$[12, 6, 4, 2, 1^8]$
$[6, 4, 1^2]$	$(1T_1)^2$ , $4T_1^*$ , $6T_8^*$	$12T_{200}^*$	1152	$[12, 6, 4^2, 1^8]$
$[6, 4, 1^2]$	$(1T_1)^2$ , $4T_2^{+*}$ , $6T_7^{+*}$	$12T_{162}^{+*}$	576	$[12, 6, 4, 2, 1^8]$
$[6, 4, 1^2]$	$(1T_1)^2$ , $4T_2^{+*}$ , $6T_7^{+*}$	$12T_{163}^{+*}$	576	$[12, 6, 4, 2, 1^8]$
$[6, 4, 1^2]$	$(1T_1)^2$ , $4T_2^{+*}$ , $6T_7^{+*}$	$12T_{203}^{+*}$	1152	$[12, 6, 4^2, 1^8]$
$[6, 4, 1^2]$	$(1T_1)^2$ , $4T_3^*$ , $6T_{11}^*$	$12T_{195}^{+*}$	1152	$[12, 6, 4, 2^2, 1^7]$
$[6, 4, 1^2]$	$(1T_1)^2$ , $4T_3^*$ , $6T_{11}^*$	$12T_{196}^*$	1152	$[12, 6, 4, 2^2, 1^7]$
$[6, 4, 1^2]$	$(1T_1)^2$ , $4T_3^*$ , $6T_{11}^*$	$12T_{197}^*$	1152	$[12, 6, 4, 2^2, 1^7]$
$[6, 4, 1^2]$	$(1T_1)^2$ , $4T_3^*$ , $6T_{11}^*$	$12T_{198}^*$	1152	$[12, 6, 4, 2^2, 1^7]$
$[6, 4, 1^2]$	$(1T_1)^2$ , $4T_3^*$ , $6T_{11}^*$	$12T_{199}^{+*}$	1152	$[12, 6, 4, 2^2, 1^7]$
$[6, 4, 1^2]$	$(1T_1)^2$ , $4T_3^*$ , $6T_{11}^*$	$12T_{201}^*$	1152	$[12, 6, 4^2, 1^8]$
$[6, 4, 1^2]$	$(1T_1)^2$ , $4T_3^*$ , $6T_{11}^*$	$12T_{202}^{+*}$	1152	$[12, 6, 4^2, 1^8]$
$[6, 4, 1^2]$	$(1T_1)^2$ , $4T_3^*$ , $6T_{11}^*$	$12T_{235}^*$	2304	$[12, 6, 4^2, 2, 1^7]$
$[6, 4, 1^2]$	$(1T_1)^2$ , $4T_3^*$ , $6T_{11}^*$	$12T_{236}^{+*}$	2304	$[12, 6, 4^2, 2, 1^7]$
$[6, 4, 1^2]$	$(1T_1)^2$ , $4T_3^*$ , $6T_{11}^*$	$12T_{237}^*$	2304	$[12, 6, 4^2, 2, 1^7]$
$[6, 4, 1^2]$	$(1T_1)^2$ , $4T_3^*$ , $6T_{11}^*$	$12T_{238}^*$	2304	$[12, 6, 4^2, 2, 1^7]$
$[6, 4, 1^2]$	$(1T_1)^2$ , $4T_3^*$ , $6T_{11}^*$	$12T_{240}^{*}$	2304	$[12, 6, 4, 2^3, 1^6]$
$[6, 4, 1^2]$	$(1T_1)^2$ , $4T_3^*$ , $6T_{11}^*$	$12T_{241}^*$	2304	$[12, 6, 4, 2^3, 1^6]$
$[6, 4, 1^2]$	$(1T_1)^2$ , $4T_3^*$ , $6T_{11}^*$	$12T_{260}^*$	4608	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[5^2, 1^2]$	$(1T_1)^2, (5T_1^{+*})^2$	$12T_{33}^{+}$	60	1
G: Possible Ga	alois Groups, $D(G)$ : Degrees of f	actors, $S(G)$	): Galois Gro	oups of factors, $\mathcal{L}(G)$ : Initial Degrees

Splitting table of degree 12

D(G)	S(G)	G	$\mid G \mid$	$\mathcal{L}(G)$		
$[5^2, 1^2]$	$(1T_1)^2, (5T_2^{+*})^2$	$12T_{74}^{+}$	120	$[12, 5, 2, 1^9]$		
$[5^2, 1^2]$	$(1T_1)^2$ , $(5T_2^{+*})^2$	$12T_{75}^{+}$	120	$[12, 5, 2, 1^9]$		
$[5^2, 1^2]$	$(1T_1)^2$ , $(5T_2^{+*})^2$	$12T_{76}^{+}$	120	$[12, 5, 2, 1^9]$		
$[5^2, 1^2]$	$(1T_1)^2, (5T_3^*)^2$	$12T_{123}^{+}$	240	$[12, 5, 4, 1^9]$		
$[5^2, 1^2]$	$(1T_1)^2, (5T_4^+)^2$	$12T_{180}^{+}$	720	$[12, 5, 4, 3, 1^8]$		
$[5^2, 1^2]$	$(1T_1)^2, (5T_4^+)^2$	$12T_{183}^{+}$	720	[12, 5, 4, 3, 18]		
$[5^2, 1^2]$	$(1T_1)^2$ , $(5T_4)^2$	$12T_{183}^{+}$ $12T_{219}^{+}$	1440	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		
$[10, 1^2]$	$(1T_1)^{\circ}, (0T_5)^{\circ}$ $(1T_1)^2, 10T_4^*$	$12T_{219}$ $12T_{124}$	240	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		
[10, 1]	$(1T_1)^{\frac{1}{2}}, 10T_4^{\frac{1}{4}}$		1920	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		
[10, 1]	$(111)$ , $101_{15}$	$12T_{230}^{+}$	3840	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		
	$(1T_1)^2$ , $10T_{23}^*$	$12T_{255}$				
$[10, 1^2]$	$(1T_1)^2$ , $10T_{24}^{+*}$	$12T_{257}^{+}$	3840	$[12, 10, 8, 2^2, 1^7]$		
$[10, 1^2]$	$ \begin{array}{cccc} (1T_1)^2, & 10T_{25}^* \\ (1T_1)^2, & 10T_{29}^* \\ \end{array} $	$12T_{256}$	3840	$[12, 10, 8, 2^2, 1^7]$		
$[10, 1^2]$	$(1T_1)^2$ , $10T_{29}^*$	$12T_{270}$	7680	$[12, 10, 8, 2^3, 1^6]$		
$[10, 1^2]$	$(1T_1)^2$ , $10T_{34}^+$	$12T_{277}^{+}$	11520	$[12, 10, 8, 6, 2, 1^7]$		
$[10, 1^2]$	$(1T_1)^2$ , $10T_{36}$	$12T_{286}$	23040	$[12, 10, 8, 6, 2^2, 1^6]$		
$[10, 1^2]$	$(1T_1)^2$ , $10T_{37}^+$	$12T_{285}^{+}$	23040	$[12, 10, 8, 6, 4, 1^7]$		
$[10, 1^2]$	$(1T_1)^2$ , $10T_{38}$	$12T_{287}$	23040	$[12, 10, 8, 6, 4, 1^7]$		
$[10, 1^2]$	$(1T_1)^2$ , $10T_{39}$	$12T_{293}$	46080	[12, 10, 8, 6, 4, 2, 16]		
$[3^3, 2, 1]$	$1T_1, 2T_1, (3T_2^*)^3$	$12T_{46}^{+*}$	72	$[12, 3, 2, 1^9]$		
$[3^3, 2, 1]$	$1T_1, 2T_1, (3T_2^*)^3$	$12T_{47}^{+*}$	72	$[12, 3, 2, 1^9]$		
$[3^3, 2, 1]$	$1T_1, 2T_1, (3T_2^*)^3$	$12T_{117}^{+*}$	216	$[12, 3^2, 2, 1^8]$		
$[3^3, 2, 1]$	$1T_1, 2T_1, (3T_2^*)^3$	$12T_{119}^*$	216	$[12, 3^2, 2, 1^8]$		
$[3^3, 2, 1]$	$1T_1, 2T_1, (3T_2^*)^3$	$12T_{100}^{+*}$	648	$[12, 3^3, 2, 1^7]$		
$[3^3, 2, 1]$	$1T_1, 2T_1, (3T_2^*)^3$	$ \begin{array}{c} 12T_{168}^{+*} \\ 12T_{170}^{*} \end{array} $	648	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		
$[3^3, 2, 1]$	$1T_1, 2T_1, (3T_2^*)^3$	$\begin{array}{c} 12T_{170} \\ 12T_{171}^{+*} \\ 12T_{172}^{+*} \\ 12T_{173}^{+*} \\ 12T_{174}^{+*} \\ \end{array}$	648	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		
$[3^3, 2, 1]$	$1T_1, 2T_1, (3T_2)^3$	$12T_{171} + 12T_{171}$	648	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		
$[3^3, 2, 1]$	$1T_1, 2T_1, (3T_2)$ $1T_1, 2T_1, (3T_2^*)^3$	$12^{1}172$ $12T^{+*}$	648	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		
	111, 211, (312) $1T, 9T, (2T*)3$	12T 173	648	[12, 0 , 2, 1 ]		
$[3^3, 2, 1]$	$1T_1, 2T_1, (3T_2^*)^3$	121 <sub>174</sub>		$[12, 3^3, 2, 1^7]$		
$[3^3, 2, 1]$	$1T_1, 2T_1, (3T_2^*)^3$	$12T_{210}^{+*}$	1296	$[12, 3^3, 2^2, 1^6]$		
$[3^3, 2, 1]$	$1T_1, 2T_1, (3T_2^*)^3$	$12T_{211}^*$	1296	$[12, 3^3, 2^2, 1^6]$		
$[3^3, 2, 1]$	$1T_1, 2T_1, (3T_2^*)^3$	$12T_{214}^{+*}$	1296	$[12, 3^3, 2^2, 1^6]$		
$[3^3, 2, 1]$	$1T_1, 2T_1, (3T_2^*)^3$	$12T_{215}^{+*}$	1296	$[12, 3^3, 2^2, 1^6]$		
$[3^3, 2, 1]$	$1T_1, 2T_1, (3T_2^*)^3$	$12T_{242}^{+*}$	2592	$[12, 3^3, 2^3, 1^5]$		
$[3^3, 2, 1]$	$1T_1, 2T_1, (3T_2^*)^3$	$12T_{244}^{+*}$	2592	$[12, 3^3, 2^3, 1^5]$		
$[3^3, 2, 1]$	$1T_1, 2T_1, (3T_2^*)^3$	$12T_{245}^*$	2592	$[12, 3^3, 2^3, 1^5]$		
$[3^3, 2, 1]$	$1T_1, 2T_1, (3T_2^*)^3$	$12T_{246}^*$	2592	$[12, 3^3, 2^3, 1^5]$		
$[3^3, 2, 1]$	$1T_1, 2T_1, (3T_2^*)^3$	$12T_{261}^*$	5184	$[12, 3^3, 2^4, 1^4]$		
$[3^3, 2, 1]$	$1T_1, 2T_1, (3T_2^*)^3$	$12T_{264}^*$	5184	$[12, 3^3, 2^4, 1^4]$		
[6, 3, 2, 1]	$1T_1, 2T_1, 3T_1^{+*}, 6T_1^*$	$12T_{43}^{+*}$	72	$[12, 6, 1^{10}]$		
[6, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 6T_2^*$	$12T_{44}^{*}$	72	$[12, 6, 1^{10}]$		
[6, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 6T_3^*$	$12T_{83}^{*}$	144	$[12, 6, 2, 1^9]$		
[6, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 6T_3^*$	$12T_{84}^{+*}$	144	$[12, 4, 3, 1^9]$		
[6, 3, 2, 1]	$1T_1, 2T_1, 3T_2, 3T_3$ $1T_1, 2T_1, 3T_2^*, 6T_5^*$	$12T_{118}^*$	216	$[12, 6, 3, 1^9]$		
[6, 3, 2, 1]	$1T_1, 2T_1, 3T_2, 6T_5$ $1T_1, 2T_1, 3T_2^*, 6T_5^*$	$12T_{118}^*$ $12T_{120}^*$	216	$[12, 6, 3, 1^9]$		
[6, 3, 2, 1]	$1T_1, 2T_1, 3T_2, 6T_5$ $1T_1, 2T_1, 3T_2^*, 6T_5^*$	$12T_{169}^{*}$	648	$[12, 6, 3^2, 1^8]$		
		•				
$G$ : Possible Galois Groups, $D(G)$ : Degrees of factors, $S(G)$ : Galois Groups of factors, $\mathcal{L}(G)$ : Initial Degrees						

Splitting table of degree 12

D(0)	(a)		1.01	<b>C</b> (C)							
D(G)	S(G)	G	G	$\mathcal{L}(G)$							
[6, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 6T_9^*$	$12T_{156}^*$	432	$[12, 6, 3, 2, 1^8]$							
[6, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 6T_9^*$	$12T_{209}^*$	1296	$[12, 6, 3^2, 2, 1^7]$							
[6, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 6T_9^*$	$12T_{212}^{+*}$	1296	$[12, 6, 3^2, 2, 1^7]$							
[6, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 6T_9^*$	$12T_{216}^{+*}$	1296	$[12, 6, 3^2, 2, 1^7]$							
[6, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 6T_9^*$	$12T_{217}^*$	1296	$[12, 6, 3^2, 2, 1^7]$							
[6, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 6T_9^*$	$12T_{243}^{+*}$	2592	$[12, 6, 3^2, 2^2, 1^6]$							
[6, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 6T_9^*$	$12T_{248}^*$	2592	$[12, 6, 3^2, 2^2, 1^6]$							
[6, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 6T_{10}^{+*}$	$12T_{247}^*$	2592	$[12, 6, 3^2, 2^2, 1^6]$							
[6, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 6T_{10}^{+*}$	$12T_{249}^{+*}$	2592	$[12, 6, 3^2, 2^2, 1^6]$							
[6, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 6T_{13}^*$	$12T_{262}^*$	5184	$[12, 6, 3^2, 2^3, 1^5]$							
[6, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 6T_{13}^*$	$12T_{263}^*$	5184	$[12, 6, 3^2, 2^3, 1^5]$							
[6, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 6T_{13}^*$	$12T_{266}^{+*}$	5184	$[12, 6, 3^2, 2^3, 1^5]$							
[6, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 6T_{13}^*$	$12T_{267}^*$		$[12, 6, 3^2, 2^3, 1^5]$							
[6, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 6T_{13}^*$	$12T_{274}^{*}$	10368	$[12, 6, 3^2, 2^4, 1^4]$							
[9, 2, 1]	$1T_1, 2T_1, 9T_4^*$	$12T_{122}^{+*}$	216	$[12, 9, 2, 1^9]$							
[9, 2, 1]	$1T_1, 2T_1, 9T_4$ $1T_1, 2T_1, 9T_8^*$	$12T_{157}^{+*}$	432	$[12, 9, 4, 1^9]$							
[9, 2, 1]	$1T_1, 2T_1, 9T_8$ $1T_1, 2T_1, 9T_{10}^{+*}$	$12T_{157}^*$ $12T_{177}^*$	648	$[12, 9, 6, 1^9]$							
[9, 2, 1]	$1T_1, 2T_1, 9T_{10}$ $1T_1, 2T_1, 9T_{11}^{+*}$	$12T_{178}^{*}$ $12T_{178}^{*}$	648	$[12, 9, 6, 1]$ $[12, 9, 6, 1^9]$							
[9, 2, 1]		12T 178 12T+*	648	$[12, 9, 3, 2, 1^8]$							
	$1T_1, 2T_1, 9T_{13}^*$	$12T_{176}^{+*}$	1296	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$							
[9, 2, 1]	$1T_1, 2T_1, 9T_{18}^*$	$12T_{213}^*$									
[9, 2, 1]	$1T_1, 2T_1, 9T_{21}^{+*}$	$12T_{233}^*$	1944	$[12, 9, 6, 3, 1^8]$							
[9, 2, 1]	$1T_1, 2T_1, 9T_{22}^*$	$12T_{232}^{+*}$	1944	$[12, 9, 3^2, 2, 1^7]$							
[9, 2, 1]	$1T_1, 2T_1, 9T_{22}^*$	$12T_{234}^{+*}$	1944	$[12, 9, 3^2, 2, 1^7]$							
[9, 2, 1]	$1T_1, 2T_1, 9T_{24}^*$	$12T_{258}^*$	3888	$[12, 9, 6, 3, 2, 1^7]$							
[9, 2, 1]	$1T_1, 2T_1, 9T_{24}^*$	$12T_{259}^{+*}$	3888	$[12, 9, 6, 3, 2, 1^7]$							
[9, 2, 1]	$1T_1, 2T_1, 9T_{28}^*$	$12T_{271}^{+*}$	7776	$[12, 9, 3^2, 2^3, 1^5]$							
[9, 2, 1]	$1T_1, 2T_1, 9T_{28}^*$	$12T_{280}^*$	15552	$[12, 9, 3^2, 2^4, 1^4]$							
[9, 2, 1]	$1T_1, 2T_1, 9T_{31}^*$	$12T_{281}^*$	15552	$[12, 9, 6, 3, 2^3, 1^5]$							
[9, 2, 1]	$1T_1, 2T_1, 9T_{31}^*$	$12T_{282}^{+*}$	15552	$[12, 9, 6, 3, 2^3, 1^5]$							
[9, 2, 1]	$1T_1, 2T_1, 9T_{31}^*$	$12T_{289}^{*}$ $12T_{85}^{+*}$	31104	$[12, 9, 6, 3, 2^4, 1^4]$							
$[4^2, 3, 1]$	$1T_1, 3T_1^{+*}, (4T_4^{+*})^2$ $1T_1, 3T_1^{+*}, (4T_4^{+*})^2$	$12T_{85}^{+*}$	144	$[12, 4, 3, 1^9]$							
$[4^2, 3, 1]$	$1T_1, 3T_1^{+*}, (4T_4^{+*})^2$	$12T_{164}^{+*}$	576	$[12, 4^2, 3, 1^8]$							
$[4^2, 3, 1]$	$1T_1, 3T_1^{+*}, (4T_4^{+*})^2$	$12T_{166}^{+*}$	576	$[12, 4^2, 3, 1^8]$							
$[4^2, 3, 1]$	$1T_1, 3T_1^{+*}, (4T_4^{+*})^2$	$12T_{228}^{+*}$	1728	$[12, 4^2, 3^2, 1^7]$							
$[4^2, 3, 1]$	$1T_1, 3T_1^{+*}, (4T_4^{+*})^2$	$12T_{229}^{+*}$	1728	$[12, 4^2, 3^2, 1^7]$							
$[4^2, 3, 1]$	$1T_1, 3T_1^{+*}, (4T_4^{+*})^2$	$12T_{265}^{+*}$	5184	$[12, 4^2, 3^3, 1^6]$							
$[4^2, 3, 1]$	$1T_1, 3T_2^*, (4T_5^*)^2$	$12T_{129}^*$	288	$[12, 4, 3, 2, 1^8]$							
$[4^2, 3, 1]$	$1T_1, 3T_2^*, (4T_5^*)^2$	$12T_{205}^*$	1152	$[12, 4^2, 3, 2, 1^7]$							
$[4^2, 3, 1]$	$1T_1, 3T_2^*, (4T_5^*)^2$	$12T_{253}^*$	3456	$[12, 4^2, 3^2, 2, 1^6]$							
$[4^2, 3, 1]$	$1T_1, 3T_2^*, (4T_5^*)^2$	$12T_{273}^*$	10368	$[12, 4^2, 3^3, 2, 1^5]$							
$[4^2, 3, 1]$	$1T_1, 3T_2^*, (4T_5^*)^2$	$12T_{284}^{+*}$	20736	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$							
$[4^2, 3, 1]$	$1T_1, 3T_2, (4T_5)$ $1T_1, 3T_2^*, (4T_5^*)^2$	$12T_{292}^*$	41472	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$							
[8, 3, 1]	$1T_1, 3T_2, (4T_5)$ $1T_1, 3T_1^{+*}, 8T_{13}^{+*}$		288	$[12, 4, 3, 2, 1]$ $[12, 8, 3, 1^9]$							
[8, 3, 1]	1T. 2T+* 2T+*	$12T_{128}^{+*}$		$[12, 8, 4, 3, 1^8]$							
	$1T_1, 3T_1^{+*}, 8T_{33}^{+*}$	$12T_{206}^{+*}$	1152								
[8, 3, 1]	$1T_1, 3T_1^{+*}, 8T_{42}^{+*}$	$12T_{252}^{+*}$	3456	$[12, 8, 4, 3^2, 1^7]$							
G: Possible Ga	liois Groups, $D(G)$ : Degrees of factors	actors, $S(G)$	): Galois Gro	$G$ : Possible Galois Groups, $D(G)$ : Degrees of factors, $S(G)$ : Galois Groups of factors, $\mathcal{L}(G)$ : Initial Degrees							

Splitting table of degree 12

D(G)	S(G)	G	$\mid G \mid$	$\mathcal{L}(G)$
[8, 3, 1]	$1T_1, 3T_1^{+*}, 8T_{42}^{+*}$	$12T_{275}^{+*}$	10368	$[12, 8, 4, 3^3, 1^6]$
[8, 3, 1]	$1T_1, 3T_2^*, 8T_{14}^{+*}$	$12T_{127}^*$	288	$[12, 8, 3, 1^9]$
[8, 3, 1]	$1T_1, 3T_2^*, 8T_{24}^{+*}$	$12T_{165}^*$	576	$[12, 8, 3, 2, 1^8]$
[8, 3, 1]	$1T_1, 3T_2^*, 8T_{34}^{+*}$	$12T_{204}^*$	1152	$[12, 8, 4, 3, 1^8]$
[8, 3, 1]	$1T_1, 3T_2^*, 8T_{34}^{+*}$	$12T_{207}^*$	1152	$[12, 8, 4, 3, 1^8]$
[8, 3, 1]	$1T_1, 3T_2^*, 8T_{41}^{+*}$	$12T_{239}^*$	2304	$[12, 8, 4, 3, 2, 1^7]$
[8, 3, 1]	$1T_1, 3T_2^*, 8T_{42}^{+*}$	$12T_{251}^*$	3456	$[12, 8, 4, 3^2, 1^7]$
[8, 3, 1]	$1T_1, 3T_2^*, 8T_{42}^{+*}$	$12T_{254}^*$	3456	$[12, 8, 4, 3^2, 1^7]$
[8, 3, 1]	$1T_1, 3T_2^*, 8T_{42}^{+*}$	$12T_{276}^*$	10368	$[12, 8, 4, 3^3, 1^6]$
[8, 3, 1]	$1T_1, 3T_2^*, 8T_{45}^{+*}$	$12T_{268}^*$	6912	$[12, 8, 4, 3^2, 2, 1^6]$
[8, 3, 1]	$1T_1, 3T_2^*, 8T_{45}^{+*}$	$12T_{283}^*$	20736	$[12, 8, 4, 3^3, 2, 1^5]$
[8, 3, 1]	$1T_1, 3T_2^*, 8T_{47}^*$	$12T_{290}^{+*}$	41472	$[12, 8, 4, 3^3, 2^2, 1^4]$
[8, 3, 1]	$1T_1, 3T_2^*, 8T_{47}^*$	$12T_{291}^*$	41472	$[12, 8, 4, 3^3, 2^2, 1^4]$
[8, 3, 1]	$1T_1, 3T_2^*, 8T_{47}^*$	$12T_{294}^*$	82944	$[12, 8, 4, 3^3, 2^3, 1^3]$
[6, 5, 1]	$1T_1, 5T_2^{+*}, 6T_{12}^{+}$	$12T_{269}^{+}$	7200	$[12, 6, 5^2, 2^2, 1^6]$
[6, 5, 1]	$1T_1, 5T_3^*, 6T_{14}$	$12T_{278}$	14400	$[12, 6, 5^2, 4, 2, 1^6]$
[6, 5, 1]	$1T_1, 5T_3^*, 6T_{14}$	$12T_{279}^{+}$	14400	$[12, 6, 5^2, 4, 2, 1^6]$
[6, 5, 1]	$1T_1, 5T_3^*, 6T_{14}$	$12T_{288}$	28800	$[12, 6, 5^2, 4^2, 1^6]$
[6, 5, 1]	$1T_1, 5T_4^+, 6T_{12}^+$	$12T_{181}^{+}$	720	$[12, 6, 5, 2, 1^8]$
[6, 5, 1]	$1T_1, 5T_4^+, 6T_{12}^+$	$12T_{182}^{+}$	720	$[12, 6, 5, 2, 1^8]$
[6, 5, 1]	$1T_1, 5T_4^+, 6T_{15}^+$	$12T_{296}^{+}$	259200	$[12, 6, 5^2, 4^2, 3^2, 1^4]$
[6, 5, 1]	$1T_1, 5T_5, 6T_{14}$	$12T_{220}^{+}$	1440	$[12, 6, 5, 4, 1^8]$
[6, 5, 1]	$1T_1, 5T_5, 6T_{16}$	$12T_{297}^{+}$	518400	$[12, 6, 5^2, 4^2, 3^2, 2, 1^3]$
[6, 5, 1]	$1T_1, 5T_5, 6T_{16}$	$12T_{298}$	518400	$[12, 6, 5^2, 4^2, 3^2, 2, 1^3]$
[6, 5, 1]	$1T_1, 5T_5, 6T_{16}$	$12T_{299}$	1036800	$[12, 6, 5^2, 4^2, 3^2, 2^2, 1^2]$
[11, 1]	$1T_1, 11T_3^{+*}$	$12T_{179}^{+}$	660	$[12, 11, 5, 1^9]$
[11, 1]	$1T_1, 11T_4^*$	$12T_{218}$	1320	$[12, 11, 10, 1^9]$
[11, 1]	$1T_1, 11T_5^+$	$12T_{272}^{+}$	7920	$[12, 11, 10, 6, 1^8]$
[11, 1]	$1T_1, 11T_6^+$	$12T_{295}^{+}$	95040	$[12, 11, 10, 9, 8, 1^7]$
[11, 1]	$1T_1, 11T_7^+$	$12T_{300}^{+}$	12! / 2	$[12, \ldots, 3, 1^2]$
[11, 1]	$1T_1, 11T_8$	$12T_{301}$	12!	$[12,\ldots,1]$
G: Possible G	alois Groups, $D(G)$ : Degrees of fa	actors, $S(G)$	): Galois Gro	ups of factors, $\mathcal{L}(G)$ : Initial Degrees

Splitting table of degree 13

D(G)	S(G)	G	$\mid G \mid$	$\mathcal{L}(G)$
$[1^{13}]$	$(1T_1)^{13}$	$13T_1^{+*}$	13	$[13, 1^{12}]$
$[2^6, 1]$	$1T_1, (2T_1)^6$	$13T_2^{+*}$	26	$[13, 2, 1^{11}]$
$[3^4, 1]$	$1T_1, (3T_1^{+*})^4$	$13T_3^{+*}$	39	$[13, 3, 1^{11}]$
$[4^3, 1]$	$1T_1, (4T_1^*)^3$	$13T_4^*$	52	$[13, 4, 1^{11}]$
$[6^2, 1]$	$1T_1, (6T_1^*)^2$	$13T_5^{+*}$	78	$[13, 6, 1^{11}]$
[12, 1]	$1T_1, 12T_1^*$	$13T_{6}^{*}$	156	$[13, 12, 1^{11}]$
[12, 1]	$1T_1, 12T_{157}^{+*}$	$13T_{7}^{+}$	5616	$[13, 12, 9, 2^2, 1^8]$
[12, 1]	$1T_1, 12T_{300}^+$	$13T_{8}^{+}$	13! / 2	$[13,\ldots,3,1^2]$
[12, 1]	$1T_1, 12T_{301}$	$13T_9$	13!	$[13, \ldots, 1]$
G: Possibl	le Galois Groups, D	O(G): Degree	ees of facto	ors, $S(G)$ : Galois Groups of factors, $\mathcal{L}(G)$ : Initial Degrees

Splitting table of degree 14

D/(0)	(0)		1.01	4(0)
D(G)	S(G)	G	G	$\mathcal{L}(G)$
$[1^{14}]$	$(1T_1)^{14}$	$14T_{1}^{*}$	14	$[14, 1^{13}]$
$[1^{14}]_{\_}$	$(1T_1)^{14}$	$14T_{2}^{*}$	14	$[14, 1^{13}]$
$[7, 1^7]$	$(1T_1)^7, 7T_1^{+*}$	$14T_{8}^{*}$	98	$[14, 7, 1^{12}]$
$[2^6, 1^2]$	$(1T_1)^2$ , $(2T_1)^6$	$14T_{3}^{*}$	28	$[14, 2, 1^{12}]$
$[2^6, 1^2]$	$(1T_1)^2, (2T_1)^6$	$14T_6^{+*}$	56	$[14, 2^2, 1^{11}]$
$[2^6, 1^2]$	$(1T_1)^2, (2T_1)^6$	$14T_0^*$	112	$[14, 2^3, 1^{10}]$
$[2^6, 1^2]$	$(1T_1)^2, (2T_1)^6$	$   \begin{array}{c}     14T_{6}^{+*} \\     14T_{9}^{*} \\     14T_{21}^{**} \\     14T_{29}^{**}   \end{array} $	448	$[14, 2^5, 1^8]$
$[2^6, 1^2]$	$(1T_1)^2, (2T_1)^6$	$14T_{20}^{*}$	896	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[3^4, 1^2]$	$(1T_1)^2, (2T_1)^4$	$14T_4^*$	42	$[14, 3, 1^{12}]$
$[3^4, 1^2]$	$(1T_1)^2, (3T_1^{+*})^4$	141 <sub>4</sub>	42	$[14, 3, 1^{12}]$
[3, 1]	$(1I_1)$ , $(3I_1)$	14T*		[14, 3, 1]
$[4^3, 1^2]$	$(1T_1)^2, (4T_3^*)^3$	14T <sub>27</sub> *	896	$[14, 4, 2^4, 1^8]$
$[4^3, 1^2]$	$(1T_1)^2, (4T_3^*)^3$	$14T_{28}^{+*}$	896	$[14, 4, 2^4, 1^8]$
$[4^3, 1^2]$	$(1T_1)^2, (4T_3^*)^3$	$14T_{38}^*$	1792	$[14, 4, 2^5, 1^7]$
$[6^2, 1^2]$	$(1T_1)^2, (6T_1^*)^2$	$14T_7^*$	84	$[14, 6, 1^{12}]$
$[6^2, 1^2]$	$(1T_1)^2$ , $(6T_4^{+*})^2$	$   \begin{array}{c}     14T_{38}^{*} \\     14T_{7}^{*} \\     14T_{11}^{+*}   \end{array} $	168	$[14, 6, 2, 1^{11}]$
$[6^2, 1^2]$	$(1T_1)^2$ , $6T_4^{+*}$ , $6T_6^*$	$14T_{18}^{*}$	336	$[14, 6, 2^2, 1^{10}]$
$[6^2, 1^2]$	$(1T_1)^2, (6T_6^*)^2$	$14T_{25}^{+*}$	1344	$[14, 6, 2^4, 1^8]$
$[6^2, 1^2]$	$(1T_1)^2$ , $(6T_6^*)^2$	$14T_{35}^{+*}$ $14T_{44}^{*}$	2688	$[14, 6, 2^5, 1^7]$
$[6^2, 1^2]$	$(1T_1)^2 (6T^{+*})^2$	$14T_{19}$	336	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[6^2, 1^2]$	$ \frac{(1T_1)^2, (6T_7^{+*})^2}{(1T_1)^2, (6T_{15}^{+})^2} $	$14T_{46}$	5040	[14, 6, 5, 4, 3, 1 <sup>9</sup> ]
[62 12]	$(111)$ , $(01_{15})$	14146		
$[6^2, 1^2]$	$(1T_1)^2, (6T_{15}^+)^2$	$14T_{47}$	5040	[14, 6, 5, 4, 3, 1 <sup>9</sup> ]
$[6^2, 1^2]$	$(1T_1)^2$ , $(6T_{16})^2$	$14T_{49}$	10080	[14, 6, 5, 4, 3, 2, 18]
$[12, 1^2]$	$(1T_1)^2$ , $12T_4^{+*}$	$14T_{10}^{+}$	168	$[14, 12, 1^{12}]$
$[12, 1^2]$	$(1T_1)^2, 12T_8^*$	$14T_{17}$	336	$[14, 12, 2, 1^{11}]$
$[12, 1^2]$	$(1T_1)^2$ , $12T_{63}^{+*}$	$14T_{33}^{+}$	1344	$[14, 12, 8, 1^{11}]$
$[12, 1^2]$	$(1T_1)^2$ , $12T_{67}^{+*}$	$14T_{34}^{+}$	1344	$[14, 12, 8, 1^{11}]$
$[12, 1^2]$	$(1T_1)^2$ , $12T_{87}^{+*}$	$14T_{41}^{+*}$	2688	$[14, 12, 2^4, 1^8]$
$[12, 1^2]$	$(1T_1)^2$ , $12T_{105}^*$	$14T_{40}^{*}$	2688	$[14, 12, 2^4, 1^8]$
$[12, 1^2]$	$(1T_1)^2$ , $12T_{110}^*$	$14T_{43}$	2688	$[14, 12, 8, 2, 1^{10}]$
$[12, 1^2]$	$(1T_1)^2$ $12T_{110}^*$	$14T_{42}$	2688	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[12, 1^2]$	$(1T_1)^2$ , $12T_{115}^*$ $(1T_1)^2$ , $12T_{134}^*$	11142 1AT*.	5376	$[14, 12, 2^5, 1^7]$
[12, 1]	(17), $121$ 134 $(17)$ 2 12 $T^{+*}$	$14T_{48}^{*}$ $14T_{50}^{+}$	10752	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
	$(1T_1)^2$ , $12T_{184}^{+*}$	141 <sub>50</sub>		[14, 12, 0, 2, 1]
$[12, 1^2]$	$(1T_1)^2$ , $12T_{227}^*$	$14T_{51}$	21504	$[14, 12, 8, 2^4, 1^7]$
$[12, 1^2]$	$(1T_1)^2$ , $12T_{277}^+$	$14T_{53}^{+}$	161280	$[14, 12, 10, 8, 6, 2, 1^8]$
$[12, 1^2]$	$(1T_1)^2$ , $12T_{285}^+$	$14T_{55}^{+}$	322560	$[14, 12, 10, 8, 6, 4, 1^8]$
$[12, 1^2]$	$(1T_1)^2$ , $12T_{286}$	$14T_{56}$	322560	$[14, 12, 10, 8, 6, 2^2, 1^7]$
$[12, 1^2]$	$(1T_1)^2$ , $12T_{287}$	$14T_{54}$	322560	$[14, 12, 10, 8, 6, 4, 1^8]$
$[12, 1^2]$	$(1T_1)^2$ , $12T_{293}$	$14T_{57}$	645120	$[14, 12, 10, 8, 6, 4, 2, 1^7]$
$[7, 2^3, 1]$	$1T_1, (2T_1)^3, 7T_2^*$	$14T_{12}^{+*}$	196	$[14, 7, 2, 1^{11}]$
$[7, 2^3, 1]$	$1T_1, (2T_1)^3, 7T_2^*$	$14T_{13}^{*}$	196	$[14, 7, 2, 1^{11}]$
$[7, 2^3, 1]$	$1T_1, (2T_1)^3, 7T_2^*$	$14T_{20}^{*}$	392	$[14, 7, 2^2, 1^{10}]$
$[7, 3^2, 1]$	$1T_1, (2T_1), T_2$ $1T_1, (3T_1^{+*})^2, 7T_3^{+*}$	$14T_{14}^*$	294	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[7, 3^2, 1]$	$  1T, (9T_1), 1T_3 $			[14, 7, 3, 1]
$\begin{bmatrix} [1, 3, 1] \\ [7, 2^2, 1] \end{bmatrix}$	$1T_1, (3T_1^{+*})^2, 7T_3^{+*}$	$14T_{15}^{*}$	294	
$[7, 3^2, 1]$	$1T_1, (3T_1^{+*})^2, 7T_3^{+*}$	$14T_{26}^{*}$	882	$[14, 7, 3^2, 1^{10}]$
[6, 4, 3, 1]	$1T_1, 3T_2^*, 4T_5^*, 6T_7^{+*}$	$14T_{16}$	336	$[14, 4, 3, 2, 1^{10}]$
G: Possible Ga	alois Groups, $D(G)$ : Degrees o	of factors, S	S(G): Galois C	Groups of factors, $\mathcal{L}(G)$ : Initial Degrees

Splitting table of degree 14

D(G)	S(G)	G	$\mid G \mid$	$\mathcal{L}(G)$
[7, 6, 1]	$1T_1, 6T_1^*, 7T_4^*$	$14T_{22}^{+*}$	588	$[14, 7, 6, 1^{11}]$
[7, 6, 1]	$1T_1, 6T_1^*, 7T_4^*$	$14T_{23}^{+*}$	588	$[14, 7, 6, 1^{11}]$
[7, 6, 1]	$1T_1, 6T_1^*, 7T_4^*$	$14T_{24}^*$	588	$[14, 7, 6, 1^{11}]$
[7, 6, 1]	$1T_1, 6T_1^*, 7T_4^*$	$14T_{25}^*$	588	$[14, 7, 6, 1^{11}]$
[7, 6, 1]	$1T_1, 6T_1^*, 7T_4^*$	$14T_{31}^*$	1176	$[14, 7, 6, 2, 1^{10}]$
[7, 6, 1]	$1T_1, 6T_1^*, 7T_4^*$	$14T_{32}^*$	1176	$[14, 7, 6, 2, 1^{10}]$
[7, 6, 1]	$1T_1, 6T_1^*, 7T_4^*$	$14T_{36}^{+*}$	1764	$[14, 7, 6, 3, 1^{10}]$
[7, 6, 1]	$1T_1, 6T_1^*, 7T_4^*$	$14T_{37}^*$	1764	$[14, 7, 6, 3, 1^{10}]$
[7, 6, 1]	$1T_1, 6T_1^*, 7T_4^*$	$14T_{45}^*$	3528	$[14, 7, 6^2, 1^{10}]$
[7, 6, 1]	$1T_1, 6T_7^{+*}, 7T_5^+$	$14T_{52}$	56448	$[14, 7, 6^2, 4^2, 1^8]$
[7, 6, 1]	$1T_1, 6T_{15}^+, 7T_6^+$	$14T_{58}$	12700800	$[14, 7, 6^2, 5^2, 4^2, 3^2, 1^4]$
[7, 6, 1]	$1T_1, 6T_{16}, 7T_7$	$14T_{59}^{+}$	25401600	$[14, 7, 6^2, 5^2, 4^2, 3^2, 2, 1^3]$
[7, 6, 1]	$1T_1, 6T_{16}, 7T_7$	$14T_{60}$	25401600	$[14, 7, 6^2, 5^2, 4^2, 3^2, 2, 1^3]$
[7, 6, 1]	$1T_1, 6T_{16}, 7T_7$	$14T_{61}$	50803200	$[14, 7, 6^2, 5^2, 4^2, 3^2, 2^2, 1^2]$
[13, 1]	$1T_1, 13T_5^{+*}$	$14T_{30}^{+}$	1092	$[14, 13, 6, 1^{11}]$
[13, 1]	$1T_1, 13T_6^*$	$14T_{39}$	2184	$[14, 13, 12, 1^{11}]$
[13, 1]	$1T_1, 13T_8^+$	$14T_{62}^{+}$	14! / 2	$[14, \ldots, 3, 1^2]$
[13, 1]	$1T_1, 13T_9$	$14T_{63}$	14!	$[14,\ldots,1]$
G: Possible Ga	alois Groups, $D(G)$ : Degrees of	of factors, S	S(G): Galois G	roups of factors, $\mathcal{L}(G)$ : Initial Degrees

Splitting table of degree 15

D(G)	S(G)	G	$\mid G \mid$	$\mathcal{L}(G)$						
$[1^{15}]$	$(1T_1)^{15}$	$15T_1^{+*}$	15	$[15, 1^{14}]$						
$[2^5, 1^5]$	$(1T_1)^5$ , $(2T_1)^5$	$15T_4^*$	30	$[15, 2, 1^{13}]$						
$[5^2, 1^5]$	$(1T_1)^5, (5T_1^{+*})^2$	$   \begin{array}{c}     15T_1^{+*} \\     15T_4^{*} \\     15T_9^{+*} \\     15T_{25}^{+*} \\     15T_{13}^{*}   \end{array} $	75	$[15, 5, 1^{13}]$						
$[5^2, 1^5]$	$(1T_1)^5, (5T_1^{+*})^2$	$15T_{25}^{+*}$	375	$[15, 5^2, 1^{12}]$						
$[10, 1^5]$	$(1T_1)^5$ , $10T_2^*$	$15T_{13}^*$	150	$[15, 10, 1^{13}]$						
$[10, 1^5]$	$(1T_1)^5$ , $10T_6^*$	$15I_{22}$	750	$[15, 10, 5, 1^{12}]$						
$[2^6, 1^3]$	$(1T_1)^3, (2T_1)^6$	$   \begin{array}{c}     32 \\     15T_3^{+*} \\     15T_{26}^{+*} \\     15T_{36}^{+*}   \end{array} $	30	$[15, 2, 1^{13}]$						
$[3^4, 1^3]$	$(1T_1)^3$ , $(3T_1^{+*})^4$	$15T_{2e}^{+*}$	405	$[15, 3^3, 1^{11}]$						
$[3^4, 1^3]$	$(1T_1)^3, (3T_1^{+*})^4$	$15T_{2c}^{+*}$	1215	$[15, 3^4, 1^{10}]$						
$[4^3, 1^3]$	$(1T_1)^3 (4T_1^*)^3$	$15T_{\rm s}^*$	60	$[15, 4, 1^{13}]$						
$[4^3, 1^3]$	$ \begin{array}{c} (111), (111) \\ (111)^3, (412)^{**} \\ (111)^3, (412)^{**} \\ (111)^3, (412)^{**} \\ (111)^3, (412)^{**} \\ (111)^3, (612)^{**} \\ (111)^3, (612)^{**} \end{array} $	$15T_{8}^{*}$ $15T_{5}^{+}$	60	$[15, 4, 1^{13}]$						
$[4^3, 1^3]$	$(1T_1)^3, (1T_2)$	$15T_{16}^{+}$	180	$[15, 4, 3, 1^{12}]$						
$[4^3, 1^3]$	$(1T_1)^3, (4T_4)^3$	$15T_{16}$ $15T_{24}$	360	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$						
$[6^2, 1^3]$	(111), $(415)(17.)^3 (67*)^2$	15T24 15T+*	810	$[15, 4, 3, 2, 1]$ $[15, 6, 3^2, 1^{11}]$						
[62 13]	(111), $(015)$	15T <sub>34</sub>	2430	[15, 0, 5, 1]						
$[6^2, 1^3]$	$(1T_1)^3, (6T_5^*)^2$	$   \begin{array}{r}     15T_{34}^{+*} \\     15T_{46}^{+*} \\     15T_{15}^{+}   \end{array} $		$[15, 6, 3^3, 1^{10}]$						
$[12, 1^3]$	$(1T_1)^3$ , $12T_4^{+*}$	15115	180	$[15, 12, 1^{13}]$						
$[12, 1^3]$	$(1T_1)^3$ , $12T_{72}^*$	15T**	1620	$[15, 12, 3^2, 1^{11}]$						
$[12, 1^3]$	$(1T_1)^3$ , $12T_{131}^*$	$15T_{56}^{*}$	4860	$[15, 12, 3^3, 1^{10}]$						
$[12, 1^3]$	$(1T_1)^3$ , $12T_{133}^{+*}$	$15T_{53}^{+}$	4860	[15, 12, 9, 3, 1 <sup>11</sup> ]						
$[12, 1^3]$	$(1T_1)^3$ , $12T_{175}^*$	$15T_{63}$	9720	$[15, 12, 9, 6, 1^{11}]$						
$[12, 1^3]$	$(1T_1)^3$ , $12T_{194}^{+*}$	$15T_{69}^{+}$	14580	$[15, 12, 9, 3^2, 1^{10}]$						
$[12, 1^3]$	$(1T_1)^3$ , $12T_{231}^*$ $1T_1$ , $(2T_1)^7$	$15T_{78}$	29160	$[15, 12, 9, 6, 3, 1^{10}]$						
$[2^7, 1]$	$1T_1, (2T_1)^{\tau}$	$15T_2^*$	30	$[15, 2, 1^{13}]$						
$[4^2, 2^3, 1]$	$1T_1, (2T_1)^3, (4T_2^{+*})^2$	$15T_7^*$	60	$[15, 4, 1^{13}]$						
$[5^2, 2^2, 1]$	$1T_1, (2T_1)^2, (5T_2^{+*})^2$	$\begin{array}{c} 15T_{7}^{+} \\ 15T_{12}^{+*} \\ 15T_{30}^{+*} \\ 15T_{39}^{+*} \\ 15T_{50}^{+*} \\ 15T_{14}^{*} \end{array}$	150	$[15, 5, 2, 1^{12}]$						
$[5^2, 2^2, 1]$		$15T_{30}^{+*}$	750	$[15, 5^2, 2, 1^{11}]$						
$[5^2, 2^2, 1]$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$15T_{39}^{+*}$	1500	$[15, 5^2, 2^2, 1^{10}]$						
$[5^2, 2^2, 1]$	$1T_1, (2T_1)^2, (5T_2^{+*})^2$	$15T_{50}^{+*}$	3000	$[15, 5^2, 2^3, 1^9]$						
$[10, 2^2, 1]$	$1T_1, (2T_1)^2, 10T_1^*$	$15T_{14}^*$	150	$[15, 10, 1^{13}]$						
$[10, 2^2, 1]$	$1T_1, (2T_1)^2, 10T_3^*$	$15T_{18}^*$	300	$[15, 10, 2, 1^{12}]$						
$[10, 2^2, 1]$	$1T_1, (2T_1)^2, 10T_6^*$	$15T_{31}^*$	750	$[15, 10, 5, 1^{12}]$						
$[10, 2^2, 1]$	$1T_1, (2T_1)^2, 10T_9^*$	$15T_{31}^{*}$ $15T_{40}^{*}$	1500	$[15, 10, 5, 2, 1^{11}]$						
$[10, 2^2, 1]$	$1T_1, (2T_1)^2, 10T_{21}^*$	$15T_{48}^{*}$	3000	$[15, 10, 5, 2^2, 1^{10}]$						
$[10, 2^2, 1]$	$1T_1, (2T_1)^2, 10T_{21}^*$	$15T_{51}^*$	3000	$[15, 10, 5, 2^2, 1^{10}]$						
$[10, 2^2, 1]$	$1T_1, (2T_1)^2, 10T_{21}^*$	$15T_{60}^{*}$	6000	$[15, 10, 5, 2^3, 1^9]$						
$[3^4, 2, 1]$	$1T_1, 2T_1, (3T_2^*)^4$	$15T_{33}^*$	810	$[15, 3^3, 2, 1^{10}]$						
$[3^4, 2, 1]$	$1T_1, 2T_1, (3T_2^*)^4$	$15T_{44}^{*}$	2430	$[15, 3^4, 2, 1^9]$						
$[3^4, 2, 1]$	$1T_1, 2T_1, (3T_2)^4$	$15T_{71}^{+*}$	19440	$[15, 3^4, 2^4, 1^6]$						
$[3^4, 2, 1]$	$1T_1, 2T_1, (3T_2)^4$	$15T_{81}^*$	38880	$[15, 3^4, 2^5, 1^5]$						
$[4^3, 2, 1]$	$1T_1, 2T_1, (3T_2)$ $1T_1, 2T_1, (4T_1^*)^3$	$15T_{6}^{+*}$	60	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$						
[8, 4, 2, 1]	$1T_1, 2T_1, (4T_1)$ $1T_1, 2T_1, 4T_1^*, 8T_2^{+*}$	15T*	120	$[15, 8, 1^{13}]$						
		$15T_{11}^*$	120	[15, 8, 1]						
[8, 4, 2, 1]	$1T_1, 2T_1, 4T_3^*, 8T_4^{+*}$	$15T_{10}^{+}$								
[8, 4, 2, 1]	$1T_1, 2T_1, 4T_4^{+*}, 8T_{13}^{+*}$	$15T_{23}$	360	$[15, 8, 3, 1^{12}]$						
[8, 4, 2, 1]	$1T_1, 2T_1, 4T_5^*, 8T_{14}^{+*}$	$15T_{22}^{+}$	360	$[15, 8, 3, 1^{12}]$						
[8, 4, 2, 1]	$1T_1, 2T_1, 4T_5^*, 8T_{24}^{+*}$	$15T_{29}$	720	$[15, 8, 3, 2, 1^{11}]$						
G: Possible Ga	lois Groups, $D(G)$ : Degrees of	factors, $S($	$G$ : Possible Galois Groups, $D(G)$ : Degrees of factors, $S(G)$ : Galois Groups of factors, $\mathcal{L}(G)$ : Initial Degrees							

Splitting table of degree 15

D(C)	S(G)	G	G	$\mathcal{C}(C)$
D(G) [6 <sup>2</sup> , 2, 1]			810	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$
	$1T_1, 2T_1, (6T_5^*)^2$	$15T_{35}^{*}$		
$[6^2, 2, 1]$	$1T_1, 2T_1, (6T_5^*)^2$	15T <sub>45</sub>	2430	$[15, 6, 3^3, 1^{10}]$
$[6^2, 2, 1]$	$1T_1, 2T_1, (6T_9^*)^2$	$15T_{43}^*$	1620	$[15, 6, 3^2, 2, 1^{10}]$
$[6^2, 2, 1]$	$1T_1, 2T_1, (6T_9^*)^2$	$15T_{55}^*$	4860	$[15, 6, 3^3, 2, 1^9]$
$[6^2, 2, 1]$	$1T_1, 2T_1, (6T_{13}^*)^2$	$15T_{79}^*$	38880	$[15, 6, 3^3, 2^4, 1^6]$
$[6^2, 2, 1]$	$1T_1, 2T_1, (6T_{13}^*)^2$	$15T_{80}^{+*}$	38880	$[15, 6, 3^3, 2^4, 1^6]$
$[6^2, 2, 1]$	$1T_1, 2T_1, (6T_{13}^*)^2$	$15T_{86}^*$	77760	$[15, 6, 3^3, 2^5, 1^5]$
[12, 2, 1]	$1T_1, 2T_1, 12T_8^*$	$ \begin{array}{c c} 15T_{21}^{+} \\ 15T_{42}^{+*} \end{array} $	360	$[15, 12, 2, 1^{12}]$
[12, 2, 1]	$1T_1, 2T_1, 12T_{73}^*$	$15T_{42}^{+*}$	1620	$[15, 12, 3^2, 1^{11}]$
[12, 2, 1]	$1T_1, 2T_1, 12T_{119}^*$	$15T_{52}^*$	3240	$[15, 12, 3^2, 2, 1^{10}]$
[12, 2, 1]	$1T_1, 2T_1, 12T_{131}^*$	$15T_{54}^{+*}$	4860	$[15, 12, 3^3, 1^{10}]$
[12, 2, 1]	$1T_1, 2T_1, 12T_{170}^*$	$15T_{64}^*$	9720	$[15, 12, 3^3, 2, 1^9]$
[12, 2, 1]	$1T_1, 2T_1, 12T_{176}^{+*}$	$15T_{61}$	9720	$[15, 12, 9, 3, 2, 1^{10}]$
[12, 2, 1]	$1T_1, 2T_1, 12T_{178}^*$	$15T_{62}^{+}$	9720	$[15, 12, 9, 6, 1^{11}]$
[12, 2, 1]	$1T_1, 2T_1, 12T_{213}^*$	$15T_{70}$	19440	$[15, 12, 9, 6, 2, 1^{10}]$
[12, 2, 1]	$1T_1, 2T_1, 12T_{233}^*$	$15T_{77}^{+}$	29160	$[15, 12, 9, 6, 3, 1^{10}]$
[12, 2, 1]	$1T_1, 2T_1, 12T_{234}^{+*}$	$15T_{76}$	29160	$[15, 12, 9, 3^2, 2, 1^9]$
[12, 2, 1]	$1T_1, 2T_1, 12T_{258}^*$	$15T_{83}$	58320	$[15, 12, 9, 6, 3, 2, 1^9]$
[12, 2, 1]	$1T_1, 2T_1, 12T_{264}^*$	$15T_{84}^{+*}$	77760	$[15, 12, 3^3, 2^4, 1^6]$
[12, 2, 1]	$1T_1, 2T_1, 12T_{264}^*$ $1T_1, 2T_1, 12T_{264}^*$	$15T_{85}^*$	77760	$[15, 12, 3^3, 2^4, 1^6]$
[12, 2, 1]	$1T_1, 2T_1, 12T_{264}^*$	$15T_{87}^*$	155520	$[15, 12, 3^3, 2^5, 1^5]$
[12, 2, 1]	$1T_1, 2T_1, 12T_{264}$ $1T_1, 2T_1, 12T_{280}^*$	$15T_{88}^{+}$	233280	$[15, 12, 9, 3^2, 2^4, 1^6]$
[12, 2, 1]	$1T_1, 2T_1, 12T_{280}$ $1T_1, 2T_1, 12T_{280}^*$	$15T_{88}$ $15T_{90}$	466560	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$
[12, 2, 1]	$1T_1, 2T_1, 12T_{280}$ $1T_1, 2T_1, 12T_{289}^*$	$15T_{89}^{+}$	466560	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
[12, 2, 1]	$1T_1, 2T_1, 12T_{289}$ $1T_1, 2T_1, 12T_{289}^*$	$15T_{89}$ $15T_{91}$	466560	$[15, 12, 9, 6, 3, 2^4, 1^6]$
[12, 2, 1]	$1T_1, 2T_1, 12T_{289}$ $1T_1, 2T_1, 12T_{289}^*$	$15T_{93}$	933120	$[15, 12, 9, 6, 3, 2^5, 1^5]$
$[5^2, 4, 1]$			300	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$\begin{bmatrix} 5 & 4 & 1 \end{bmatrix}$	$1T_1, 4T_1^*, (5T_3^*)^2$	$15T_{19}^*$	1500	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[5^2, 4, 1]$	$1T_1, 4T_1^*, (5T_3^*)^2$	$15T_{38}^*$		[10, 0-, 4, 1]
$[5^2, 4, 1]$	$1T_1, 4T_1^*, (5T_3^*)^2$	$15T_{57}^{+*}$	6000	$[15, 5^2, 4^2, 1^{10}]$
$[5^2, 4, 1]$	$1T_1, 4T_1^*, (5T_3^*)^2$	$15T_{59}^{*}$	6000	$[15, 5^2, 4, 2^2, 1^9]$
$[5^2, 4, 1]$	$1T_1, 4T_1^*, (5T_3^*)^2$	$   \begin{array}{r}     15T_{67}^{+*} \\     15T_{75}^{*} \\     15T_{92}^{+}   \end{array} $	12000	$[15, 5^2, 4^2, 2, 1^9]$
$[5^2, 4, 1]$	$1T_1, 4T_1^*, (5T_3^*)^2$	$15T_{75}^{-}$	24000	$[15, 5^2, 4^3, 1^9]$
$[5^2, 4, 1]$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$15T_{92}$	648000	$[15, 5^2, 4^3, 3^3, 1^6]$
$[5^2, 4, 1]$	$1T_1, 4T_5^*, (5T_5)^2$	$15T_{95}$	1296000	$[15, 5^2, 4^3, 3^3, 2, 1^5]$
$[5^2, 4, 1]$	$1T_1, 4T_5^*, (5T_5)^2$	$15T_{98}^+$	2592000	$[15, 5^2, 4^3, 3^3, 2^2, 1^4]$
$[5^2, 4, 1]$	$1T_1, 4T_5^*, (5T_5)^2$	$15T_{101}$	5184000	$[15, 5^2, 4^3, 3^3, 2^3, 1^3]$
[10, 4, 1]	$1T_1, 4T_1^*, 10T_4^*$	$15T_{17}^{+*}$	300	$[15, 10, 2, 1^{12}]$
[10, 4, 1]	$1T_1, 4T_1^*, 10T_5^*$	$15T_{27}^*$	600	$[15, 10, 4, 1^{12}]$
[10, 4, 1]	$1T_1, 4T_1^*, 10T_{10}^*$	$15T_{37}^{+*}$	1500	$[15, 10, 5, 2, 1^{11}]$
[10, 4, 1]	$1T_1, 4T_1^*, 10T_{17}^*$	$15T_{49}^*$	3000	$[15, 10, 5, 4, 1^{11}]$
[10, 4, 1]	$1T_1, 4T_1^*, 10T_{21}^*$	$15T_{58}^{+*}$	6000	$[15, 10, 5, 2^3, 1^9]$
[10, 4, 1]	$1T_1, 4T_1^*, 10T_{27}^*$	$15T_{68}^{*}$	12000	$[15, 10, 5, 4, 2^2, 1^9]$
[10, 4, 1]	$1T_1, 4T_1^*, 10T_{33}^*$	$15T_{65}^{*}$	12000	$[15, 10, 5, 4^2, 1^{10}]$
[10, 4, 1]	$1T_1, 4T_1^*, 10T_{33}^*$	$15T_{66}^{*}$	12000	$[15, 10, 5, 4^2, 1^{10}]$
[10, 4, 1]	$1T_1, 4T_1^*, 10T_{33}^*$	$15T_{73}^{+*}$	24000	$[15, 10, 5, 4^2, 2, 1^9]$
1 1 1		-		oups of factors, $\mathcal{L}(G)$ : Initial Degrees
	(C). 2 38.000 OI	, 5(	- ,	r

Splitting table of degree 15

D(G)	S(G)	G	$\mid G \mid$	$\mathcal{L}(G)$
[10, 4, 1]	$1T_1, 4T_1^*, 10T_{33}^*$	$15T_{74}^*$	24000	$[15, 10, 5, 4^2, 2, 1^9]$
[10, 4, 1]	$1T_1, 4T_1^*, 10T_{33}^*$	$15T_{82}^*$	48000	$[15, 10, 5, 4^3, 1^9]$
[10, 4, 1]	$1T_1, 4T_4^{+*}, 10T_{40}$	$15T_{96}$	1296000	$[15, 10, 5, 4^3, 3^3, 1^6]$
[10, 4, 1]	$1T_1, 4T_5^*, 10T_{40}$	$15T_{94}^{+}$	1296000	$[15, 10, 5, 4^3, 3^3, 1^6]$
[10, 4, 1]	$1T_1, 4T_5^*, 10T_{41}$	$15T_{97}$	2592000	$[15, 10, 5, 4^3, 3^3, 2, 1^5]$
[10, 4, 1]	$1T_1, 4T_5^*, 10T_{43}$	$15T_{99}^{+}$	5184000	$[15, 10, 5, 4^3, 3^3, 2^2, 1^4]$
[10, 4, 1]	$1T_1, 4T_5^*, 10T_{43}$	$15T_{100}$	5184000	$[15, 10, 5, 4^3, 3^3, 2^2, 1^4]$
[10, 4, 1]	$1T_1, 4T_5^*, 10T_{43}$	$15T_{102}$	10368000	$[15, 10, 5, 4^3, 3^3, 2^3, 1^3]$
[8, 6, 1]	$1T_1, 6T_7^{+*}, 8T_{14}^{+*}$	$15T_{20}^{+}$	360	$[15, 8, 3, 1^{12}]$
[8, 6, 1]	$1T_1, 6T_7^{+*}, 8T_{24}^{+*}$	$15T_{28}^{+}$	720	$[15, 8, 3, 2, 1^{11}]$
[14, 1]	$1T_1, 14T_{10}^+$	$15T_{47}^{+}$	2520	$[15, 14, 12, 1^{12}]$
[14, 1]	$1T_1, 14T_{34}^+$	$15T_{72}^{+}$	20160	$[15, 14, 12, 8, 1^{11}]$
[14, 1]	$1T_1, 14T_{62}^+$	$15T_{103}^{+}$	15! / 2	$[15, \ldots, 3, 1^2]$
[14, 1]	$1T_1, 14T_{63}$	$15T_{104}$	15!	$[15,\ldots,1]$
G: Possible Ga	alois Groups, $D(G)$ : Degrees of	factors, S(	G): Galois Gro	oups of factors, $\mathcal{L}(G)$ : Initial Degrees

Splitting table of degree 16

D(G)	S(G)	G	G	$\mathcal{L}(G)$
$[1^{16}]$	$(1T_1)^{16}$		16	$[16, 1^{15}]$
$[1^{16}]$	$(1T_1)^{16}$	$16T_{2}^{+*}$	16	$[16, 1^{15}]$
$[1^{16}]$	$(1T_1)^{16}$	$16T_3^{+*}$	16	$[16, 1^{15}]$
$[1^{16}]$	$(1T_1)^{16}$	$16T_4^{+*}$	16	$[16, 1^{15}]$
$[1^{16}]$	$(1T_1)^{16}$	$16T_5^{+*}$	16	$[16, 1^{15}]$
$[1^{16}]$	$(1T_1)^{16}$	$16T_6^{+*}$	16	$[16, 1^{15}]$
$[1^{16}]$	$ \begin{array}{c} (1T_1)^{16} \\ (1T_1)^{16} \\ (1T_1)^{16} \\ (1T_1)^{16} \\ (1T_1)^{16} \end{array} $	$\begin{array}{c} 16T_1^* \\ 16T_2^{+*} \\ 16T_3^{+*} \\ 16T_4^{+*} \\ 16T_5^{+*} \\ 16T_6^{+*} \\ 16T_6^{+*} \\ 16T_7^{+*} \\ 16T_8^{+*} \\ 16T_{10}^{+*} \\ 16T_{10}^{+*} \\ 16T_{11}^{+*} \\ 16T_{12}^{+*} \\ 16T_{13}^{+*} \\ 16T_{14}^{+*} \\ 16T_{15}^{+*} \\ 16T_{15}^{+*} \\ 16T_{17}^{+*} \\ 16T_{19}^{+*} \\ 16T_{19}^{+*} \\ 16T_{20}^{+*} \\ 16T_{21}^{+*} \\ 16T_{22}^{+*} \\ 16T_{23}^{+*} \\ 16T_{24}^{+*} \\ 16T_{35}^{+*} \\ 16T_{35}^{+*} \\ 16T_{35}^{+*} \\ 16T_{36}^{+*} \\ 16T_{39}^{+*} \\ 16T_{47}^{+*} \\ 16T_{$	16	$[16, 1^{15}]$
$[1^{16}]$	$(1T_1)^{10}$	$16T_8^{+*}$	16	$[16, 1^{15}]$
$[1^{16}]$	$(1T_1)^{16}$ $(1T_1)^{16}$	$16T_9^{+*}$	16	$[16, 1^{15}]$
$[1^{16}]$	$(1T_1)^{16}$	$16T_{10}^{+*}$	16	$[16, 1^{15}]$
$[1^{16}]$	$(1T_1)^{16}$	$16T_{11}^{+*}$	16	$[16, 1^{15}]$
$[1^{16}]$	$(1T_1)^{16}$	$16T_{12}^{+*}$	16	$[16, 1^{15}]$
$[1^{16}]$	$(1T_1)^{16}$ $(1T_1)^{16}$	$16T_{13}^{+*}$	16	$[16, 1^{15}]$
$[1^{16}]$	$(1T_1)^{16}$	$16T_{14}^{+*}$	16	$[16, 1^{15}]$
$[2^4, 1^8]$	$(1T_1)^8$ , $(2T_1)^4$	$16T_{15}^{+*}$	32	$ \begin{array}{c} [16, 2, 1^{14}] \\ [16, 2, 1^{14}] \end{array} $
$[2^4, 1^8]$	$(1T_1)^8, (2T_1)^4$	16716	32	$[16, 2, 1^{14}]$
$[2^4, 1^8]$	$(1T_1)^{\circ}, (2T_1)^{4}$	16T <sub>17</sub>	32	$[16, 2, 1^{14}]$
$[2^4, 1^8]$	$(1T_1)^8, (2T_1)^4$	16718	32	$ \begin{array}{c} [16, 2, 1^{14}] \\ [16, 2, 1^{14}] \end{array} $
$[2^4, 1^8]$	$(1T_1)^{\circ}, (2T_1)^{\circ}$	16T <sub>19</sub>	32	$[16, 2, 1^{14}]$
$[2^4, 1^8]$	$(1T_1)^8$ , $(2T_1)^4$	10T <sub>20</sub>	32	$ \begin{array}{c} [16, 2, 1^{14}] \\ [16, 2, 1^{14}] \end{array} $
$[2^4, 1^8]$	$(1T_1)^8$ , $(2T_1)^4$	101 <sub>21</sub>	32	$ \begin{array}{c c} [16, 2, 1^{14}] \\ [16, 2, 1^{14}] \\ [16, 2, 1^{14}] \end{array} $
$[2^4, 1^8]$	$(1T_1)^8$ , $(2T_1)^4$	101 <sub>22</sub>	32	[16, 2, 1 <sup>14</sup> ]
$ \begin{array}{ c c c c c } \hline [2^4, 1^8] \\ \hline [2^4, 1^8] \end{array} $	$(1T_1)^8, (2T_1)^4$ $(1T_1)^8, (2T_1)^4$	101 <sub>23</sub>	32 32	$ \begin{array}{c c} [16, 2, 1^{14}] \\ [16, 2, 1^{14}] \end{array} $
$ \begin{array}{ c c } \hline [2^4, 1^8] \\ \hline [2^4, 1^8] \end{array} $	$(11_1)$ , $(21_1)$ $(1T_1)^8$ $(2T_1)^4$	$\frac{10T_{24}}{16T^{+*}}$	32	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[2^4, 1^8]$	$(1T_1)^8$ , $(2T_1)^4$ $(1T_1)^8$ , $(2T_1)^4$	$16T_{25}$	32	$ \begin{array}{c c} [16, 2, 1^{14}] \\ [16, 2, 1^{14}] \\ [16, 2, 1^{14}] \end{array} $
$[2^4, 1^8]$	$(1T_1)^8$ $(2T_1)^4$	$16T_{22}^{+*}$	32	$[16, 2, 1^{14}]$
$[2^4, 1^8]$	$(1T_1)^8$ , $(2T_1)^4$ $(1T_1)^8$ , $(2T_1)^4$	16T <sub>33</sub>	32	$\frac{[16, 2, 1]}{[16, 2, 1]^{14}}$
$[2^4, 1^8]$	$(1T_1)^8, (2T_1)^4$	$16T_{2c}^{+*}$	32	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[2^4, 1^8]$	$(1T_1)^8, (2T_1)^4$	$16T_{20}^{+*}$	32	$ \begin{array}{c} [16, 2, 1^{14}] \\ [16, 2, 1^{14}] \end{array} $
$[2^4, 1^8]$	$(1T_1)^8$ , $(2T_1)^4$	$16T_{40}^{+*}$	32	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
$[2^4, 1^8]$	$(1T_1)^8$ , $(2T_1)^4$ $(1T_1)^8$ , $(2T_1)^4$	$16T_{42}^{+*}$	32	$[16, 2, 1^{14}]$
$ \begin{array}{c c} \hline [2^4, 1^8] \\ \hline [2^4, 1^8] \end{array} $	$(1T_1)^8$ , $(2T_1)^4$	$16T_{42}^{+*}$	32	$ \begin{array}{c} [16, 2, 1^{14}] \\ [16, 2, 1^{14}] \\ [16, 2, 1^{14}] \end{array} $
$[2^4, 1^8]$	$(1T_1)^8, (2T_1)^4$	$16T_{47}^{+*}$	32	$[16, 2, 1^{14}]$
$[2^4, 1^8]$	$(1T_1)^8$ , $(2T_1)^4$		32	$[16, 2, 1^{14}]$
$[2^4, 1^8]$	$(1T_1)^8, (2T_1)^4$	$16T_{-3}^{+*}$	32	$[16, 2, 1^{14}]$
$[2^4, 1^8]$	$(1T_1)^8, (2T_1)^4$	$16T_{53}^{+*}$	32	$[16, 2, 1^{14}]$
$[2^4, 1^8]$	$(1T_1)^8, (2T_1)^4$	$16T_{54}^{+*}$	32	$[16, 2, 1^{14}]$
$[4^2, 1^8]$	$(1T_1)^8, (4T_1^*)^2$	$16T_{50}^{++}$ $16T_{53}^{++}$ $16T_{54}^{++}$ $16T_{111}^{++}$ $16T_{121}^{++}$	64	$[16, 4, 1^{14}]$
$[4^2, 1^8]$	$(1T_1)^8, (4T_1^*)^2$	$16T_{114}^{+*}$	64	$[16, 4, 1^{14}]$
$[4^2, 1^8]$	$(1T_1)^8, (4T_1^*)^2$	$16T_{121}^{+*}$	64	$[16, 4, 1^{14}]$
$[4^2, 1^8]$	$(1T_1)^8, (4T_1^*)^2$	$16T_{124}^*$	64	$[16, 4, 1^{14}]$
$[4^2, 1^8]$	$(1T_1)^8, (4T_1^*)^2$		64	$[16, 4, 1^{14}]$
$[4^2, 1^8]$	$(1T_1)^8, (4T_1^*)^2$	$16T_{139}^{+*}$	64	$[16, 4, 1^{14}]$
$[4^2, 1^8]$	$(1T_1)^8, (4T_1^*)^2$		64	$[16, 4, 1^{14}]$
G: Poss	sible Galois Groups, $D(G)$ : Degrees o	of factors, $S(G)$	'): Galois Group	s of factors, $\mathcal{L}(G)$ : Initial Degrees

Splitting table of degree 16

D(C)	C(C)		C(C)	
D(G)	S(G)	$G \qquad  G $	$\mathcal{L}(G)$	
$[4^2, 1^8]$	$(1T_1)^8, (4T_1^*)^2$	16T <sub>168</sub> 64	$[16, 4, 1^{14}]$	
$[4^2, 1^8]$	$(1T_1)^8$ , $(4T_2^{+*})^2$ $(1T_1)^8$ , $(4T_2^{+*})^2$	$16T_{79}^{+*}$ 64	$[16, 4, 1^{14}]$	
$[4^2, 1^8]$	$(1T_1)^8, (4T_2^{+*})^2$	$16T_{95}^{+*}$ 64	$[16, 4, 1^{14}]$	
$[4^2, 1^8]$	$ \frac{(1T_1)^8, (4T_2^{++})^2}{(1T_1)^8, (4T_2^{++})^2} $	$16T_{105}^{+*}$ 64	$[16, 4, 1^{14}]$	
$[4^2, 1^8]$	$(1T_1)^8, (4T_2^{+*})^2$	$16T_{117}^{+*}$ 64	$[16, 4, 1^{14}]$	
$[4^2, 1^8]$	$(1T_1)^8, (4T_2^{+*})^2$	$16T_{149}^{+*}$ 64	$[16, 4, 1^{14}]$	
$[4^2, 1^8]$	$(1T_1)^{\circ}, (4T_2^{\circ})^{\circ}$	$16T_{158}^{+*}$ 64	$[16, 4, 1^{14}]$	
[8, 18]	1 (1/07 ) 8 (2/07) *	$16T_{289}^*$ 128	$[16, 8, 1^{14}]$	
$[8, 1^8]$	$(1T_1)^8, 8T_2^{+*}$	$16T_{211}^{+*}$ 128	$[16, 8, 1^{14}]$	
$[8, 1^8]$	$(1T_1)^8, 8T_3^{+*}$	$16T_{325}^{+*}$ 128	$[16, 8, 1^{14}]$	
$[8, 1^8]$	$(1T_1)^8, 8T_4^{+*}$	$16T_{388}^{+*}$ 128	$[16, 8, 1^{14}]$	
$[8, 1^8]$	$(1T_1)^8, 8T_5^{+*}$	$16T_{370}^{+*}$ 128	$[16, 8, 1^{14}]$	
$ \begin{array}{c c} [2^6, 1^4] \\ [2^6, 1^4] \end{array} $	$(1T_1)^4, (2T_1)^6$	$16T_{26}^{+*}$ 32	$[16, 2, 1^{14}]$	
$[2^6, 1^4]$	$(1T_1)^4$ , $(2T_1)^6$	$16T_{27}^{+*}$ 32	$[16, 2, 1^{14}]$	
$[2^6, 1^4]$	$(1T_1)^5, 8T_1$ $(1T_1)^8, 8T_2^{+*}$ $(1T_1)^8, 8T_3^{+*}$ $(1T_1)^8, 8T_4^{+*}$ $(1T_1)^8, 8T_5^{+*}$ $(1T_1)^4, (2T_1)^6$	$16T_{28}^{+*}$ 32	$[16, 2, 1^{14}]$	
$[2^6, 1^4]$	$(1T_1)^4$ , $(2T_1)^6$	$16T_{29}^{+*}$ 32	$[16, 2, 1^{14}]$	
$[2^6, 1^4]$	$(1T_1)^4$ , $(2T_1)^6$	$16T_{30}^{+*}$ 32	$[16, 2, 1^{14}]$	
$[2^6, 1^4]$	$(1T_1)^4$ , $(2T_1)^6$	$16T_{32}^{+*}$ 32	$ \begin{bmatrix} 10^{3}, 2^{3}, 2^{14} \\ 16^{3}, 2^{14} \end{bmatrix} $	
$[2^6, 1^4]$	$(1T_1)^4, (2T_1)^6$	$16T_{34}^{+*}$ 32	$ \begin{array}{c c} [16, 2, 1^{14}] \\ [16, 2, 1^{14}] \end{array} $	
$[2^6, 1^4]$	$(1T_1)^4$ , $(2T_1)^6$	$16T_{37}^{+*}$ 32	$[16, 2, 1]$ $[16, 2, 1^{14}]$	
$[2^6, 1^4]$	$(1T_1)^4, (2T_1)^6$	$16T_{38}^{+*}$ 32	$[16, 2, 1^{14}]$	
$[2^6, 1^4]$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$16T_{38}^{-38}$ $32$	$ \begin{array}{c} [16, 2, 1^{14}] \\ [16, 2, 1^{14}] \end{array} $	
$[2^6, 1^4]$	$(1T_1)^4, (2T_1)^6$	$16T_{44}^{+*}$ 32	$[16, 2, 1]$ $[16, 2, 1^{14}]$	
$[2^6, 1^4]$	$(1T_1)^4$ , $(2T_1)^6$ $(1T_1)^4$ , $(2T_1)^6$	$16T_{44}$ $32$ $16T_{45}^{+*}$ $32$	$ \begin{array}{c c} [16, 2, 1^{14}] \\ [16, 2, 1^{14}] \end{array} $	
$[2^6, 1^4]$	(111), $(211)$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$[16, 2, 1]$ $[16, 2, 1^{14}]$	
[2 , 1 ]	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$16T_{46}$ 32 $16T_{48}^{+*}$ 32		
$[2^6, 1^4]$	$(1T_1)^4$ , $(2T_1)^6$	101 <sub>48</sub> 52	$[16, 2, 1^{14}]$	
$[2^6, 1^4]$	$(1T_1)^4$ , $(2T_1)^6$	$16T_{51}^{+*}$ 32	$[16, 2, 1^{14}]$	
$[2^6, 1^4]$	$(1T_1)^4$ , $(2T_1)^6$ $(1T_1)^4$ , $(2T_1)^6$	$16T_{52}^{+*}$ 32	$[16, 2, 1^{14}]$	
$[2^6, 1^4]$	$(1T_1)^4$ , $(2T_1)^6$	16T <sub>67</sub> <sup>+*</sup> 64	$[16, 2^2, 1^{13}]$	
$[2^6, 1^4]$	$(1T_1)^4$ , $(2T_1)^6$	16T <sub>68</sub> <sup>+*</sup> 64	$ \begin{array}{c c} [16, 2^2, 1^{13}] \\ [16, 2^2, 1^{13}] \\ [16, 2^2, 1^{13}] \\ [16, 2^2, 1^{13}] \end{array} $	
$[2^6, 1^4]$	$(1T_1)^4$ , $(2T_1)^6$	16T <sub>69</sub> <sup>+*</sup> 64	$[16, 2^2, 1^{13}]$	
$[2^6, 1^4]$	$(1T_1)^4$ , $(2T_1)^6$	$16T_{70}^{+*}$ 64	$[16, 2^2, 1^{13}]$	
$[2^6, 1^4]$	$(1T_1)^4$ , $(2T_1)^6$	$16T_{71}^{+*}$ 64	$ \begin{array}{c} [16, 2^2, 1^{13}] \\ [16, 2^2, 1^{13}] \end{array} $	
$[2^6, 1^4]$	$(1T_1)^4$ , $(2T_1)^6$	$16T_{77}^{+*}$ 64	$[16, 2^2, 1^{13}]$	
$[2^6, 1^4]$	$(1T_1)^4$ , $(2T_1)^6$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$[16, 2^2, 1^{13}]$	
$[2^6, 1^4]$	$(1T_1)^4, (2T_1)^6$	$16T_{85}^{+*}$ 64	$[16, 2^2, 1^{13}]$	
$[2^6, 1^4]$	$(1T_1)^4, (2T_1)^6$	$16T_{86}^{+*}$ 64	$[16, 2^2, 1^{13}]$	
$[2^6, 1^4]$	$(1T_1)^4, (2T_1)^6$	$16T_{88}^{+*}$ 64	$[16, 2^2, 1^{13}]$	
$[2^6, 1^4]$	$(1T_1)^4, (2T_1)^6$	$16T_{90}^{+*}$ 64	$[16, 2^2, 1^{13}]$	
$[2^6, 1^4]$	$(1T_1)^4, (2T_1)^6$	$16T_{91}^{++}$ 64	$[16, 2^2, 1^{13}]$	
$[2^6, 1^4]$	$(1T_1)^4$ , $(2T_1)^6$	$16T_{92}^{+*}$ 64	$[16, 2^2, 1^{13}]$	
$[2^6, 1^4]$	$(1T_1)^4, (2T_1)^6$	$16T_{94}^{+*}$ 64	$[16, 2^2, 1^{13}]$	
$[2^6, 1^4]$	$(1T_1)^4$ , $(2T_1)^6$	$16T_{97}^{+*}$ 64	$[16, 2^2, 1^{13}]$	
$[2^6, 1^4]$	$(1T_1)^4, (2T_1)^6$	$16T_{99}^{+*}$ 64	$[16, 2^2, 1^{13}]$	
$[2^6, 1^4]$	$(1T_1)^4, (2T_1)^6$	$16T_{100}^{+*}$ 64	$[16, 2^2, 1^{13}]$	
		·		
$G$ : Possible Galois Groups, $D(G)$ : Degrees of factors, $S(G)$ : Galois Groups of factors, $\mathcal{L}(G)$ : Initial Degrees				

Splitting table of degree 16

D(G)	S(G)	G $G$	$\mathcal{L}(G)$	
$[2^6, 1^4]$	$(1T_1)^4, (2T_1)^6$	$16T_{101}^{+*}$ 64	$[16, 2^2, 1^{13}]$	
$[2^6, 1^4]$	$(1T_1)^4$ , $(2T_1)^6$	$16T_{102}^{+*}$ 64	$   \begin{bmatrix}     16, 2, 1 \\     \hline     16, 2^2, 1^{13}   \end{bmatrix} $	
$[2^6, 1^4]$	$(1T_1)^4, (2T_1)^6$	$16T_{103}^{+*}$ 64	$   \begin{bmatrix}     16, 2^2, 1^{13} \\     \hline     16, 2^2, 1^{13}   \end{bmatrix} $	
$[2^6, 1^4]$	$(1T_1)^4, (2T_1)^6$	$16T_{104}^{*}$ 64	$   \begin{bmatrix}     16, 2^2, 1^{13} \\     \hline     16, 2^2, 1^{13}   \end{bmatrix} $	
$[2^6, 1^4]$	$(1T_1)^4, (2T_1)^6$	$16T_{106}^{+*}$ 64	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$[2^6, 1^4]$	$(1T_1)^4, (2T_1)^6$	$16T_{108}^{+*}$ 64	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$[2^6, 1^4]$	$(1T_1)^4, (2T_1)^6$	$16T_{108}^{+*}$ 64	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$[2^6, 1^4]$	$(1T_1)^4$ , $(2T_1)^6$ $(1T_1)^4$ , $(2T_1)^6$	$16T_{112}^{+*}$ 64	$   \begin{bmatrix}     16, 2, 1 \\     \hline     16, 2^2, 1^{13}   \end{bmatrix} $	
$[2^6, 1^4]$	$(1T_1)^4, (2T_1)^6$	$16T_{119}^{+*}$ 64	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$[2^6, 1^4]$	$(1T_1)^4, (2T_1)^6$	$16T_{123}^{+*}$ 64	$   \begin{bmatrix}     16, 2, 1 \\     \hline     16, 2^2, 1^{13}   \end{bmatrix} $	
$[2^6, 1^4]$	$(1T_1)^4, (2T_1)^6$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$[2^6, 1^4]$	$(1T_1)^4, (2T_1)^6$	$16T_{140}^{+*}$ $64$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$[2^6, 1^4]$	$(1T_1)^4, (2T_1)^6$	$16T_{150}^{+*}$ $64$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$[2^6, 1^4]$	$(1T_1)^4$ , $(2T_1)^6$	$16T_{152}^{+*}$ $64$	$ \begin{array}{c} [16, 2^2, 1^{13}] \\ [16, 2^2, 1^{13}] \end{array} $	
$[2^6, 1^4]$	$(1T_1)^4$ , $(2T_1)^6$	101 <sub>160</sub> 04	[10, 2 , 1 ]	
$[2^6, 1^4]$	$(1T_1)^4$ , $(2T_1)^6$	$16T_{167}^{+*}$ 64	$ \begin{array}{c} [16, 2^2, 1^{13}] \\ [16, 2^2, 1^{13}] \end{array} $	
$[2^6, 1^4]$	$(1T_1)^4$ , $(2T_1)^6$	$16T_{170}^{+*}$ 64	$[16, 2^2, 1^{13}]$	
$[2^6, 1^4]$	$ \begin{array}{c} (-1)^4, \ (-1)^6 \\ (1T_1)^4, \ (2T_1)^6 \\ (1T_1)^4, \ (2T_1)^6 \\ (1T_1)^4, \ (2T_1)^6 \end{array} $	$16T_{171}^{+*}$ 64	$\begin{bmatrix} 16, 2^2, 1^{13} \end{bmatrix}$	
$[2^6, 1^4]$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$[16, 2^2, 1^{13}]$	
$[2^6, 1^4]$	$(1T_1)^4$ , $(2T_1)^6$	16T <sub>174</sub> 64	$[16, 2^2, 1^{13}]$	
$[2^6, 1^4]$	$(1T_1)^4$ , $(2T_1)^6$ $(1T_1)^4$ , $(2T_1)^6$	16T <sub>175</sub> 64	$[16, 2^2, 1^{13}]$	
$[2^6, 1^4]$	$(1T_1)^4$ , $(2T_1)^6$	16T <sub>177</sub> 64	$[16, 2^2, 1^{13}]$	
$[2^6, 1^4]$	$(1T_1)^4$ , $(2T_1)^6$	16T <sub>208</sub> <sup>+*</sup> 128	$[16, 2^3, 1^{12}]$	
$ \begin{array}{c c} \hline [2^6, 1^4] \\ \hline [2^6, 1^4] \end{array} $	$(1T_1)^4$ , $(2T_1)^6$	$16T_{246}^{+*}$ 128	$[16, 2^3, 1^{12}]$	
$[2^6, 1^4]$	$(1T_1)^4$ , $(2T_1)^6$	16T <sub>258</sub> <sup>+*</sup> 128	$[16, 2^3, 1^{12}]$	
$[2^6, 1^4]$	$(1T_1)^4$ , $(2T_1)^6$	$16T_{261}^{+*}$ 128	$[16, 2^3, 1^{12}]$	
$[2^6, 1^4]$	$(1T_1)^4$ , $(2T_1)^6$	$16T_{270}^{+*}$ 128	$[16, 2^3, 1^{12}]$	
$[2^6, 1^4]$	$(1T_1)^4$ , $(2T_1)^6$	$16T_{279}^{+*}$ 128	$[16, 2^3, 1^{12}]$	
$[2^6, 1^4]$	$(1T_1)^4$ , $(2T_1)^6$	16T <sub>292</sub> <sup>+*</sup> 128	$[16, 2^3, 1^{12}]$	
$[2^6, 1^4]$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c cccc} 16T_{261}^{+*} & 128 \\ \hline 16T_{270}^{+*} & 128 \\ \hline 16T_{279}^{+*} & 128 \\ \hline 16T_{292}^{+*} & 128 \\ \hline 16T_{396}^{+*} & 128 \\ \hline 16T_{333}^{+*} & 128 \\ \hline 16T_{364}^{+*} & 128 \\ \hline 16T_{493}^{+*} & 128 \\ \hline 16T_{400}^{+*} & 128 \\ \hline 16T_{403}^{+*} & 128 \\ \hline \end{array}$	$[16, 2^3, 1^{12}]$	
$[2^6, 1^4]$	$(1T_1)^4$ , $(2T_1)^6$	$16T_{333}^{+*}$ 128	$[16, 2^3, 1^{12}]$	
$[2^6, 1^4]$	$(1T_1)^4$ , $(2T_1)^6$	$16T_{364}^{+*}$ 128	$[16, 2^3, 1^{12}]$	
$[2^6, 1^4]$	$(1T_1)^4$ , $(2T_1)^6$	$16T_{396}^{+*}$ 128	$[16, 2^3, 1^{12}]$	
$[2^6, 1^4]$	$(1T_1)^4$ , $(2T_1)^6$	$16T_{400}^{+*}$ 128	$[16, 2^3, 1^{12}]$	
$[2^6, 1^4]$	$(1T_1)^4$ , $(2T_1)^6$		$[16, 2^3, 1^{12}]$	
$[2^6, 1^4]$	$(1T_1)^4, (2T_1)^6$	$16T_{406}^{+*}$ 128	$[16, 2^3, 1^{12}]$	
$[4, 2^4, 1^4]$	$(1T_1)^4$ , $(2T_1)^4$ , $4T_2^{+*}$	$16T_{81}^{+*}$ 64	$[16, 2^2, 1^{13}]$	
$[4, 2^4, 1^4]$	$(1T_1)^4$ , $(2T_1)^4$ , $4T_2^{+*}$	$16T_{109}^{+*}$ 64	$[16, 2^2, 1^{13}]$	
$[4, 2^4, 1^4]$	$(1T_1)^4$ , $(2T_1)^4$ , $4T_2^{+*}$	$16T_{115}^{+*}$ 64	$[16, 4, 1^{14}]$	
$[4, 2^4, 1^4]$	$(1T_1)^4$ , $(2T_1)^4$ , $4T_2^{+*}$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$[16, 2^2, 1^{13}]$	
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_1^*)^2$	$16T_{74}^{+*}$ 64	$[16, 2^2, 1^{13}]$	
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_1^*)^2$	$16T_{76}^{+*}$ 64	$[16, 2^2, 1^{13}]$	
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_1^*)^2$	$16T_{96}^{+*}$ 64	$[16, 2^2, 1^{13}]$	
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_1^*)^2$	$16T_{107}^{-*}$ 64	$[16, 2^2, 1^{13}]$	
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_1^*)^2$	$16T_{110}^{+*}$ 64	$[16, 2^2, 1^{13}]$	
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_1^*)^2$	$16T_{113}^{+*}$ 64	$[16, 2^2, 1^{13}]$	
$G$ : Possible Galois Groups, $D(G)$ : Degrees of factors, $S(G)$ : Galois Groups of factors, $\mathcal{L}(G)$ : Initial Degrees				

Splitting table of degree 16

D(G)	S(G)		$\mathcal{L}(G)$		
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_1^*)^2$	$16T_{120}^{+*}$ 64	$[16, 2^2, 1^{13}]$		
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_1)^2$	$16T_{120}^{*}$ $64$	$ \begin{array}{c cccc}                                 $		
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_1)^2$	$16T_{125}^{+*}$ 64	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_1)^2$	$16T_{131}^{+*}$ 64	$[16, 2^{1}, 1^{1}]$ $[16, 2^{2}, 1^{13}]$		
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_1)^2$	$16T_{131}^{+*}$ 64	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		
	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_1)^2$	$16T_{138}^{+*}$ 64	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_1^*)^2$	$16T_{153}^{+*}$ $64$	$ \begin{array}{c c} [10, 2, 1] \\ [16, 2^2, 1^{13}] \end{array} $		
$[4^{2}, 2^{2}, 1^{4}]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_1^*)^2$	104			
	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_1^*)^2$	16T <sub>161</sub> <sup>+*</sup> 64			
	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_1^*)^2$	16T <sub>163</sub> <sup>+*</sup> 64	$[16, 2^2, 1^{13}]$		
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_1^*)^2$	16T <sub>164</sub> <sup>+*</sup> 64	$[16, 2^2, 1^{13}]$		
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_1^*)^2$	16T <sub>165</sub> <sup>+*</sup> 64	$[16, 2^2, 1^{13}]$		
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_1^*)^2$	16T <sub>172</sub> 64	$[16, 4, 1^{14}]$		
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_1^*)^2$	$16T_{205}^{+*}$ 128	$[16, 4, 2, 1^{13}]$		
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_1^*)^2$	$16T_{207}^{+*}$ 128	$[16, 4, 2, 1^{13}]$		
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_1^*)^2$	$16T_{215}^{+*}$ 128	$[16, 4, 2, 1^{13}]$		
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_1^*)^2$	$16T_{220}^*$ 128	$[16, 4, 2, 1^{13}]$		
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_1^*)^2$	$16T_{242}^*$ 128	$[16, 4, 2, 1^{13}]$		
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_1^*)^2$	$\begin{array}{c cccc} 16T_{205}^{+*} & 128 \\ 16T_{207}^{+*} & 128 \\ \hline 16T_{215}^{+*} & 128 \\ \hline 16T_{215}^{**} & 128 \\ \hline 16T_{220}^{**} & 128 \\ \hline 16T_{242}^{**} & 128 \\ \hline 16T_{251}^{+*} & 128 \\ \hline 16T_{291}^{+*} & 128 \\ \hline 16T_{294}^{+*} & 128 \\ \hline \end{array}$	$[16, 4, 2, 1^{13}]$		
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_1^*)^2$	$16T_{291}^{+*}$ 128	$[16, 4, 2, 1^{13}]$		
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_1^*)^2$	$16T_{294}^{+*}$ 128	$[16, 4, 2, 1^{13}]$		
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_1^*)^2$	$16T_{303}^{+*}$ 128	$[16, 4, 2, 1^{13}]$		
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_1^*)^2$	$16T_{311}^{+*}$ 128	$[16, 4, 2, 1^{13}]$		
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_1^*)^2$	$16T_{314}^{+*}$ 128	$[16, 4, 2, 1^{13}]$		
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_1^*)^2$	$\begin{array}{c cccc} 16T_{314}^{+*} & 128 \\ 16T_{321}^{+*} & 128 \\ \hline 16T_{322}^{+*} & 128 \\ \hline 16T_{322}^{+*} & 128 \\ \hline 16T_{327}^{+*} & 128 \\ \hline 16T_{334}^{+*} & 128 \\ \hline 16T_{360}^{+*} & 128 \\ \hline 16T_{513}^{+*} & 256 \\ \hline \end{array}$	$[16, 4, 2, 1^{13}]$		
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_1^*)^2$	$16T_{322}^{+*}$ 128	$[16, 4, 2, 1^{13}]$		
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_1^*)^2$	$16T_{327}^{+*}$ 128	$[16, 4, 2, 1^{13}]$		
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_1^*)^2$	$16T_{334}^{+*}$ 128	$[16, 4, 2, 1^{13}]$		
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_1^*)^2$	$16T_{353}^{+*}$ 128	$[16, 4, 2, 1^{13}]$		
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_1^*)^2$	$16T_{360}^{+*}$ 128	$[16, 4, 2, 1^{13}]$		
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_1^*)^2$	$16T_{513}^{+*}$ 256	$[16, 4, 2^2, 1^{12}]$		
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_1^*)^2$	$16T_{526}^{+*}$ 256	$[16, 4, 2^2, 1^{12}]$		
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_1^*)^2$	$ \begin{array}{ccc} 16T_{526}^{+*} & 256 \\ 16T_{597}^{+*} & 256 \end{array} $	$[16, 4, 2^2, 1^{12}]$		
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_1^*)^2$	$16T_{629}^{*}$ 256	$[16, 4, 2^2, 1^{12}]$		
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_2^{+*})^2$	$16T_{72}^{+*}$ 64	$[16, 4, 1^{14}]$		
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_2^{+*})^2$	$16T_{73}^{+*}$ 64	$[16, 4, 1^{14}]$		
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_2^{+*})^2$	$16T_{75}^{+*}$ 64	$[16, 4, 1^{14}]$		
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_2^{+*})^2$	$16T_{82}^{+*}$ 64	$   \begin{bmatrix}     16, 4, 1^{14}   \end{bmatrix} $		
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_2^{+*})^2$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$     \begin{bmatrix}       16, 4, 1^{14} \\       \hline     \end{bmatrix}   $		
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_2^{+*})^2$	$16T_{87}^{+*}$ 64	$[16, 4, 1^{14}]$		
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_2^{+*})^2$	$16T_{89}^{+*}$ 64	[16, 4, 1] $[16, 4, 1]$		
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_2)^2$	$16T_{89}^{+*}$ 64	[16, 4, 1]		
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_2)^2$		$[16, 4, 1]$ $[16, 2^2, 1^{13}]$		
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_2)^2$	110	0 10		
$[4^{2}, 2^{2}, 1^{4}]$		144	141		
		$16T_{126}^{+*}$ 64	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		
	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_2^{+*})^2$	$16T_{128}^{+*}$ 64			
$G$ : Possible Galois Groups, $D(G)$ : Degrees of factors, $S(G)$ : Galois Groups of factors, $\mathcal{L}(G)$ : Initial Degrees					

 $\Longrightarrow$ 

Splitting table of degree 16

D(C)	S(C)			
D(G)	S(G)	$G \qquad  G $		
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_2^{+*})^2$	$16T_{130}^{+*}$ 64	$[16, 4, 1^{14}]$	
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_2^{+*})^2$	$16T_{142}^{+*}$ 64	$[16, 4, 1^{14}]$	
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_2^{+*})^2$	$16T_{151}^{+*}$ 64	$[16, 2^2, 1^{13}]$	
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_2^{+*})^2$	$16T_{155}^{+*}$ 64	$[16, 4, 1^{14}]$	
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_2^{+*})^2$	$16T_{162}^{+*}$ 64	$[16, 2^2, 1^{13}]$	
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_2^{+*})^2$	$16T_{169}^{+*}$ 64	$[16, 4, 1^{14}]$	
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_2^{+*})^2$	$\begin{array}{ccc} 16T_{155}^{+*} & 64 \\ 16T_{155}^{+*} & 64 \\ 16T_{169}^{+*} & 64 \\ 16T_{198}^{+*} & 128 \end{array}$		
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_2^{+*})^2$	$16T_{201}^{+*}$ 128	$[16, 4, 2, 1^{13}]$	
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_2^{+*})^2$	$16T_{210}^{+*}$ 128	$[16, 4, 2, 1^{13}]$	
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_2^{+*})^2$	$16T_{217}^{+*}$ 128	$[16, 4, 2, 1^{13}]$	
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_2^{+*})^2$	$ \begin{array}{c cccc} 16T_{237}^{+*} & 128 \\ 16T_{240}^{+*} & 128 \end{array} $	$[16, 4, 2, 1^{13}]$	
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_2^{+*})^2$	$16T_{240}^{+*}$ 128		
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_2^{+*})^2$	$\pm 16T_{-}^{+*} \pm 128$		
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_2^{+*})^2$	$16T_{249}^{+*}$ 128	$[16, 4, 2, 1^{13}]$	
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_2^{+*})^2$	$16T_{245}^{+*}$ $128$ $16T_{249}^{+*}$ $128$ $16T_{252}^{+*}$ $128$ $16T_{253}^{+*}$ $128$ $16T_{273}^{+*}$ $128$		
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_2^{+*})^2$	$16T_{253}^{+*}$ 128	$\begin{bmatrix} 16, 4, 2, 1^{13} \end{bmatrix}$	
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_2^{+*})^2$	$16T_{257}^{+*}$ 128	$\begin{bmatrix} 16, & 1, & 2, & 1 \\ 16, & 4, & 2, & 1^{13} \end{bmatrix}$	
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_2^{+*})^2$	$16T_{273}^{+*}$ $128$		
$[4^2, 2^2, 1^4]$	$(1T_1)^4, (2T_1)^2, (4T_2^{+*})^2$	$16T_{273}^{+*}$ $128$		
$[4^2, 2^2, 1^4]$	$(1T_1)^4, (2T_1)^2, (4T_2^{+*})^2$	$16T_{274}^{+*}$ $128$		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$(11_1)$ , $(21_1)$ , $(41_2)$		$\begin{bmatrix} 10, 4, 2, 1 \\ \end{bmatrix}$ $\begin{bmatrix} 16, 4, 2, 1^{13} \end{bmatrix}$	
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_2^{+*})^2$			
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_2^{+*})^2$	$16T_{350}^{+*}$ 128		
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_2^{+*})^2$	$16T_{373}^{+*}$ 128		
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_2^{+*})^2$	$\begin{array}{cccc} 16T_{350} & 128 \\ 16T_{373}^{+*} & 128 \\ \hline 16T_{528}^{+*} & 256 \\ \hline 16T_{540}^{+*} & 256 \\ \hline 16T_{554}^{+*} & 256 \\ \hline 16T_{209}^{+*} & 128 \\ \hline \end{array}$		
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_2^{+*})^2$	$16T_{540}^{+*}$ 256	$[16, 4, 2^2, 1^{12}]$	
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_2^{+*})^2$	$16T_{554}^{+*}$ 256		
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_2^{+*})^2$	$16T_{623}^{+*}$ 256		
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_3^*)^2$	$16T_{209}^{+*}$ 128		
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_3^*)^2$	$10I_{223}$ 128		
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_3^*)^2$	$16T_{227}^{+*}$ 128		
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_3^*)^2$	$16T_{235}^{+*}$ 128		
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_3^*)^2$	$16T_{243}^{+*}$ 128		
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_3^*)^2$	$16T_{247}^{+*}$ 128		
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_3^*)^2$	$16T_{248}^{+*}$ 128		
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_3^*)^2$	$16T_{264}^{+*}$ 128	$[16, 4, 2, 1^{13}]$	
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_3^*)^2$	$16T_{265}^{+*}$ 128		
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_3^*)^2$	$16T_{271}^{+*}$ 128		
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_3^*)^2$	$16T_{280}^{+*}$ 128		
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_3^*)^2$	$16T_{283}^{+*}$ 128		
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_3^*)^2$	$16T_{293}^{+*}$ 128		
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_3^*)^2$	$16T_{299}^{+*}$ $128$	2	
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_3^*)^2$	$16T_{300}^{+*}$ $128$		
$[4^2, 2^2, 1^4]$	$(1T_1)^4, (2T_1)^2, (4T_3)^2$	$16T_{300}^{+*}$ $128$		
$[4^{2}, 2^{2}, 1^{4}]$	$(1T_1)^4, (2T_1)^2, (4T_3)^2$	$16T_{302}$ $128$		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		077		
	-	940		
$G$ : Possible Galois Groups, $D(G)$ : Degrees of factors, $S(G)$ : Galois Groups of factors, $\mathcal{L}(G)$ : Initial Degrees				

Splitting table of degree 16

D(0)			4(0)
D(G)	S(G)	$G \mid G \mid$	$\mathcal{L}(G)$
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_3^*)^2$	$16T_{393}^{+*}$ 128	$[16, 4, 2, 1^{13}]$
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_3^*)^2$	$\begin{array}{c cccc} 16T_{393}^{+*} & 128 \\ \hline 16T_{401}^{+*} & 128 \\ \hline 16T_{509}^{+*} & 256 \\ \hline 16T_{547}^{+*} & 256 \\ \hline \end{array}$	$[16, 4, 2, 1^{13}]$
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_3^*)^2$	$16T_{509}^{+*}$ 256	$[16, 4, 2^2, 1^{12}]$
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_3^*)^2$	$16T_{547}^{+*}$ 256	$[16, 4, 2^2, 1^{12}]$
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_3^*)^2$	$16T_{595}^{+*}$ 256	$[16, 4, 2^2, 1^{12}]$
$[4^2, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $(4T_3^*)^2$	$16T_{610}^{+*}$ 256	$[16, 4, 2^2, 1^{12}]$
$[8, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $8T_1^*$	$16T_{260}^*$ 128	$[16, 4, 2, 1^{13}]$
$[8, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $8T_2^{+*}$	$16T_{225}^{+*}$ 128	$[16, 4, 2, 1^{13}]$
$[8, 2^2, 1^4]$	$\begin{array}{c} (1T_1)^4, \ (2T_1)^2, \ 8T_2^{+*} \\ (1T_1)^4, \ (2T_1)^2, \ 8T_2^{+*} \\ (1T_1)^4, \ (2T_1)^2, \ 8T_2^{+*} \\ \end{array}$	$16T_{230}^{+*}$ 128	$[16, 4, 2, 1^{13}]$
$[8, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $8T_2^{+*}$	$16T_{254}^{+*}$ 128	$[16, 4, 2, 1^{13}]$
$[8, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $8T_2^{+*}$	$\begin{array}{c cccc} 16T_{225}^{+*} & 128 \\ \hline 16T_{230}^{+*} & 128 \\ \hline 16T_{254}^{+*} & 128 \\ \hline 16T_{337}^{+*} & 128 \\ \hline 16T_{391}^{+*} & 128 \\ \hline 16T_{410}^{+*} & 128 \\ \hline 16T_{255}^{+*} & 128 \\ \hline 16T_{390}^{+*} & 128 \\ \hline \end{array}$	$[16, 4, 2, 1^{13}]$
$[8, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $8T_2^{+*}$	$16T_{391}^{+*}$ 128	$[16, 8, 1^{14}]$
$[8, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $8T_2^{+*}$	$16T_{410}^{+*}$ 128	$[16, 4, 2, 1^{13}]$
$[8, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $8T_3^{+*}$	$16T_{255}^{+*}$ 128	$[16, 4, 2, 1^{13}]$
$[8, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $8T_3^{+*}$	$16T_{390}^{+*}$ 128	$[16, 8, 1^{14}]$
$[8, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $8T_4^{+*}$	$16T_{376}^{+*}$ 128	$[16, 8, 1^{14}]$
$[8, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $8T_4^{+*}$	$16T_{382}^{+*}$ 128	$[16, 4, 2, 1^{13}]$
$[8, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $8T_4^{+*}$	$16T_{392}^{+*}$ 128	$[16, 4, 2, 1^{13}]$
$[8, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $8T_4^{+*}$	$16T_{407}^{+*}$ 128	$[16, 4, 2, 1^{13}]$
$[8, 2^2, 1^4]$	$ \begin{array}{c} (1T_1)^4, \ (2T_1)^2, \ 8T_4^{+*} \\ (1T_1)^4, \ (2T_1)^2, \ 8T_4^{+*} \end{array} $	$16T_{408}^{+*}$ 128	[16, 8, 1 <sup>14</sup> ]
$[8, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $8T_5^{+*}$	$16T_{338}^{+*}$ 128	[16, 4, 2, 1 <sup>13</sup> ]
$[8, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $8T_5^{+*}$	$16T_{380}^{+*}$ 128	$[16, 4, 2, 1^{13}]$
$[8, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $8T_7^*$	$16T_{568}^*$ 256	$[16, 8, 2, 1^{13}]$
$[8, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $8T_7^*$	$\begin{array}{c cccc} 16T_{408}^{+*} & 128 \\ \hline 16T_{338}^{+*} & 128 \\ \hline 16T_{380}^{+*} & 128 \\ \hline 16T_{568}^{+*} & 256 \\ \hline 16T_{580}^{*} & 256 \\ \hline 16T_{883}^{*} & 512 \\ \hline 16T_{478}^{+*} & 256 \\ \hline 16T_{511}^{+*} & 256 \\ \hline \end{array}$	$[16, 8, 2, 1^{13}]$
$[8, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $8T_7^*$	$16T_{883}^*$ 512	$[16, 8, 2^2, 1^{12}]$
$[8, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $8T_9^{+*}$	$16T_{478}^{+*}$ 256	$[16, 8, 2, 1^{13}]$
$[8, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $8T_9^{+*}$	$16T_{511}^{+*}$ 256	$[16, 8, 2, 1^{13}]$
$[8, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $8T_9^{+*}$	$16T_{542}^{+*}$ 256	$[16, 8, 2, 1^{13}]$
$[8, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $8T_9^{+*}$	$16T_{573}^{+*}$ 256	$[16, 8, 2, 1^{13}]$
$[8, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $8T_9^{+*}$	$16T_{602}^{+*}$ 256	$[16, 8, 2, 1^{13}]$
$[8, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $8T_9^{+*}$	$16T_{648}^{+*}$ 256	$[16, 8, 2, 1^{13}]$
$[8, 2^2, 1^4]$	$\begin{array}{c} (1T_1)^4, \ (2T_1)^2, \ 8T_9^{+*} \\ (1T_1)^4, \ (2T_1)^2, \ 8T_9^{+*} \\ (1T_1)^4, \ (2T_1)^2, \ 8T_9^{+*} \\ \end{array}$	$ \begin{array}{ccc}  & 16T_{648}^{+*} & 256 \\  & 16T_{919}^{+*} & 512 \end{array} $	$[16, 8, 2^2, 1^{12}]$
$[8, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $8T_{10}^{+*}$	$16T_{500}^{+*}$ 256	[16, 8, 2, 1 <sup>13</sup> ]
$[8, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $8T_{10}^{+*}$	$16T_{590}^{+*}$ 256	[16, 8, 2, 1 <sup>13</sup> ]
$[8, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $8T_{10}^{+*}$	$16T_{876}^{+*}$ 512	$[16, 8, 2^2, 1^{12}]$
$[8, 2^2, 1^4]$	$(1T.)^4 (2T.)^2 (2T^{+*})$	$16T_{480}^{+*}$ 256	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[8, 2^2, 1^4]$	$(1T_1)^4, (2T_1)^2, 8T_{11}^{+*}$	$16T_{484}^{+*}$ 256	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[8, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $8T_{11}^{+*}$	$16T_{503}^{+*}$ 256	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[8, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $8T_{11}^{+*}$	$16T_{515}^{+*}$ 256	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[8, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $8T_{11}^{+*}$	$16T_{527}^{+*}$ 256	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[8, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $8T_{11}^{+*}$	$16T_{539}^{+*}$ 256	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[8, 2^2, 1^4]$	$(1T_1)^4$ , $(2T_1)^2$ , $8T_{11}^{+*}$	$16T_{838}^{+*}$ 512	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[3^4, 1^4]$	$(1T_1)^4, (2T_1)^4, (3T_1^{+*})^4$	$16T_{57}^{+*}$ 48	[16, 3, 1 <sup>14</sup> ]
$[3^4, 1^4]$	$(1T_1)^4, (3T_1^{+*})^4$	$16T_{57}^{+*}$ 48	[16, 3, 1]
$[3^4, 1^4]$	$(1T_1)^4, (3T_1)^4$ $(1T_1)^4, (3T_1^{+*})^4$	$16T_{58}^{+*}$ 48 $16T_{59}^{+*}$ 48	[16, 3, 1]
-			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
G: Poss	ible Galois Groups, D(G): Degrees	or ractors, $o(G)$ : Garols G	roups of factors, $\mathcal{L}(G)$ : Initial Degrees

Splitting table of degree 16

D(G)	S(G)	G	$\mid G \mid$	$\mathcal{L}(G)$
$[3^4, 1^4]$	$(1T_1)^4$ , $(3T_1^{+*})^4$		48	$[16, 3, 1^{14}]$
$[3^4, 1^4]$	$(1T_1)^4, (3T_1^{+*})^4$	$16T_{60}^{+*} \\ 16T_{61}^{+*}$	48	$[16, 3, 1^{14}]$
$[3^4, 1^4]$	$(1T_1)^4, (3T_1^{+*})^4$	$16T_{61}^{+*}$	48	$[16, 3, 1^{14}]$
$[3^4, 1^4]$	$(1T_1)^4$ , $(3T_1^{+*})^4$	16T <sub>62</sub>	48	$[16, 3, 1^{14}]$
[94 14]	(111), $(911)$	101 <sub>65</sub>		$[16, 3, 1^{14}]$
$[3^4, 1^4]$	$(1T_1)^4$ , $(3T_1^{+*})^4$	101 <sub>66</sub>	48	
$[3^4, 1^4]$	$ \begin{array}{c} (1T_1)^4, \ (3T_2^*)^4 \\ (1T_1)^4, \ (3T_2^*)^4 \end{array} $	101 181	96	$[16, 3, 2, 1^{13}]$
$[3^4, 1^4]$	$\begin{array}{c} (1T_1)^4, \ (3T_2^*)^4 \\ (1T_1)^4, \ (4T_1^*)^3 \end{array}$	101 <sub>182</sub>	96	$[16, 3, 2, 1^{13}]$
$[4^3, 1^4]$	$(1T_1)^4$ , $(4T_1^*)^3$	167 <sub>453</sub>	256	$[16, 4^2, 1^{13}]$
$[4^3, 1^4]$	$(1T_1)^4$ , $(4T_1^*)^3$	167 506	256	$[16, 4^2, 1^{13}]$
$[4^3, 1^4]$	$(1T_1)^4$ , $(4T_1^*)^3$	$16T_{507}$	256	$[16, 4^2, 1^{13}]$
$[4^3, 1^4]$	$(1T_1)^4$ , $(4T_1^*)^3$	$167^{+*}_{521}$	256	$[16, 4^2, 1^{13}]$
$[4^3, 1^4]$	$(1T_1)^4$ , $(4T_1^*)^3$	$16T_{551}^{*}$	256	$[16, 4^2, 1^{13}]$
$[4^3, 1^4]$	$(1T_1)^4$ , $(4T_1^*)^3$	$16T_{555}^*$	256	$[16, 4^2, 1^{13}]$
$[4^3, 1^4]$	$(1T_1)^4, (4T_1^*)^3$	$16T_{556}^*$	256	$[16, 4^2, 1^{13}]$
$[4^3, 1^4]$	$(1T_1)^4$ , $(4T_1^*)^3$ $(1T_1)^4$ , $(4T_1^*)^3$	$16T_{563}^{+*}$	256	$[16, 4^2, 1^{13}]$
$[4^3, 1^4]$	$(1T_1)^4, (4T_1^*)^3$	$16T_{564}^{+*}$	256	$[16, 4^2, 1^{13}]$
$[4^3, 1^4]$	$(1T_1)^4, (4T_1^*)^3$	$16T_{571}^{+*}$	256	$ \begin{array}{c} [16, 4^2, 1^{13}] \\ [16, 4^2, 1^{13}] \\ [16, 4^2, 1^{13}] \\ [16, 4^2, 1^{13}] \end{array} $
$[4^3, 1^4]$	$(1T_1)^4$ , $(4T_1^*)^3$	$16T_{578}^*$	256	$[16, 4^2, 1^{13}]$
$[4^3, 1^4]$	$(1T_1)^4$ , $(4T_1^*)^3$ $(1T_1)^4$ , $(4T_1^*)^3$	$16T_{805}^{+*}$	512	$[16, 4^2, 2, 1^{12}]$
$[4^3, 1^4]$	$(1T_1)^4$ , $(4T_1^*)^3$ $(1T_1)^4$ , $(4T_1^*)^3$	$16T_{888}^*$	512	$[16, 4^2, 2, 1^{12}]$
$[4^3, 1^4]$	$(1T_1)^4, (4T_1^*)^3$	$16T_{894}^*$	512	$[16, 4^2, 2, 1^{12}]$
$[4^3, 1^4]$	$(1T_1)^4$ , $(4T_1^*)^3$	$16T_{898}^{+*}$	512	$[16, 4^2, 2, 1^{12}]$
$[4^3, 1^4]$	$(1T_1)^4$ , $(4T_1^*)^3$	$16T^*_{1102}$	1024	$[16, 4^3, 1^{12}]$
$[4^3, 1^4]$	$(1T_1)^4$ , $(4T_1^*)^3$	$\begin{array}{c} 16T_{62}^{+*} \\ 16T_{65}^{+*} \\ 16T_{66}^{+*} \\ 16T_{181}^{+*} \\ 16T_{181}^{+*} \\ 16T_{182}^{+*} \\ 16T_{506}^{+*} \\ 16T_{507}^{+*} \\ 16T_{507}^{+*} \\ 16T_{551}^{**} \\ 16T_{551}^{**} \\ 16T_{556}^{**} \\ 16T_{556}^{**} \\ 16T_{563}^{+*} \\ 16T_{578}^{+*} \\ 16T_{895}^{+*} \\ 16T_{898}^{**} \\ 16T_{894}^{+*} \\ 16T_{1192}^{+*} \\ 16T_{1202}^{**} \end{array}$	1024	$[16, 4^3, 1^{12}]$
$[4^3, 1^4]$	$(1T_1)^4, 4T_1^*, (4T_3^*)^2$	$16T_{672}^{*}$	256	$[16, 4, 2^2, 1^{12}]$
$[4^3, 1^4]$	$(1T_1)^4, 4T_1^*, (4T_3^*)^2$	$16T_{673}^{*}$ $16T_{675}^{*}$	256	$[16, 4, 2^2, 1^{12}]$
$[4^3, 1^4]$	$(1T_1)^4, (4T_2^{+*})^3$	$16T_{co}^{+*}$	64	$[16, 4, 1^{14}]$
$[4^3, 1^4]$	$(1T_1)^4$ , $(4T_2^{+*})^3$ $(1T_1)^4$ , $(4T_2^{+*})^3$	$16T_{es}^{+*}$	64	$[16, 4, 1^{14}]$
$[4^3, 1^4]$	$(1T_1)^4, (4T_2^{+*})^3$	16T <sub>98</sub>	64	$[16, 4, 1^{14}]$
$[4^3, 1^4]$	$(1T_1)^4, (4T_2^{+*})^3$	$16T_{159}^{+*}$	128	$[16, 4, 2, 1^{13}]$
$[4^3, 1^4]$	$(1T_1)^4, (4T_2^{+*})^3$	16T 206	128	$[16, 4, 2, 1]$ $[16, 4, 2, 1^{13}]$
$[4^3, 1^4]$	$(1T_1)^4, (4T_2^{+*})^3$	16T <sub>228</sub>	128	$[16, 4, 2, 1]$ $[16, 4, 2, 1^{13}]$
[43, 14]	$(1T_1)^4$ , $(4T_2^{+*})^3$ $(1T_1)^4$ , $(4T_2^{+*})^3$	101 <sub>259</sub>	128	$     \begin{bmatrix}       16, 4, 2, 1 \\       \hline       16, 4, 2, 1^{13}     \end{bmatrix}   $
$[4^3, 1^4]$	(111), $(412)$	101 <sub>323</sub>		[10, 4, 2, 1]
$[4^3, 1^4]$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} 16T_{83}^{+*} \\ 16T_{98}^{+*} \\ 16T_{159}^{+*} \\ 16T_{206}^{-+*} \\ 16T_{228}^{-+*} \\ 16T_{323}^{-+*} \\ 16T_{448}^{+*} \\ 16T_{465}^{+*} \end{array}$	256 256	$ \begin{array}{c} [16, 4^2, 1^{13}] \\ [16, 4^2, 1^{13}] \end{array} $
$[4^3, 1^4]$	$(11_1)^{-}, (41_2)^{-}$	101465		[10, 4 <sup>-</sup> , 1 <sup>-3</sup> ]
$[4^3, 1^4]$	$(1T_1)^4$ , $(4T_2^{+*})^3$	$16T_{470}^{+*}$	256	$[16, 4^2, 1^{13}]$
$[4^3, 1^4]$	$(1T_1)^4$ , $(4T_2^{+*})^3$	$16T_{473}^{+*}$	256	$[16, 4^2, 1^{13}]$
$[4^3, 1^4]$	$(1T_1)^4$ , $(4T_2^{+*})^3$	$16T_{485}^{+*}$	256	$[16, 4^2, 1^{13}]$
$[4^3, 1^4]$	$(1T_1)^4$ , $(4T_2^{+*})^3$	$16T_{502}^{+*}$	256	$[16, 4^2, 1^{13}]$
$[4^3, 1^4]$	$(1T_1)^4$ , $(4T_2^{+*})^3$	$16T_{531}^{+*}$	256	$[16, 4^2, 1^{13}]$
$[4^3, 1^4]$	$(1T_1)^4$ , $(4T_2^{+*})^3$	$16T_{533}^{+*}$	256	$[16, 4^2, 1^{13}]$
$[4^3, 1^4]$	$(1T_1)^4, (4T_2^{+*})^3$	$16T_{581}^{+*}$	256	$[16, 4^2, 1^{13}]$
$[4^3, 1^4]$	$(1T_1)^4$ , $(4T_2^{+*})^3$	$16T_{581}^{+*}$ $16T_{807}^{+*}$	512	$[16, 4^2, 2, 1^{12}]$
$[4^3, 1^4]$	$(1T_1)^4, (4T_2^{+*})^3$	$16T_{903}^{+*}$	512	$[16, 4^2, 2, 1^{12}]$
$[4^3, 1^4]$	$(1T_1)^4, (4T_2^{+*})^3$	$16T_{911}^{+*}$	512	$[16, 4^2, 2, 1^{12}]$
G: Possi	ble Galois Groups, $D(G)$ : Degrees o		G): Galois Group	s of factors, $\mathcal{L}(G)$ : Initial Degrees

Splitting table of degree 16

D(C)	S(C)		$\mathcal{C}(C)$
D(G)	S(G)	$G \qquad  G $	$\mathcal{L}(G)$
$[4^3, 1^4]$	$(1T_1)^4, (4T_2^{+*})^3$	$16T_{925}^{+*}$ 512	$[16, 4^2, 2, 1^{12}]$
$[4^3, 1^4]$	$(1T_1)^4$ , $(4T_2^{+*})^3$	16T <sub>1152</sub> 1024	$[16, 4^3, 1^{12}]$
$[4^3, 1^4]$	$(1T_1)^4$ , $(4T_2^{+*})^3$	$16T_{1224}^{+*}$ $1024$	$[16, 4^3, 1^{12}]$
$[4^3, 1^4]$	$(1T_1)^4$ , $4T_2^{+*}$ , $(4T_3^*)^2$	$16T_{330}^{+*}$ 128	$[16, 4, 2, 1^{13}]$
$[4^3, 1^4]$	$(1T_1)^4$ , $4T_2^{+*}$ , $(4T_3^*)^2$	$16T_{339}^{+*}$ 128	$[16, 4, 2, 1^{13}]$
$[4^3, 1^4]$	$(1T_1)^4$ , $4T_2^{+*}$ , $(4T_3^*)^2$	$16T_{405}^{+*}$ 128	$[16, 4, 2, 1^{13}]$
$[4^3, 1^4]$	$\begin{array}{c} (1T_1)^4, \ 4T_2^{++}, \ (4T_3^*)^2 \\ \end{array}$	$16T_{409}^{+*}$ 128	$[16, 4, 2, 1^{13}]$
$[4^3, 1^4]$	$(1T_1)^4$ , $4T_2^{+*}$ , $(4T_3^*)^2$	$16T_{701}^{+*}$ 256	$[16, 4, 2^2, 1^{12}]$
$[4^3, 1^4]$	$(1T_1)^4$ , $4T_2^{+*}$ , $(4T_3^*)^2$	$16T_{707}^{+*}$ 256	$[16, 4, 2^2, 1^{12}]$
$[8, 4, 1^4]$	$(1T_1)^4$ , $4T_2^{+*}$ , $(4T_3^*)^2$ $(1T_1)^4$ , $4T_1^*$ , $8T_1^*$	$16T_{397}^{+*}$ 128	$[16, 4, 2, 1^{13}]$
$[8, 4, 1^4]$	$\begin{array}{c} (1T_1)^4, \ 4T_1^*, \ 8T_1^* \\ (1T_1)^4, \ 4T_1^*, \ 8T_1^* \\ (1T_1)^4, \ 4T_1^*, \ 8T_7^* \\ \end{array}$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c} [16, 4, 2, 1^{13}] \\ [16, 8, 2, 1^{13}] \end{array} $
$[8, 4, 1^4]$	$(1T_1)^4, 4T_1^*, 8T_7^*$	$16T_{504}^{+*}$ 256	$[16, 8, 2, 1^{13}]$
$[8, 4, 1^4]$	$(1T_1)^4$ , $4T_1^*$ , $8T_7^*$	$16T_{576}^{+*}$ 256	$[16, 8, 2, 1^{13}]$
$[8, 4, 1^4]$	$(1T_1)^4$ , $4T_1^*$ , $8T_7^*$	$16T_{601}^{+*}$ 256	$[16, 8, 2, 1^{13}]$
$[8, 4, 1^4]$	$(1T_1)^4$ , $4T_1^*$ , $8T_7^*$	$16T_{627}^{+*}$ 256	$[16, 8, 2, 1^{13}]$
$[8, 4, 1^4]$	$(1T_1)^4$ , $4T_1^*$ , $8T_7^*$	$16T_{845}^{+*}$ 512	$[16, 8, 2^2, 1^{12}]$
$[8, 4, 1^4]$	$(1T_1)^4$ , $4T_1^*$ , $8T_{11}^{+*}$	$16T_{928}^*$ 512	$ \begin{bmatrix} 16, 4^2, 2, 1^{12} \end{bmatrix} $
$[8, 4, 1^4]$	$(1T_1)^4$ $4T_1^*$ $8T_{17}^*$	$16T_{873}^{+*}$ 512	$[16, 8, 4, 1^{13}]$
$[8, 4, 1^4]$	$(1T_1)^4$ , $4T_1^*$ , $8T_{17}^*$ $(1T_1)^4$ , $4T_1^*$ , $8T_{17}^*$	$16T_{890}^{+*}$ 512	$[16, 8, 4, 1^{13}]$
$[8, 4, 1^4]$	$(1T_1)^4$ , $4T_1^*$ , $8T_{17}^*$	$ \begin{array}{ccc} 16T_{890}^{+*} & 512 \\ 16T_{929}^{*} & 512 \end{array} $	$[16, 8, 4, 1^{13}]$
$[8, 4, 1^4]$	$(1T_1)^4$ $AT^*$ $8T^*$	$16T_{929}^*$ $512$ $16T_{941}^*$ $512$	[16, 8, 4, 1] $[16, 8, 4, 1]$
$[8, 4, 1^4]$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$16T_{951}^{+*}$ 512	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[8, 4, 1^4]$	(111), $411$ , $0117(1T)^4 4T^* 9T^*$	$16T_{951}^{+*}$ 512	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
[8, 4, 1]	$(1T_1)^4$ , $4T_1^*$ , $8T_{17}^*$ $(1T_1)^4$ , $4T_1^*$ , $8T_{17}^*$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$   \begin{bmatrix}     16, 8, 4, 1 \\     \hline     16, 8, 4, 1^{13}   \end{bmatrix} $
	$(111)$ , $41_1$ , $01_{17}$	$16T_{986} - 512$ $16T_{997}^{+*} - 512$	$   \begin{bmatrix}     16, 8, 4, 1 \\     \hline     16, 8, 4, 1^{13}   \end{bmatrix} $
$[8, 4, 1^4]$	$(1T_1)^4$ , $4T_1^*$ , $8T_{17}^*$	$16T_{997}^*$ $512$ $16T_{1106}^*$ $1024$	$   \begin{bmatrix}     16, 8, 4, 1 \\     \hline{16, 8, 4, 2, 1}^{12}   \end{bmatrix} $
$[8, 4, 1^4]$	$(11_1)$ , $41_1$ , $01_{17}$	101 <sub>1106</sub> 1024	[10, 0, 4, 2, 1]
$[8, 4, 1^4]$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$16T_{1120}^*$ $1024$	$[16, 8, 4, 2, 1^{12}]$
$[8, 4, 1^4]$	$(1T_1)^4$ , $4T_1^*$ , $8T_{17}^*$	$16T_{1140}^{+*}$ $1024$	[16, 8, 4, 2, 1 <sup>12</sup> ]
[8, 4, 1 <sup>4</sup> ]	$(1T_1)^4$ , $4T_1^*$ , $8T_{17}^*$ $(1T_1)^4$ , $4T_1^*$ , $8T_{17}^*$	16T* 1024	$[16, 8, 4, 2, 1^{12}]$
$[8, 4, 1^4]$	$(1T_1)^4$ , $4T_1^*$ , $8T_{17}^*$	16T <sub>1432</sub> 2048	$[16, 8, 4^2, 1^{12}]$
$[8, 4, 1^4]$	$(1T_1)^4$ , $4T_2^{+*}$ , $8T_4^{+*}$	16T <sub>389</sub> 128	$[16, 8, 1^{14}]$
$[8, 4, 1^4]$	$(1T_1)^4, 4T_2^{+*}, 8T_9^{+*}$ $(1T_1)^4, 4T_2^{+*}, 8T_9^{+*}$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$[16, 4^2, 1^{13}]$
$[8, 4, 1^4]$	$(1T_1)^4$ , $4T_2^{+*}$ , $8T_9^{+*}$	$16T_{633}^{+*}$ 256	$[16, 4^2, 1^{13}]$
$[8, 4, 1^4]$	$(1T_1)^4$ , $4T_2^{+*}$ , $8T_9^{+*}$	$16T_{689}^{+*}$ 256	$[16, 8, 2, 1^{13}]$
$[8, 4, 1^4]$	$(1T_1)^4$ , $4T_2^{+*}$ , $8T_9^{+*}$	$16T_{700}^{+*}$ 256	$[16, 8, 2, 1^{13}]$
$[8, 4, 1^4]$	$(1T_1)^4$ , $4T_2^{+*}$ , $8T_9^{+*}$	$16T_{878}^{+*}$ 512	$[16, 4^2, 2, 1^{12}]$
$[8, 4, 1^4]$	$(1T_1)^4$ , $4T_2^{+*}$ , $8T_{10}^{+*}$	$16T_{487}^{+*}$ 256	$[16, 4^2, 1^{13}]$
$[8, 4, 1^4]$	$(1T_1)^4$ , $4T_2^{+*}$ , $8T_{10}^{+*}$	$16T_{489}^{+*}$ 256	$[16, 4^2, 1^{13}]$
$[8, 4, 1^4]$	$(1T_1)^4$ , $4T_2^{+*}$ , $8T_{10}^{+*}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$[16, 4^2, 1^{13}]$
$[8, 4, 1^4]$	$(1T_1)^4$ , $4T_2^{+*}$ , $8T_{10}^{+*}$	$16T_{644}^{+*}$ 256	$[16, 4^2, 1^{13}]$
$[8, 4, 1^4]$	$(1T_1)^4$ , $4T_2^{+*}$ , $8T_{10}^{+*}$	$16T_{893}^{+*}$ 512	$[16, 4^2, 2, 1^{12}]$
$[8, 4, 1^4]$	$(1T_1)^4$ , $4T_2^{+*}$ , $8T_{18}^{+*}$	$16T_{902}^{+*}$ 512	[16, 8, 4, 1 <sup>13</sup> ]
$[8, 4, 1^4]$	$(1T_1)^4$ , $4T_2^{+*}$ , $8T_{18}^{+*}$	$16T_{907}^{+*}$ 512	$[16, 8, 4, 1^{13}]$
$[8, 4, 1^4]$	$(1T_1)^4$ , $4T_2^{+*}$ , $8T_{18}^{+*}$	$16T_{912}^{+*}$ 512	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[8, 4, 1^4]$	$(1T_1)^4$ , $4T_2^{+*}$ , $8T_{18}^{+*}$	$16T_{938}^{+*}$ 512	$[16, 8, 4, 1^{13}]$
	ible Galois Groups, $D(G)$ : Degrees of	•	1 4 7 7 7 7
G. 1 088	ione canons croups, D(G). Degrees of	in lactors, D(G). Galois Grou	po or ractors, $\mathcal{L}(\sigma)$ . Initial Degrees

Splitting table of degree 16

D(G)	S(G)	G   G	$\mathcal{L}(G)$
$[8, 4, 1^4]$	$ (1T_1)^4, \ 4T_2^{+*}, \ 8T_{18}^{+*} $ $ (1T_1)^4, \ 4T_2^{+*}, \ 8T_{18}^{+*} $	$ \begin{array}{ccc} 16T_{940}^{+*} & 512 \\ 16T_{964}^{+*} & 512 \end{array} $	$[16, 8, 4, 1^{13}]$
$[8, 4, 1^4]$	$(1T_1)^4$ , $4T_2^{+*}$ , $8T_{18}^{+*}$	$16T_{964}^{+*}$ 512	$[16, 8, 4, 1^{13}]$
$[8, 4, 1^4]$	$(1T_1)^4, 4T_2^{+*}, 8T_{18}^{+*}$	$16T_{969}^{+*}$ 512	$[16, 8, 4, 1^{13}]$
$[8, 4, 1^4]$	$(1T.)^4 AT^{+*} 8T^{+*}$	$16T_{1025}^{+*}$ 512	$[16, 8, 4, 1^{13}]$
$[8, 4, 1^4]$	$(1T_1)^4$ , $4T_2^{+*}$ , $8T_{18}^{+*}$	$16T_{1116}^{+*}$ 1024	$[16, 8, 4, 2, 1^{12}]$
$[8, 4, 1^4]$	$(1T_1)^4$ , $4T_2^{+*}$ , $8T_{18}^{+*}$	$16T_{1174}^{+*}$ 1024	$[16, 8, 4, 2, 1^{12}]$
$[8, 4, 1^4]$	$(1T_1)^4$ , $4T_2^{+*}$ , $8T_{18}^{+*}$	$16T_{1177}^{+*}$ 1024	$[16, 8, 4, 2, 1^{12}]$
$[8, 4, 1^4]$	$(1T_1)^4$ , $4T_2^{+*}$ , $8T_{18}^{+*}$	$16T_{1178}^{+*}$ 1024	$[16, 8, 4, 2, 1^{12}]$
$[8, 4, 1^4]$	$(1T_1)^4$ , $4T_2^{+*}$ , $8T_{18}^{+*}$	$16T_{1340}^{+*}$ 2048	$[16, 8, 4^2, 1^{12}]$
$[6^2, 1^4]$	$\begin{array}{c} (1T_1)^4, 4T_2^-, 8T_{18} \\ (1T_1)^4, 4T_2^{+*}, 8T_{18}^{+*} \\ (1T_1)^4, (6T_2^*)^2 \\ (1T_1)^4, (6T_2^*)^2 \end{array}$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$[16, 6, 1^{14}]$
$[6^2, 1^4]$	(111), $(012)$	$16T_{189}^{+*}$ 96	$[16, 6, 1^{14}]$
$[6^2, 1^4]$	$(1T_1)^4$ , $(6T_4^{+*})^2$	$16T_{423}^{+*}$ 192	$[16, 6, 2, 1^{13}]$
$[6^2, 1^4]$	$(1T_1)^4$ , $(6T_4^{+*})^2$	$16T_{424}^{+*}$ 192	$[16, 6, 2, 1^{13}]$
$[6^2, 1^4]$	$(1T_1)^4$ , $(6T_4^{+*})^2$	$ \begin{array}{cccc} 16T_{426}^{+*} & 192 \\ 16T_{427}^{+*} & 192 \end{array} $	$[16, 6, 2, 1^{13}]$
$[6^2, 1^4]$	$(1T_1)^4$ , $(6T_4^{+*})^2$	$16T_{427}^{+*}$ 192	$   \begin{bmatrix}     16, 6, 2, 1^{13} \\     \hline     1  \end{bmatrix} $
$[6^2, 1^4]$	$(1T_1)^4$ , $(6T_4^{+*})^2$	$16T_{438}^{+*}$ 192	$[16, 6, 2, 1^{13}]$
$[6^2, 1^4]$	$(1T_1)^4$ , $(6T_4^{+*})^2$	$16T_{439}^{+*}$ 192	$[16, 6, 2, 1^{13}]$
$[6^2, 1^4]$	$\begin{array}{c} (1T_1), (0T_4) \\ (1T_1)^4, (6T_4^{+*})^2 \\ (1T_1)^4, (6T_6^{+*})^2 \\ (1T_1)^4, (6T_6^{*})^2 \\ (1T_1)^4, (6T_6^{*})^2 \\ \end{array}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$   \begin{bmatrix}     16, 6, 2, 1 \\     \hline     16, 6, 2, 1^{13}   \end{bmatrix}   $
$[6^2, 1^4]$	$(1T_1)^4$ , $(6T_4^{+*})^2$	$16T_{442}^{+*}$ 192	$[16, 6, 2, 1^{13}]$
$[6^2, 1^4]$	$(1T_1)^4$ , $(6T_4^{+*})^2$	$16T_{445}^{+*}$ 192	$[16, 6, 2, 1^{13}]$
$[6^2, 1^4]$	$(1T_1)^4$ , $(6T_4^{+*})^2$	$16T_{446}^{+*}$ 192	$[16, 6, 2, 1^{13}]$
$[6^2, 1^4]$	$(1T_1)^4$ , $(6T_6^*)^2$	16T <sub>717</sub> <sup>+*</sup> 384	$[16, 6, 2^2, 1^{12}]$
$[6^2, 1^4]$	$(1T_1)^4, (6T_6^*)^2$	16T <sub>722</sub> 384	$[16, 6, 2^2, 1^{12}]$
$[6^2, 1^4]$	(111), $(016)$	$16T_{729}^{+*}$ 384	$[16, 6, 2^2, 1^{12}]$
$[6^2, 1^4]$	$(1T_1)^4$ , $(6T_6^*)^2$	16T <sub>732</sub> 384	$[16, 6, 2^2, 1^{12}]$
$[6^2, 1^4]$	$(1T_1)^4$ , $(6T_6^*)^2$	16T <sub>737</sub> 384	$[16, 6, 2^2, 1^{12}]$
$[6^2, 1^4]$	$(1T_1)^4$ , $(6T_6^*)^2$	16T <sub>752</sub> 384	$[16, 6, 2^2, 1^{12}]$
$[6^2, 1^4]$	$(1T_1)^4$ , $(6T_7^{+*})^2$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$[16, 6, 4, 1^{13}]$
$[6^2, 1^4]$	$(1T_1)^4$ , $(6T_7^{+*})^2$	16T <sub>747</sub> <sup>+*</sup> 384	$[16, 6, 4, 1^{13}]$
$ \begin{array}{c c} \hline [6^2, 1^4] \\ \hline [6^2, 1^4] \end{array} $	$(1T_1)^4$ , $(6T_7^{+*})^2$	$ \begin{array}{c ccccc} 16T_{749}^{+*} & 384 \\ \hline 16T_{763}^{+*} & 384 \end{array} $	$ \begin{array}{c} [16, 6, 4, 1^{13}] \\ [16, 6, 4, 1^{13}] \end{array} $
$[6^2, 1^4]$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$16T_{763}^{+*}$ 384	$[16, 6, 4, 1^4]$ $[16, 6, 4, 1^{13}]$
$[6^2, 1^4]$	$ \frac{(1T_1)^4, (6T_8^*)^2}{(1T_1)^4, (6T_8^*)^2} $	$16T_{739}^{+*}$ $384$	$   \begin{bmatrix}     16, 6, 4, 1 \\     16, 6, 4, 1^{13}   \end{bmatrix} $
$[6^2, 1^4]$	$ (1T_1)^4, (6T_8^*)^2  (1T_1)^4, (6T_8^*)^2 $	$16T_{740}^{+*}$ 384	[16, 6, 4, 1]
$[6^2, 1^4]$	$(1T_1)^4, (6T_8)^2$	$16T_{741}^{+*}$ $384$	$   \begin{bmatrix}     16, 6, 4, 1 \\     \hline     16, 6, 4, 1^{13}   \end{bmatrix} $
$[6^2, 1^4]$	$(1T_1)^4, (6T_{11}^*)^2$	$16T_{743}^{+43}$ $364$ $16T_{1045}^{+*}$ $768$	$[16, 6, 4, 1]$ $[16, 6, 4, 2, 1^{12}]$
$[6^2, 1^4]$	$(1T_1)^4$ , $(6T_{11})^2$	$16T_{1045}^{+1045}$ $768$	$[16, 6, 4, 2, 1]$ $[16, 6, 4, 2, 1^{12}]$
$[12, 1^4]$	$(1T_1)^4$ , $(2T_{11})^4$	$16T_{437}^{+*}$ 192	$[16, 12, 1^{14}]$
$[12, 1^4]$	$(1T_1)^4$ , $12T_9^{+*}$	$16T_{770}^{+*}$ 384	$[16, 12, 1]$ $[16, 12, 2, 1^{13}]$
$[12, 1^4]$	$(1T_1)^4$ , $12T_{21}^{+*}$	$16T_{1066}^{+*}$ 768	$[16, 12, 2, 1]$ $[16, 12, 2^2, 1^{12}]$
$[12, 1^4]$	$(1T_1)^4$ , $12T_{21}^*$ $(1T_1)^4$ , $12T_{30}^*$	$16T_{1064}^{*}$ $768$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[12, 1^4]$	$(1T_1)^4$ , $12T_{31}^{+*}$	$16T_{1072}^{+*}$ 768	$[16, 12, 4, 1^{13}]$
$[12, 1^4]$	$(1T_1)^4$ , $12T_{32}^{+*}$	$16T_{1071}^{+*}$ 768	$[16, 12, 4, 1^{13}]$
$[12, 1^4]$	$(1T_1)^4$ , $12T_{55}^{+*}$	$16T_{1308}^{+*}$ $1536$	$[16, 12, 4, 2, 1^{12}]$
$[12, 1^4]$	$(1T_1)^4$ , $12T_{56}^{+*}$	$16T_{1305}^{+*}$ $1536$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
			coups of factors, $\mathcal{L}(G)$ : Initial Degrees
	• / ( / 0	/	· · · · · ·

Splitting table of degree 16

D(G)	S(G)	G $G$	$\mathcal{L}(G)$
$[12, 1^4]$	$(1T_1)^4, 12T_{62}^{+*}$ $(1T_1)^4, 12T_{63}^{+*}$ $(1T_1)^4, 12T_{67}^{+*}$ $(1T_1)^4, 12T_{68}^{+*}$ $(1T_1)^4, 12T_{68}^{+*}$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$[16, 12, 8, 1^{13}]$
$[12, 1^4]$	$(1T_1)^4$ , $12T_{63}^{+*}$	$16T_{1320}^{+*}$ 1536	$[16, 12, 8, 1^{13}]$
$[12, 1^4]$	$(1T_1)^4$ , $12T_{67}^{+*}$	$16T_{1322}^{+*}$ 1536	$[16, 12, 8, 1^{13}]$
$[12, 1^4]$	$(1T_1)^4$ , $12T_{68}^{+*}$	$16T_{1324}^{+*}$ 1536	$[16, 12, 8, 1^{13}]$
$[12, 1^4]$	$(1T_1)^4$ , $12T_{90}^{+*}$	$16T_{1515}^{+*}$ 3072	$[16, 12, 4^2, 1^{12}]$
$[12, 1^4]$	$(1T_1)^4$ , $12T_{94}^*$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$[16, 12, 4^2, 1^{12}]$
$[12, 1^4]$	$(1T_1)^4$ , $12T_{95}^{+*}$	$16T_{1520}^{+*}$ 3072	$[16, 12, 8, 2, 1^{12}]$
$[12, 1^4]$	$(1T_1)^4$ , $12T_{98}^*$	$16T^*_{1536}$ 3072	$[16, 12, 8, 2, 1^{12}]$
$[12, 1^4]$	$(1T_1)^4$ , $12T_{101}^{+*}$	$16T_{1538}^{+*}$ 3072	$[16, 12, 8, 2, 1^{12}]$
$[12, 1^4]$	$(1T_1)^4$ , $12T_{102}^{+*}$	$16T_{1537}^{+*}$ 3072	$[16, 12, 8, 2, 1^{12}]$
$[12, 1^4]$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} 16T_{1520}^{+*} & 3072 \\ \hline 16T_{1536}^{**} & 3072 \\ \hline 16T_{1538}^{+*} & 3072 \\ \hline 16T_{1538}^{+*} & 3072 \\ \hline 16T_{1537}^{+*} & 3072 \\ \hline 16T_{1664}^{+*} & 6144 \\ \hline 16T_{1660}^{**} & 6144 \\ \hline 16T_{55}^{**} & 32 \\ \hline 16T_{197}^{**} & 128 \\ \hline 16T_{200}^{+*} & 128 \\ \hline \end{array}$	$[16, 12, 8, 4, 1^{12}]$
$[12, 1^4]$	$(1T_1)^4$ , $12T_{150}^*$	$16T_{1660}^*$ 6144	$[16, 12, 8, 4, 1^{12}]$
$[2^7, 1^2]$	$(1T_1)^2, (2T_1)^7$	$16T_{55}^*$ 32	$[16, 2, 1^{14}]$
$[2^7, 1^2]$	$(1T_1)^2, (2T_1)^7$	$16T_{56}^{*}$ 32	$[16, 2, 1^{14}]$
$[2^7, 1^2]$	$(1T_1)^2, (2T_1)^4$	$16T_{197}^{+*}$ 128	$[16, 2^3, 1^{12}]$
$[2^7, 1^2]$	$(1T_1)^2$ , $(2T_1)^7$	$16T_{200}^{+*}$ 128	$[16, 2^3, 1^{12}]$
$[2^7, 1^2]$	$(1T_1)^2, (2T_1)^7$	$16T_{202}^{+*}$ 128	$[16, 2^3, 1^{12}]$
$[2^7, 1^2]$	$(1T_1)^2, (2T_1)^7$	$16T_{203}^{+*}$ 128	$[16, 2^3, 1^{12}]$
$[2^7, 1^2]$	$(1T_1)^2, (2T_1)^7$	$16T_{212}^{+*}$ 128	$[16, 2^3, 1^{12}]$
$[2^7, 1^2]$	$(1T_1)^2, (2T_1)^7$	$16T_{231}^{+*}$ 128	$[16, 2^3, 1^{12}]$
$[2^7, 1^2]$	$(1T_1)^2, (2T_1)^7$	16T+* 128	$[16, 2^3, 1^{12}]$
$[2^7, 1^2]$	$(1T_1)^2, (2T_1)^7$	$16T_{266}^{+*}$ 128	$[16, 2^3, 1^{12}]$
$[2^7, 1^2]$	$(1T_1)^2, (2T_1)^7$	$\begin{array}{c cccc} 10T_{241} & 128 \\ \hline 16T_{266}^{+*} & 128 \\ \hline 16T_{268}^{+*} & 128 \\ \hline 16T_{272}^{+*} & 128 \\ \hline 16T_{278}^{+*} & 128 \\ \hline 16T_{284}^{+*} & 128 \\ \hline 16T_{288}^{+*} & 128 \\ \hline \end{array}$	$[16, 2^3, 1^{12}]$
$[2^7, 1^2]$	$(1T_1)^2, (2T_1)^7$	$16T_{272}^{+*}$ 128	$[16, 2^3, 1^{12}]$
$[2^7, 1^2]$	$(1T_1)^2$ , $(2T_1)^7$	$16T_{278}^{+*}$ 128	$[16, 2^3, 1^{12}]$
$[2^7, 1^2]$	$(1T_1)^2, (2T_1)^7$	$16T_{284}^{+*}$ 128	$[16, 2^3, 1^{12}]$
$[2^7, 1^2]$	$(1T_1)^2, (2T_1)^7$	$16T_{288}^{+*}$ 128	$[16, 2^3, 1^{12}]$
$[2^7, 1^2]$	$(1T_1)^2, (2T_1)^7$	$101_{295}$ 128	$[16, 2^3, 1^{12}]$
$[2^7, 1^2]$	$(1T_1)^2, (2T_1)^7$	$16T_{301}^{+*}$ 128	$[16, 2^3, 1^{12}]$
$[2^7, 1^2]$	$(1T_1)^2, (2T_1)^7$	$16T_{305}^{+*}$ 128	$[16, 2^3, 1^{12}]$
$[2^7, 1^2]$	$(1T_1)^2, (2T_1)^7$	$16T_{310}^{+*}$ 128	$[16, 2^3, 1^{12}]$
$[2^7, 1^2]$	$(1T_1)^2, (2T_1)^7$	$16T_{313}^{+*}$ 128	$[16, 2^3, 1^{12}]$
$[2^7, 1^2]$	$(1T_1)^2, (2T_1)^7$	$16T_{315}^{+*}$ 128	$[16, 2^3, 1^{12}]$
$[2^7, 1^2]$	$(1T_1)^2, (2T_1)^7$	$16T_{317}^{+*}$ 128	$[16, 2^3, 1^{12}]$
$[2^7, 1^2]$	$(1T_1)^2, (2T_1)^7$	$16T_{324}^{+*}$ 128	$[16, 2^3, 1^{12}]$
$[2^7, 1^2]$	$(1T_1)^2, (2T_1)^7$	$16T_{329}^{+*}$ 128	$[16, 2^3, 1^{12}]$
$[2^7, 1^2]$	$(1T_1)^2, (2T_1)^7$	$16T_{354}^{+*}$ 128	$[16, 2^3, 1^{12}]$
$[2^7, 1^2]$	$(1T_1)^2, (2T_1)^7$	$16T_{358}^{+*}$ 128	$[16, 2^3, 1^{12}]$
$[2^7, 1^2]$	$(1T_1)^2, (2T_1)^7$	$16T_{369}^{+*}$ 128	$[16, 2^3, 1^{12}]$
$[2^7, 1^2]$	$(1T_1)^2, (2T_1)^7$	$16T_{372}^{+*}$ 128	$[16, 2^3, 1^{12}]$
$[2^7, 1^2]$	$(1T_1)^2, (2T_1)^7$	$16T_{394}^{+*}$ 128	$[16, 2^3, 1^{12}]$
$[2^7, 1^2]$	$(1T_1)^2, (2T_1)^7$	$16T_{402}^{+*}$ 128	$[16, 2^3, 1^{12}]$
$[2^7, 1^2]$	$(1T_1)^2, (2T_1)^7$	$16T_{460}^{+*}$ 256	$[16, 2^4, 1^{11}]$
$[2^7, 1^2]$	$(1T_1)^2, (2T_1)^7$	$16T_{463}^{+*}$ 256	$[16, 2^4, 1^{11}]$
$[2^7, 1^2]$	$(1T_1)^2, (2T_1)^7$	$ \begin{array}{ccc} 16T_{463}^{+*} & 256 \\ 16T_{464}^{+*} & 256 \end{array} $	$[16, 2^4, 1^{11}]$
-	, , , , ,		roups of factors, $\mathcal{L}(G)$ : Initial Degrees

Splitting table of degree 16

D(G)	S(G)	G $G$	$\mathcal{L}(G)$	
$[2^7, 1^2]$	$(1T_1)^2, (2T_1)^7$	$16T_{466}^{+*}$ 256	$[16, 2^4, 1^{11}]$	
$[2^7, 1^2]$	$(1T_1)^2$ , $(2T_1)^7$	$16T_{469}^{+*}$ 256	$[16, 2^4, 1^{11}]$	
$[2^7, 1^2]$	$(1T_1)^2, (2T_1)^7$ $(1T_1)^2, (2T_1)^7$	$16T_{476}^{+*}$ 256	$[16, 2^4, 1^{11}]$	
$[2^7, 1^2]$	$(1T_1)^7, (2T_1)^7$ $(1T_1)^2, (2T_1)^7$	$16T_{545}^{+*}$ 256	$[16, 2^4, 1^{11}]$	
$[2^7, 1^2]$	$(1T_1)^3$ , $(2T_1)^7$	$16T_{546}^{+*}$ 256	$[16, 2^4, 1^{11}]$	
	$(1T_1)^{\frac{1}{2}}, (2T_1)^{\frac{1}{2}}$	$16T_{546}^{+*}$ 256	$   \begin{bmatrix}     10, 2, 1 \\     16, 2^4, 1^{11}   \end{bmatrix} $	
	(111), $(211)$	$16T_{559}^{+*}$ 256	$[16, 2^4, 1^{11}]$	
	$(1T_1)^2$ , $(2T_1)^7$	101 <sub>565</sub> 250		
$[2^7, 1^2]$	$(1T_1)^2$ , $(2T_1)^7$	16T <sub>585</sub> 256	$[16, 2^4, 1^{11}]$	
$[2^7, 1^2]$	$(1T_1)^2$ , $(2T_1)^7$	16T <sub>586</sub> 256	$[16, 2^4, 1^{11}]$	
$[2^7, 1^2]$	$(1T_1)^2, (2T_1)^7$	$16T_{588}^{+*}$ 256	$[16, 2^4, 1^{11}]$	
$[2^7, 1^2]$	$(1T_1)^2, (2T_1)^7$	$16T_{589}^{+*}$ 256	$[16, 2^4, 1^{11}]$	
$[2^7, 1^2]$	$(1T_1)^2$ , $(2T_1)^7$	$16T_{591}^*$ 256	$[16, 2^4, 1^{11}]$	
$[2^7, 1^2]$	$(1T_1)^2, (2T_1)^7$ $(1T_1)^2, (2T_1)^7$	$16T_{598}^{+*}$ 256	$ \begin{array}{c} [16, 2^4, 1^{11}] \\ [16, 2^4, 1^{11}] \end{array} $	
$[2^7, 1^2]$	$(1T_1)^2, (2T_1)^7$	$16T_{604}^{+*}$ 256	$[16, 2^4, 1^{11}]$	
$[2^7, 1^2]$	$(1T_1)^2, (2T_1)^7$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$   \begin{bmatrix}     16, 2^4, 1^{11} \\     16, 2^4, 1^{11}   \end{bmatrix} $	
$[2^7, 1^2]$	$(1T_1)^2, (2T_1)^7$	$16T_{608}^{+*}$ 256	$[16, 2^4, 1^{11}]$	
$[2^7, 1^2]$	$(1T_1)^2, (2T_1)^7$	$16T_{609}^{+*}$ 256	$[16, 2^4, 1^{11}]$	
$[2^7, 1^2]$	$(1T_1)^2$ , $(2T_1)^7$ $(1T_1)^2$ , $(2T_1)^7$	$16T_{612}^{+*}$ 256	$[16, 2^4, 1^{11}]$	
$[2^7, 1^2]$	$(1T_1)^2, (2T_1)^7$	$16T_{616}^{+*}$ 256	$[16, 2^4, 1^{11}]$	
$[2^7, 1^2]$	$(1T_1)^2, (2T_1)^7$	$16T_{624}^{+*}$ 256	$[16, 2^4, 1^{11}]$	
$[2^7, 1^2]$	$(1T_1)^2$ , $(2T_1)^7$	$16T_{632}^{+*}$ 256	$[16, 2^4, 1^{11}]$	
$[2^7, 1^2]$	$(1T_1)^2$ , $(2T_1)^7$	$16T_{634}^{+*}$ 256	$[16, 2^4, 1^{11}]$	
$[2^7, 1^2]$	$(1T_1)^7, (2T_1)^7$ $(1T_1)^2, (2T_1)^7$	$16T_{634}^{+*}$ 256	$[16, 2^4, 1^{11}]$	
$[2^7, 1^2]$	$(1T_1)^2$ , $(2T_1)^7$	$16T_{643}^*$ 256	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$[2^7, 1^2]$	$(1T_1)^7, (2T_1)^7$		$[16, 2^4, 1^{11}]$	
$[2^7, 1^2]$	$(1T_1)^2, (2T_1)^7$	$\begin{array}{c cccc} 16T_{649}^{+*} & 256 \\ 16T_{651}^{**} & 256 \\ \hline 16T_{656}^{+*} & 256 \\ \hline 16T_{684}^{**} & 256 \\ \hline 16T_{703}^{**} & 256 \\ \hline 16T_{794}^{+*} & 512 \\ \hline 16T_{797}^{+*} & 512 \\ \hline 16T_{801}^{+*} & 512 \\ \hline 16T_{815}^{+*} & 512 \\ \hline \end{array}$		
$[2^7, 1^2]$	$(1T_1)^2$ , $(2T_1)^7$	101 <sub>651</sub> 250	$[16, 2^4, 1^{11}]$	
$[2^7, 1^2]$	$(1T_1)^2$ , $(2T_1)^7$	16T <sub>656</sub> 256	$[16, 2^4, 1^{11}]$	
$[2^7, 1^2]$	$(1T_1)^2$ , $(2T_1)^7$	16T* 256	$[16, 2^4, 1^{11}]$	
$[2^7, 1^2]$	$(1T_1)^2$ , $(2T_1)^7$	16T** 256	$[16, 2^4, 1^{11}]$	
$[2^7, 1^2]$	$(1T_1)^2$ , $(2T_1)^7$	$16T_{794}^{+*}$ 512	$[16, 2^5, 1^{10}]$	
$[2^7, 1^2]$	$(1T_1)^2$ , $(2T_1)^7$	$16T_{797}^{+*}$ 512	$[16, 2^5, 1^{10}]$	
$[2^7, 1^2]$	$(1T_1)^2$ , $(2T_1)^7$	$16T_{801}^{+*}$ 512	$[16, 2^5, 1^{10}]$	
$[2^7, 1^2]$	$(1T_1)^2$ , $(2T_1)^7$	$16T_{815}^{+*}$ 512	$[16, 2^5, 1^{10}]$	
$[2^7, 1^2]$	$(1T_1)^2, (2T_1)^7$	$16T_{817}^{+*}$ 512	$[16, 2^5, 1^{10}]$	
$[2^7, 1^2]$	$(1T_1)^2, (2T_1)^7$	$16T_{820}^{+*}$ 512	$[16, 2^5, 1^{10}]$	
$[2^7, 1^2]$	$(1T_1)^2, (2T_1)^7$	$16T_{829}^*$ 512	$[16, 2^5, 1^{10}]$	
$[2^7, 1^2]$	$(1T_1)^2, (2T_1)^7$	$16T_{834}^*$ 512	$[16, 2^5, 1^{10}]$	
$[2^7, 1^2]$	$(1T_1)^2, (2T_1)^7$	$16T_{835}^{+*}$ 512	$[16, 2^5, 1^{10}]$	
$[2^7, 1^2]$	$(1T_1)^2, (2T_1)^7$	$16T_{841}^*$ 512	$[16, 2^5, 1^{10}]$	
$[2^7, 1^2]$	$(1T_1)^2, (2T_1)^7$	$16T_{854}^{+*}$ 512	$[16, 2^5, 1^{10}]$	
$[2^7, 1^2]$	$(1T_1)^2, (2T_1)^7$	$16T_{860}^{+*}$ 512	$[16, 2^5, 1^{10}]$	
$[2^7, 1^2]$	$(1T_1)^2, (2T_1)^7$	$ \begin{array}{ccc} 16T_{860}^{+*} & 512 \\ 16T_{958}^{+*} & 512 \end{array} $	$[16, 2^5, 1^{10}]$	
$[2^7, 1^2]$	$(1T_1)^2$ , $(2T_1)^7$	$16T_{968}^{+*}$ 512	$[16, 2^5, 1^{10}]$	
$[2^7, 1^2]$	$(1T_1)^2$ , $(2T_1)^7$	$16T_{984}^{+*}$ 512	$[16, 2^5, 1^{10}]$	
$[2^7, 1^2]$	$(1T_1)^2, (2T_1)^7$	$16T_{984}^{+*}$ 512	$[16, 2^5, 1^{10}]$	
$G$ : Possible Galois Groups, $D(G)$ : Degrees of factors, $S(G)$ : Galois Groups of factors, $\mathcal{L}(G)$ : Initial Degrees				

Splitting table of degree 16

D(G)	S(G)	G   G	$\mathcal{L}(G)$
$[2^7, 1^2]$	$(1T_1)^2, (2T_1)^7$		$[16, 2^6, 1^9]$
$[2^7, 1^2]$			$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$\frac{[2, 1]}{[2^7, 1^2]}$	$(1T_1)^2, (2T_1)^7$	$16T_{1102}^{+*}$ $1024$ $16T_{1130}^{*}$ $1024$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
	$(1T_1)^2, (2T_1)^7$	$16T_{1130}^{*}$ $1024$ $16T_{1146}^{*}$ $1024$	
$[2^7, 1^2]$	$(1T_1)^2$ , $(2T_1)^7$	101 <sub>1146</sub> 1024	
$[2^7, 1^2]$	$(1T_1)^2$ , $(2T_1)^7$	$16T_{1171}^{+*}$ $1024$	$[16, 2^6, 1^9]$
$[2^7, 1^2]$	$(1T_1)^2, (2T_1)^7$	16T <sub>1187</sub> 1024	$[16, 2^6, 1^9]$
$[2^7, 1^2]$	$(1T_1)^2, (2T_1)^7$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$[16, 2^6, 1^9]$
$[2^7, 1^2]$	$(1T_1)^2$ , $(2T_1)^7$	$16T_{1197}^{+*}$ 1024	$[16, 2^6, 1^9]$
$[2^7, 1^2]$	$(1T_1)^2, (2T_1)^7$	$  10I_{1210}   1024$	$[16, 2^6, 1^9]$
$[2^7, 1^2]$	$(1T_1)^2, (2T_1)^7$	$16T_{1221}^*$ 1024	$[16, 2^6, 1^9]$
$[2^7, 1^2]$	$(1T_1)^2$ , $(2T_1)^7$	$16T_{1223}^*$ 1024	$[16, 2^6, 1^9]$
$[2^7, 1^2]$	$(1T_1)^2$ , $(2T_1)^7$	$16T_{1229}^*$ 1024	$[16, 2^6, 1^9]$
$[2^7, 1^2]$	$(1T_1)^2$ , $(2T_1)^7$	$16T^*_{1351}$ 2048	$[16, 2^7, 1^8]$
$[2^7, 1^2]$	$(1T_1)^2$ , $(2T_1)^7$	$16T^*_{1378}$ 2048	$[16, 2^7, 1^8]$
$[2^7, 1^2]$	$(1T_1)^2$ , $(2T_1)^7$	$16T_{1379}^*$ 2048	$[16, 2^7, 1^8]$
$[2^7, 1^2]$	$(1T_1)^2, (2T_1)^7$	$16T^*_{1461}$ 2048	$[16, 2^7, 1^8]$
$[2^7, 1^2]$	$(1T_1)^2$ , $(2T_1)^7$	$\pm 167^*$	$[16, 2^7, 1^8]$
$[4, 2^5, 1^2]$	$(1T_1)^2$ , $(2T_1)^5$ , $4T_2^{+*}$	$16T_{80}^{+*}$ 64	$[16, 2^2, 1^{13}]$
$[4, 2^5, 1^2]$	$(1T_1)^2$ , $(2T_1)^5$ , $4T_2^{+*}$	$16T_{116}^{+*}$ 64	$[16, 2^2, 1^{13}]$
$[4, 2^5, 1^2]$	$\begin{array}{c} (17), (27), 47 \\ (17)^2, (27)^5, 47^{+*} \\ (17)^2, (27)^5, 47^{+*} \\ (17)^2, (27)^5, 47^{+*} \end{array}$	$16T_{132}^{+*}$ 64	$[16, 2^2, 1^{13}]$
$[4, 2^5, 1^2]$	$(1T_1)^2$ , $(2T_1)^5$ , $4T_2^{+*}$	$16T_{133}^{+*}$ 64	$[16, 2^2, 1^{13}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_1^*)^2$	$16T^*_{136}$ 64	$[16, 2^2, 1^{13}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_1^*)^2$	$16T_{156}^*$ 64	$[16, 2^2, 1^{13}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_1^*)^2$	$16T_{199}^{+*}$ 128	$[16, 2^3, 1^{12}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_1^*)^2$	$16T_{219}^{+*}$ 128	$[16, 2^3, 1^{12}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_1^*)^2$	$16T_{229}^{+*}$ 128	$[16, 2^3, 1^{12}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_1^*)^2$	$16T_{233}^{+*}$ 128	$[16, 2^3, 1^{12}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_1^*)^2$	$16T_{-2}^{+*}$ 128	$[16, 2^3, 1^{12}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_1^*)^2$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$[16, 2^3, 1^{12}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_1^*)^2$	$16T_{316}^{+*}$ 128	$[16, 2^3, 1^{12}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_1^*)^2$	$16T_{318}^{+*}$ 128	$[16, 2^3, 1^{12}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_1^*)^2$	$16T_{320}^{+*}$ 128	$[16, 2^3, 1^{12}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_1^*)^2$	$16T_{326}^{+*}$ 128	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^2 \ 2^3 \ 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_1^*)^2$	$16T_{368}^{+*}$ 128	$ \begin{bmatrix} 16, 2^3, 1^{12} \end{bmatrix} $
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$(1T_1)^3$ , $(2T_1)^3$ , $(4T_1^*)^2$	$16T_{383}^{+*}$ 128	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_1^*)^2$	$16T_{384}^{+*}$ 128	$[16, 2^3, 1^{12}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_1)^2$		$[16, 2^4, 1^{11}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_1)^2$	1 430	$[16, 2^4, 1^{11}]$
$[4^2, 2^3, 1^2]$		1 900	$\begin{bmatrix} 16, 2, 1 \end{bmatrix}$
$[4^2, 2^3, 1^2]$ $[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_1^*)^2$		$   \begin{bmatrix}     10, 2^{4}, 1^{11} \\     \hline     16, 2^{4}, 1^{11}   \end{bmatrix} $
	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_1^*)^2$	16T <sub>594</sub> 256	$   \begin{bmatrix}     10, 2^{2}, 1^{-2} \\     \hline     16, 2^{2}, 1^{13}   \end{bmatrix} $
	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_2^{+*})^2$	$ \begin{array}{ccc} 16T_{134}^* & 64 \\ 16T_{135}^{+*} & 64 \end{array} $	
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_2^{+*})^2$	$16T_{135}^{+*}$ 64	$[16, 2^2, 1^{13}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_2^{+*})^2$	$16T_{144}^*$ 64	$[16, 2^2, 1^{13}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_2^{+*})^2$	16T <sub>145</sub> 64	$[16, 2^2, 1^{13}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_2^{+*})^2$	$16T_{146}^{+*}$ 64	$[16, 2^2, 1^{13}]$
G: Poss	ible Galois Groups, $D(G)$ : Degrees	of factors, $S(G)$ : Galois Gro	ups of factors, $\mathcal{L}(G)$ : Initial Degrees

Splitting table of degree 16

D(G)	S(G)	$G \qquad  G $	$\mathcal{L}(G)$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_2^{+*})^2$	$16T_{147}^{+*}$ 64	$[16, 2^2, 1^{13}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_2^{+*})^2$	$16T_{147}^{+*}$ $128$	$[16, 2^3, 1^{12}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_2^{+*})^2$	$16T_{232}^{+*}$ 128	$[16, 2^3, 1^{12}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^{\frac{1}{2}}, (2T_1)^{\frac{1}{2}}, (4T_2^{+*})^{\frac{1}{2}}$	$16T_{263}^{+*}$ $128$	$[16, 2^3, 1^{12}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_2^{+*})^2$	$16T_{263}^{+*}$ 128	$   \begin{bmatrix}     16, 2^3, 1^{12}   \end{bmatrix}   $
$[4^2, 2^3, 1^2]$	$(1T_1)^{\frac{1}{2}}, (2T_1)^{\frac{1}{2}}, (4T_2)^{\frac{1}{2}}$	$16T_{267}^{+*}$ $128$	$   \begin{bmatrix}     10, 2, 1 \\     16, 2^3, 1^{12}   \end{bmatrix} $
$\frac{[4, 2, 1]}{[4^2, 2^3, 1^2]}$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_2)^2$	$16T_{282}$ $128$ $16T_{285}^{+*}$ $128$	$[16, 2^3, 1^{12}]$
	(111), $(211)$ , $(412)$	$\begin{array}{c cccc} 16T_{263}^{+*} & 128 \\ 16T_{267}^{+*} & 128 \\ \hline 16T_{282}^{+*} & 128 \\ \hline 16T_{285}^{+*} & 128 \\ \hline 16T_{290}^{+*} & 128 \\ \hline 16T_{298}^{+*} & 128 \\ \hline 16T_{307}^{+*} & 128 \\ \hline 16T_{307}^{+*} & 128 \\ \hline \end{array}$	
	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_2^{+*})^2$	101 <sub>290</sub> 120	
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_2^{+*})^2$	$16T_{298}^{+*}$ 128	
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_2^{+*})^2$	$16T_{307}^{+*}$ 128	$[16, 2^3, 1^{12}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_2^{+*})^2$	$101_{312}$ 128	$[16, 2^3, 1^{12}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_2^{+*})^2$	$16T_{331}^{+*}$ 128	$[16, 2^3, 1^{12}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_2^{+*})^2$	$16T_{411}^{+*}$ 128	$[16, 2^3, 1^{12}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_2^{+*})^2$	$16T_{412}^{+*}$ 128	$[16, 2^3, 1^{12}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_2^{+*})^2$	$16T_{475}^{+*}$ 256	$[16, 2^4, 1^{11}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_2^{+*})^2$	$ \begin{array}{ccc} 16T_{475}^{+*} & 256 \\ 16T_{496}^{+*} & 256 \\ 16T_{550}^{+*} & 256 \end{array} $	$[16, 2^4, 1^{11}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_2^{+*})^2$	$16T_{550}^{+*}$ 256	$[16, 2^4, 1^{11}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_2^{+*})^2$	$16T_{561}^*$ 256	$[16, 2^4, 1^{11}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$[16, 2^3, 1^{12}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{216}^{+*}$ 128	$[16, 2^3, 1^{12}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{222}^{+*}$ 128	$[16, 2^3, 1^{12}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{224}^{+*}$ 128	$[16, 2^3, 1^{12}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{226}^{+*}$ 128	$[16, 2^3, 1^{12}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{234}^{+*}$ 128	$[16, 2^3, 1^{12}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$ \begin{array}{cccc} 16T_{236}^{+*} & 128 \\ 16T_{238}^{+*} & 128 \end{array} $	$[16, 2^3, 1^{12}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{238}^{+*}$ 128	$[16, 2^3, 1^{12}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$[16, 2^3, 1^{12}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{244}^{+*}$ 128	$[16, 2^3, 1^{12}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{250}^{+*}$ 128	$[16, 2^3, 1^{12}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{262}^{+*}$ 128	$[16, 2^3, 1^{12}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{269}^{+*}$ 128	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^2, 2^3, 1^2]$	$(1T_1)^3$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{281}^{+*}$ 128	$[16, 2^3, 1^{12}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^3$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{287}^{+*}$ 128	$[16, 2^{3}, 1^{12}]$
$\frac{[4^2, 2^3, 1^2]}{[4^2, 2^3, 1^2]}$	$(1T_1)^3$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{296}^{+*}$ 128	$[16, 2, 1]$ $[16, 4, 2, 1^{13}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3)^2$	$16T_{296}^{+*}$ $128$	$[16, 2^3, 1^{12}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3)^2$	$16T_{309}^{+*}$ 128	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$\frac{[4, 2, 1]}{[4^2, 2^3, 1^2]}$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3)^2$	$16T_{328}$ $128$ $16T_{335}^*$ $128$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^{2}, 2^{3}, 1^{2}]$	$(1T_1)^{2}, (2T_1)^{3}, (4T_3)^{2}$ $(1T_1)^{2}, (2T_1)^{3}, (4T_3^{*})^{2}$		$[16, 2^3, 1^{12}]$
	$(1I_1)$ , $(2I_1)$ , $(4I_3)$		$[16, 2^3, 1]$
L / / ]	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{340}^{+*}$ 128	
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{342}^{+*}$ 128	$[16, 2^3, 1^{12}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T^*_{343}$ 128	$[16, 4, 2, 1^{13}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{346}^*$ 128	$[16, 4, 2, 1^{13}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	16T** 128	$[16, 4, 2, 1^{13}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{359}^{+*}$ 128	$[16, 2^3, 1^{12}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2, (2T_1)^3, (4T_3^*)^2$	$16T_{363}^*$ 128	$[16, 4, 2, 1^{13}]$
G: Poss	ible Galois Groups, $D(G)$ : Degrees of	of factors, $S(G)$ : Galois Grou	ps of factors, $\mathcal{L}(G)$ : Initial Degrees

Splitting table of degree 16

D/(0)			1.01	2(0)
D(G)	S(G)	G	$\mid G \mid$	$\mathcal{L}(G)$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{377}^*$	128	$[16, 4, 2, 1^{13}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{378}^{+*}$	128	$[16, 4, 2, 1^{13}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{413}^{+*}$	128	$[16, 4, 2, 1^{13}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{449}^{+*}$	256	$[16, 4, 2^2, 1^{12}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{450}^{+*}$	256	$[16, 4, 2^2, 1^{12}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	167+*	256	$[16, 4, 2^2, 1^{12}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{449}^{+*}$ $16T_{450}^{+*}$ $16T_{451}^{+*}$ $16T_{452}^{+*}$ $16T_{452}^{+*}$ $16T_{456}^{+*}$ $16T_{458}^{+*}$	256	$[16, 4, 2^2, 1^{12}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	16T <sup>+*</sup>	256	$[16, 4, 2^2, 1^{12}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	16T 456	256	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3)^2$	16T <sub>458</sub>	256	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^2, 2^3, 1^2]$	(111), $(211)$ , $(413)$	16T <sub>459</sub> <sup>+*</sup>	256	$   \begin{bmatrix}     16, 4, 2, 1 \\     \hline{16, 4, 2^2, 1^{12}}   \end{bmatrix} $
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	101461		
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	161462	256	$[16, 4, 2^2, 1^{12}]$
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	167 <sub>467</sub>	256	$[16, 4, 2^2, 1^{12}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{468}^{+*}$	256	$[16, 4, 2^2, 1^{12}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{471}^{+*}$	256	$[16, 4, 2^2, 1^{12}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{490}^{+*}$	256	$[16, 2^4, 1^{11}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{491}^{+*}$	256	$[16, 2^4, 1^{11}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$\begin{array}{c} 16T_{461}^{+*} \\ 16T_{462}^{+*} \\ 16T_{467}^{+*} \\ 16T_{468}^{+*} \\ 16T_{471}^{+*} \\ 16T_{490}^{+*} \\ 16T_{491}^{+*} \\ 16T_{512}^{+*} \end{array}$	256	$[16, 2^4, 1^{11}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{535}^{+*}$	256	$[16, 4, 2^2, 1^{12}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{549}^{+*}$	256	$[16, 4, 2^2, 1^{12}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{574}^{+*}$	256	$[16, 4, 2^2, 1^{12}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{579}^{+*}$	256	$[16, 4, 2^2, 1^{12}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	1675	256	$[16, 4, 2^2, 1^{12}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$ \begin{array}{c} 16T_{584}^{+*} \\ 16T_{592}^{+*} \end{array} $	256	$   \begin{bmatrix}     16, 4, 2^2, 1^{12}   \end{bmatrix}   $
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	16T+*	256	$[16, 2^4, 1^{11}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$\begin{array}{c} 16T_{596}^{+92} \\ 16T_{596}^{+*} \\ 16T_{599}^{+*} \\ 16T_{606}^{+*} \\ 16T_{613}^{+*} \\ 16T_{614}^{+*} \\ \end{array}$	256	$[16, 4, 2^2, 1^{12}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	16T+*	256	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^2, 2^3, 1^2]$	$(1T_1)^3$ , $(2T_1)^3$ , $(4T_3)^2$	16T <sub>606</sub>	256	$[16, 4, 2^2, 1^{12}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^3$ , $(2T_1)^3$ , $(4T_3)^2$	16T <sub>613</sub>	256	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3)^2$	16T <sub>614</sub>	256	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^{2}, 2^{3}, 1^{2}]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	16T <sub>615</sub> <sup>+*</sup>		
	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	16T <sub>618</sub> <sup>+*</sup>	256	
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	16T <sub>621</sub> <sup>+*</sup>	256	$[16, 4, 2^2, 1^{12}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	16T <sub>626</sub> <sup>+*</sup>	256	$[16, 4, 2^2, 1^{12}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{628}^{+*}$	256	$[16, 4, 2^2, 1^{12}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{635}^{+*}$	256	$[16, 4, 2^2, 1^{12}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{638}^{+*}$	256	$[16, 4, 2^2, 1^{12}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{638}^{+*}  16T_{639}^{+*}$	256	$[16, 4, 2^2, 1^{12}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{641}^{+*}$	256	$[16, 4, 2^2, 1^{12}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{642}^{+*}$	256	$[16, 4, 2^2, 1^{12}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{645}^{+*}$	256	$[16, 4, 2^2, 1^{12}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{646}^{+*}$	256	$[16, 4, 2^2, 1^{12}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2, (2T_1)^3, (4T_3^*)^2$	$16T_{647}^{+*}$	256	$[16, 4, 2^2, 1^{12}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{650}^{+*}$	256	$[16, 4, 2^2, 1^{12}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{652}^{+*}$	256	$[16, 4, 2^2, 1^{12}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{653}^{+*}$	256	$   \begin{bmatrix}     16, 4, 2^2, 1^{12}   \end{bmatrix}   $
	ible Galois Groups, $D(G)$ : Degrees of			
G. 1 088.	Calon Groups, D(G). Degrees (	5. 1000015, D(C	.,. Garois Group	5 51 Lactors, S(G). Initial Degrees

Splitting table of degree 16

D(G)	S(G)	G	$\mid G \mid$	$\mathcal{L}(G)$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{654}^{+*}$	256	$[16, 4, 2^2, 1^{12}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{657}^{+*}$	256	$[16, 4, 2^2, 1^{12}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{660}^*$	256	$[16, 4, 2^2, 1^{12}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{663}^*$	256	$[16, 4, 2^2, 1^{12}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T^*_{665}$	256	$[16, 4, 2^2, 1^{12}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T^*_{671}$	256	$[16, 4, 2^2, 1^{12}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{779}^{+*}$	512	$[16, 4, 2^3, 1^{11}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{780}^{+*}$	512	$[16, 4, 2^3, 1^{11}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{781}^{+*}$	512	$[16, 4, 2^3, 1^{11}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	167783	512	$[16, 4, 2^3, 1^{11}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{781}^{+81}$ $16T_{783}^{+*}$ $16T_{787}^{+*}$ $16T_{788}^{+*}$ $16T_{791}^{+*}$ $16T_{796}^{+*}$	512	$[16, 4, 2^3, 1^{11}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	167788	512	$[16, 4, 2^3, 1^{11}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	16T <sub>791</sub>	512	$[16, 4, 2^3, 1^{11}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	101 <sub>796</sub>	512	$[16, 4, 2^3, 1^{11}]$
$ \begin{array}{ c c c c c } \hline [4^2, 2^3, 1^2] \\ \hline [4^2, 2^3, 1^2] \end{array} $	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	16T <sub>799</sub> <sup>+*</sup>	512 512	$   \begin{bmatrix}     16, 4, 2^3, 1^{11} \\     16, 4, 2^3, 1^{11}   \end{bmatrix}   $
$ \begin{array}{ c c c c c } \hline [4^2, 2^3, 1^2] \\ \hline [4^2, 2^3, 1^2] \end{array} $	$ \frac{(1T_1)^2, (2T_1)^3, (4T_3^*)^2}{(1T_1)^2, (2T_1)^3, (4T_3^*)^2} $	$16T_{803}^{+*}$	512	$   \begin{bmatrix}     16, 4, 2^3, 1^{11} \\     16, 4, 2^3, 1^{11}   \end{bmatrix} $
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$ $(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{804}^{+*}$	512	$   \begin{bmatrix}     [16, 4, 2^3, 1^{11}] \\     [16, 4, 2^3, 1^{11}]   \end{bmatrix} $
$ \begin{array}{ c c c c c } \hline [4^2, 2^3, 1^2] \\ \hline [4^2, 2^3, 1^2] \end{array} $	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$ $(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$ \begin{array}{ c c c c } \hline 16T^{+*}_{810} \\ \hline 16T^{*}_{811} \end{array} $	512	$   \begin{bmatrix}     16, 4, 2^3, 1^{11} \\     16, 4, 2^3, 1^{11}   \end{bmatrix} $
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3)^2$	$16T_{811}^{+*}$ $16T_{812}^{+*}$	512	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3)^2$	$16T_{812}^{+*}$	512	$   \begin{bmatrix}     16, 4, 2, 1 \\     \hline     16, 4, 2^3, 1^{11}   \end{bmatrix}   $
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3)^2$	16T <sub>813</sub>	512	$   \begin{bmatrix}     16, 4, 2, 1 \\     \hline     16, 4, 2^3, 1^{11}   \end{bmatrix}   $
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{922}^{+*}$	512	$   \begin{bmatrix}     1, 2, 1 \\     1, 2, 1   \end{bmatrix}   \begin{bmatrix}     1, 2, 1 \\   \end{bmatrix}   \begin{bmatrix}     1, 2, 1 \\$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$\begin{array}{c} 16T_{812} \\ 16T_{813}^{+*} \\ 16T_{821}^{+*} \\ 16T_{822}^{+*} \\ 16T_{825}^{+*} \\ 16T_{826}^{+*} \end{array}$	512	$[16, 4, 2^3, 1^{11}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{226}^{+*}$	512	$ \begin{bmatrix} 16, 4, 2^3, 1^{11} \end{bmatrix} $
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{828}^{*}$	512	$[16, 4, 2^3, 1^{11}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{832}^{+*}$	512	$[16, 4, 2^3, 1^{11}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{833}^{+*}$	512	$[16, 4, 2^3, 1^{11}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{836}^{+*}$	512	$[16, 4, 2^3, 1^{11}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{840}^*$	512	$[16, 4, 2^3, 1^{11}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2, (2T_1)^3, (4T_3^*)^2$	$16T_{846}^{+*}$	512	$[16, 4, 2^3, 1^{11}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2, (2T_1)^3, (4T_3^*)^2$	$16T_{848}^{+*}$	512	$[16, 4, 2^3, 1^{11}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{849}^*$	512	$[16, 4, 2^3, 1^{11}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{850}^{+*}$	512	$[16, 4, 2^3, 1^{11}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{853}^{+*}$	512	$[16, 4, 2^3, 1^{11}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{869}^{+*}$	512	$[16, 4, 2^3, 1^{11}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{881}^{+*}$	512	$[16, 4, 2^3, 1^{11}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	16T <sub>884</sub>	512	$[16, 4, 2^3, 1^{11}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{886}^{+*}$	512	$[16, 4, 2^3, 1^{11}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{896}^{+*}$	512	$[16, 4, 2^3, 1^{11}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{913}^{+*}$	512	$[16, 4, 2^3, 1^{11}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{915}^{+*}$	512	$[16, 4, 2^3, 1^{11}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{916}^{+*}$	512	$[16, 4, 2^3, 1^{11}]$
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{917}^*$	512 512	$ \begin{bmatrix} 16, 4, 2^3, 1^{11} \\ 16, 4, 2^3, 1^{11} \end{bmatrix} $
	$(1T_1)^2, (2T_1)^3, (4T_3^*)^2$	$16T_{920}^{+*}$		$[16, 4, 2^3, 1^{11}]$
$G$ : Possible Galois Groups, $D(G)$ : Degrees of factors, $S(G)$ : Galois Groups of factors, $\mathcal{L}(G)$ : Initial Degrees				

Splitting table of degree 16

D(G)	S(G)	$G \qquad  G $	$\mathcal{L}(G)$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{926}^{+*}$ 512	$[16, 4, 2^3, 1^{11}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{935}^{+*}$ 512	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{944}^{*}$ 512	$[16, 4, 2^3, 1^{11}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{948}^{+*}$ 512	$[16, 4, 2^3, 1^{11}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{952}^{*}$ 512	$[16, 4, 2^3, 1^{11}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{953}^{+*}$ 512	$[16, 4, 2^3, 1^{11}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{963}^{+*}$ 512	$[16, 4, 2^3, 1^{11}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$ \begin{array}{ccc}     & 393 \\     & 16T_{963}^{+*} & 512 \\     & 16T_{966}^{+*} & 512 \\     & 16T_{970}^{*} & 512 \end{array} $	$[16, 4, 2^3, 1^{11}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{970}^{*}$ 512	$[16, 4, 2^3, 1^{11}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{982}^{+*}$ 512	$[16, 4, 2^3, 1^{11}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$ \begin{array}{ccc} 16T_{982}^{+*} & 512 \\ 16T_{988}^{**} & 512 \end{array} $	$[16, 4, 2^3, 1^{11}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{991}^{+*}$ 512	$[16, 4, 2^3, 1^{11}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{996}^{+*}$ 512	$[16, 4, 2^3, 1^{11}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{1000}^*$ 512	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{1008}^{+*}$ 512	$[16, 4, 2^3, 1^{11}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{1010}^{+*}$ 512	$[16, 4, 2^3, 1^{11}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$[16, 4, 2^3, 1^{11}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{1015}^{+*}$ 512	$[16, 4, 2^3, 1^{11}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{1021}^{+*}$ 512	$[16, 4, 2^3, 1^{11}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{1023}^{+*}$ 512	$[16, 4, 2^3, 1^{11}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{1024}^{+*}$ 512	$[16, 4, 2^3, 1^{11}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{1086}^{+*}$ 1024	$[16, 4, 2^4, 1^{10}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{1094}^{+*}$ 1024	$[16, 2^6, 1^9]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{1095}^{+*}$ 1024	$[16, 2^6, 1^9]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{1098}^{+*}$ 1024	$[16, 4, 2^4, 1^{10}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{1122}^{+*}$ 1024	$[16, 4, 2^4, 1^{10}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{1100}^{+*}$ 1024	$[16, 4, 2^4, 1^{10}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$[16, 4, 2^4, 1^{10}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{1132}^*$ 1024	$[16, 2^6, 1^9]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{1136}^{+*}$ 1024	$[16, 4, 2^4, 1^{10}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T^*_{1141}$ 1024	$[16, 4, 2^4, 1^{10}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$[16, 2^6, 1^9]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{1148}^{+*}$ 1024	$[16, 4, 2^4, 1^{10}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{1162}^{+*}$ 1024	$[16, 4, 2^4, 1^{10}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{1167}^*$ 1024	$[16, 2^6, 1^9]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{1175}^{+*}$ 1024	$[16, 4, 2^4, 1^{10}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{1183}^{+*}$ 1024	$[16, 2^6, 1^9]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{1184}^*$ 1024	$[16, 4, 2^4, 1^{10}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{1198}^*$ 1024	$[16, 2^6, 1^9]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{1200}^*$ 1024	$[16, 4, 2^4, 1^{10}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{1204}^{+*}$ 1024	$[16, 2^6, 1^9]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{1220}^{+*}$ 1024	$[16, 4, 2^4, 1^{10}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{1228}^{+*}$ 1024	$[16, 4, 2^4, 1^{10}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{1236}^*$ 1024	$[16, 4, 2^4, 1^{10}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{1238}^{+*}$ 1024	$[16, 4, 2^4, 1^{10}]$
G: Poss	ible Galois Groups, $D(G)$ : Degrees $\alpha$	of factors, $S(G)$ : Galois Grou	ps of factors, $\mathcal{L}(G)$ : Initial Degrees

 $\Longrightarrow$ 

Splitting table of degree 16

D(G)	S(G)	G   G	$\mathcal{L}(G)$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{1241}^{+*}$ $1024$	$[16, 4, 2^4, 1^{10}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{1242}^{+*}$ $1024$	$[16, 2^6, 1^9]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{1245}^{+*}$ $1024$	$[16, 4, 2^4, 1^{10}]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{1246}^{+*}$ $1024$	$[16, 2^6, 1^9]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{1335}^{+*}$ 2048	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{1336}^{+*}$ 2048	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{1370}^*$ 2048	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{1372}^*$ 2048	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T^*_{1381}$ 2048	$[16, 4, 2^5, 1^9]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$[16, 4, 2^5, 1^9]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{1392}^{+*}$ 2048	$[16, 4, 2^5, 1^9]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{1405}^*$ 2048	$[16, 4, 2^5, 1^9]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{1406}^*$ 2048	$[16, 4, 2^5, 1^9]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{1414}^{*}$ 2048	$[16, 4, 2^5, 1^9]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{1420}^{*}$ 2048	$[16, 4, 2^5, 1^9]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{1424}^{*}$ 2048	$[16, 4, 2^5, 1^9]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{1427}^*$ 2048	$[16, 4, 2^5, 1^9]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{1428}^{+*}$ 2048	$[16, 4, 2^5, 1^9]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{1463}^*$ 2048	$[16, 4, 2^5, 1^9]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{1479}^{*}$ 2048	$[16, 4, 2^5, 1^9]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T^*_{1481}$ 2048	$[16, 4, 2^5, 1^9]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T^*_{1577}$ 4096	$[16, 4, 2^6, 1^8]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{1590}^*$ 4096	$[16, 4, 2^6, 1^8]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{1604}^*$ 4096	$[16, 4, 2^6, 1^8]$
$[4^2, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $(4T_3^*)^2$	$16T_{1616}^*$ 4096	$[16, 4, 2^6, 1^8]$
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_1^*$	$16T_{361}^{+*}$ 128	$[16, 4, 2, 1^{13}]$
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_1^*$	$16T_{387}^{+*}$ 128	$[16, 4, 2, 1^{13}]$
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_2^{+*}$	$16T_{218}^{+*}$ 128	$[16, 2^3, 1^{12}]$
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_2^{+*}$	$16T_{221}^{+*}$ 128	$[16, 2^3, 1^{12}]$
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_2^{+*}$	$16T_{276}^{+*}$ 128	$[16, 2^3, 1^{12}]$
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_2^{+*}$	$16T_{366}^{+*}$ 128	$[16, 2^3, 1^{12}]$
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_3^{+*}$	$16T_{214}^{+*}$ 128	$[16, 2^3, 1^{12}]$
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_3^{+*}$	$16T_{277}^{+*}$ 128	$[16, 2^3, 1^{12}]$
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_3^{+*}$	$16T_{349}^{+*}$ 128	$[16, 2^3, 1^{12}]$
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_4^{+*}$	$16T_{352}^{+*}$ 128	$[16, 2^3, 1^{12}]$
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_4^{+*}$	$16T_{367}^{+*}$ 128	$[16, 2^3, 1^{12}]$
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_4^{+*}$	$16T_{379}^*$ 128	$[16, 4, 2, 1^{13}]$
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_4^{+*}$	$16T_{386}^{+*}$ 128	$[16, 2^3, 1^{12}]$
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_4^{+*}$	$16T_{404}^{+*}$ 128	$[16, 2^3, 1^{12}]$
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_5^{+*}$	$16T_{332}^{+*}$ 128	$[16, 2^3, 1^{12}]$
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_5^{+*}$	$16T_{351}^*$ 128	$[16, 4, 2, 1^{13}]$
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_5^{+*}$	$16T_{357}^{+*}$ 128	$[16, 2^3, 1^{12}]$
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_5^{+*}$	$16T_{381}^{+*}$ 128	$[16, 2^3, 1^{12}]$
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_6^*$	$16T_{664}^*$ 256	$[16, 8, 2, 1^{13}]$
G: Poss	ible Galois Groups, $D(G)$ : Degrees	of factors, $S(G)$ : Galois Gro	ups of factors, $\mathcal{L}(G)$ : Initial Degrees

Splitting table of degree 16

D(G)	S(G)	G   G	$\mathcal{L}(G)$
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_6^*$	$16T_{679}^{*}$ 256	$[16, 8, 2, 1^{13}]$
$   \begin{array}{c cccc}                                 $	$(1T_1)^2$ , $(2T_1)^3$ , $8T_6^*$	$16T_{688}^{*}$ 256	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$16T_{688}$ 256 $16T_{696}^{+*}$ 256	$   \begin{bmatrix}     10, 8, 2, 1 \\     \hline     16, 8, 2, 1^{13}   \end{bmatrix} $
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_6^*$	101 <sub>696</sub> 200	[10, 0, 2, 1]
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_6^*$	16T* 512	$[16, 8, 2^2, 1^{12}]$
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_7^*$	16T** 256	$[16, 4, 2^2, 1^{12}]$
$[8, 2^3, 1^2]$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	16T <sub>697</sub> 256	$[16, 4, 2^2, 1^{12}]$
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_7^*$	$16T_{885}^*$ 512	$[16, 4, 2^3, 1^{11}]$
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_8^*$	$16T_{674}^{+*}$ 256	$[16, 8, 2, 1^{13}]$
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_8^*$	$16T_{687}^*$ 256	$[16, 8, 2, 1^{13}]$
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_8^*$	$16T_{694}^*$ 256	$[16, 8, 2, 1^{13}]$
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_8^*$	$16T_{704}^*$ 256	[16, 8, 2, 1 <sup>13</sup> ]
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_8^*$	$16T_{979}^*$ 512	$  16, 8, 2^2, 1^{12}  $
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_9^{+*}$	$16T_{472}^{+*}$ 256	$[16, 4, 2^2, 1^{12}]$
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_9^{+*}$	$16T_{474}^{+*}$ 256	$[16, 4, 2^2, 1^{12}]$
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_9^{+*}$	$16T_{479}^{+*}$ 256	$[16, 4, 2^2, 1^{12}]$
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_9^{+*}$	$16T_{481}^{+*}$ 256	$[16, 4, 2^2, 1^{12}]$
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_2^{+*}$	$16T_{486}^{+*}$ 256	$[16, 4, 2^2, 1^{12}]$
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_9^{+*}$	$16T_{488}^{+*}$ 256	$[16, 4, 2^2, 1^{12}]$
$[8, 2^3, 1^2]$	$\begin{array}{c} (1T_1)^2, (2T_1)^3, 8T_9^{+*} \\ (1T_1)^2, (2T_1)^3, 8T_9^{+*} \\ (1T_1)^2, (2T_1)^3, 8T_9^{+*} \\ (1T_1)^2, (2T_1)^3, 8T_9^{+*} \\ (1T_1)^2, (2T_1)^3, 8T_9^{+*} \end{array}$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$   \begin{bmatrix}     16, 4, 2^2, 1^{12}   \end{bmatrix} $
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_9^{+*}$	$16T_{505}^{+*}$ 256	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_9^{+*}$	$16T_{505}^{+*}$ 256	$   \begin{bmatrix}     16, 4, 2, 1 \\     \hline     16, 4, 2^2, 1^{12}   \end{bmatrix} $
$   \begin{array}{c cccccccccccccccccccccccccccccccccc$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_9^{+*}$	$16T_{522}^{+*}$ 256	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
[0, 2, 1]	(111), $(211)$ , $819$	101 <sub>536</sub> 250	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$ \begin{array}{ c c c c c } \hline [8, 2^3, 1^2] \\ \hline [8, 2^3, 1^2] \end{array} $	$(1T_1)^2$ , $(2T_1)^3$ , $8T_9^{+*}$	16T <sub>537</sub> <sup>+*</sup> 256	
	$(1T_1)^2$ , $(2T_1)^3$ , $8T_9^{+*}$	16T <sub>538</sub> <sup>+*</sup> 256	$[16, 4, 2^2, 1^{12}]$
$[8, 2^3, 1^2]$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	16T <sub>560</sub> <sup>+*</sup> 256	$[16, 4, 2^2, 1^{12}]$
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_9^{+*}$	16T <sub>617</sub> <sup>+*</sup> 256	$[16, 4, 2^2, 1^{12}]$
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_9^{+*}$	$16T_{861}^{+*}$ 512	$[16, 4, 2^3, 1^{11}]$
$[8, 2^3, 1^2]$	$(17_1)^2, (27_1)^3, 87_5^{++}$	$\begin{array}{c cccc} 16T_{560}^{+*} & 256 \\ 16T_{617}^{+*} & 256 \\ \hline 16T_{861}^{+*} & 512 \\ \hline 16T_{879}^{+*} & 512 \\ \hline 16T_{705}^{+*} & 256 \\ \hline 16T_{900}^{+*} & 512 \\ \hline 16T_{493}^{+*} & 256 \\ \hline \end{array}$	$[16, 4, 2^3, 1^{11}]$
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_{10}^{+*}$	$16T_{698}^{+*}$ 256	$[16, 4, 2^2, 1^{12}]$
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_{10}^{+*}$	$16T_{705}^{+*}$ 256	$[16, 4, 2^2, 1^{12}]$
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_{10}^{+*}$	$16T_{900}^{+*}$ 512	$[16, 4, 2^3, 1^{11}]$
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_{11}^{+*}$	$16T_{493}^{+*}$ 256	$[16, 4, 2^2, 1^{12}]$
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_{11}^{+*}$	$16T_{516}^{+*}$ 256	$[16, 4, 2^2, 1^{12}]$
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_{11}^{+*}$	$16T_{517}^{+*}$ 256	$[16, 4, 2^2, 1^{12}]$
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_{11}^{+*}$	$16T_{519}^{+*}$ 256	$[16, 4, 2^2, 1^{12}]$
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_{11}^{+*}$	$16T_{529}^{+*}$ 256	$[16, 4, 2^2, 1^{12}]$
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_{11}^{+*}$	$16T_{530}^{+*}$ 256	$[16, 4, 2^2, 1^{12}]$
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_{11}^{+*}$	$16T_{541}^{+*}$ 256	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_{11}^{+*}$	$16T_{552}^{+*}$ 256	$[16, 4, 2^2, 1^{12}]$
$[8, 2^3, 1^2]$	$(1T_1)^3$ , $(2T_1)^3$ , $8T_{11}^{+*}$	$ \begin{array}{ccc} 16T_{552}^{+*} & 256 \\ 16T_{553}^{+*} & 256 \end{array} $	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_{11}^{+*}$	$16T_{600}^{+*}$ 256	$[16, 4, 2, 1]$ $[16, 4, 2^2, 1^{12}]$
	$(1T_1)^2$ , $(2T_1)^3$ , $8T_{11}^{+*}$	$16T_{600}^{+*}$ 256	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[8, 2^3, 1^2]$		020	
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_{11}^{+*}$	16T <sub>630</sub> <sup>+*</sup> 256	$[16, 4, 2^2, 1^{12}]$
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_{11}^{+*}$	16T <sub>631</sub> <sup>+*</sup> 256	$[16, 4, 2^2, 1^{12}]$
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_{11}^{+*}$	$16T_{636}^{+*}$ 256	$[16, 4, 2^2, 1^{12}]$
$G$ : Possible Galois Groups, $D(G)$ : Degrees of factors, $S(G)$ : Galois Groups of factors, $\mathcal{L}(G)$ : Initial Degrees			

Splitting table of degree 16

D(G)	S(G)	G	$\mathcal{L}(G)$
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_{11}^{+*}$	$16T_{877}^{+*}$ 512	$[16, 4, 2^3, 1^{11}]$
$[8, 2^3, 1^2]$	$(1T_1)^3$ , $(2T_1)^3$ , $8T_{11}^{+*}$	$16T_{908}^{+*}$ 512	$[16, 4, 2^3, 1^{11}]$
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_{16}^*$	$16T_{1233}^{*}$ $1024$	$[16, 8, 2^3, 1^{11}]$
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_{16}^*$	$16T_{1240}^*$ $1024$	$[16, 8, 2^3, 1^{11}]$
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_{16}^*$	$16T_{1240}^{+*}$ $1024$	$[16, 8, 2^3, 1^{11}]$
$[8, 2^3, 1^2]$	$(1T_1)^3$ , $(2T_1)^3$ , $8T_{16}^*$	$16T_{1258}^{+*}$ $1024$	$[16, 8, 2^3, 1^{11}]$
$[8, 2^3, 1^2]$	$(1T_1)^2 (2T_1)^3 8T^*$	$16T_{1258}^{*}$ $102T_{1373}^{*}$ $2048$	$[16, 8, 2^4, 1^{10}]$
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_{16}^*$	$16T_{1374}^{+*}$ 2048	$[16, 6, 2, 1]$ $[16, 4, 2^5, 1^9]$
	$\begin{array}{c} (1T_1)^2, (2T_1)^3, 8T_{16}^* \\ (1T_1)^2, (2T_1)^3, 8T_{16}^{+*} \\ (1T_1)^2, (2T_1)^3, 8T_{20}^{+*} \\ (1T_1)^2, (2T_1)^3, 8T_{20}^{+*} \end{array}$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
	$(1T_1)^2$ , $(2T_1)^3$ , $8T_{20}^{+*}$	$16T_{1205}^{+*}$ $1024$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[8, 2^3, 1^2]$	$(1T_1)^3$ , $(2T_1)^3$ , $8T_{20}^{+*}$	$16T_{1235}^*$ $1024$ $16T_{1264}^*$ $1024$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_{20}^{+*}$	$16T_{1264}^*$ $1024$ $16T_{1274}^*$ $1024$	$[16, 8, 2^3, 1^{11}]$
$   \begin{array}{c cccccccccccccccccccccccccccccccccc$	$(1T_1)^{2}, (2T_1)^{3}, 8T_{20}^{+*}$	$16T_{1274} - 1024$ $16T_{1402}^* - 2048$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_{20}^{+*}$		$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$   \begin{array}{c cccc}                                 $	$(1T_1)^{2}, (2T_1)^{3}, 8T_{21}^{*}$ $(1T_1)^{2}, (2T_1)^{3}, 8T_{21}^{*}$	$ \begin{array}{c cccc} 16T_{1429}^{+*} & 2048 \\ 16T_{1410}^{+*} & 2048 \end{array} $	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
	$(1T_1)^{3}, (2T_1)^{3}, 8T_{21}^{*}$ $(1T_1)^{2}, (2T_1)^{3}, 8T_{21}^{*}$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$   \begin{bmatrix}     16, 4, 2^5, 1^9 \\     16, 8, 2^4, 1^{10}   \end{bmatrix} $
$[8, 2^3, 1^2]$	$(1T_1)^{\frac{1}{2}}, (2T_1)^{\frac{1}{2}}, 8T_{21}^{\frac{1}{2}}$	$16T_{1425}^{*}$ $2048$ $16T_{1452}^{*}$ $2048$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$(1T_1)^{2}, (2T_1)^{3}, 8T_{22}^{+*}$	$16T_{1452}^{+*}$ $2048$ $16T_{778}^{+*}$ $512$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{c} (1T_1)^2, (2T_1)^3, 8T_{22}^{++} \\ \end{array}$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$   \begin{bmatrix}     8, 2^3, 1 \\     \hline     [8, 2^3, 1^2]   \end{bmatrix} $	$(1T_1)^{2}, (2T_1)^{3}, 8T_{22}^{+*}$ $(1T_1)^{2}, (2T_1)^{3}, 8T_{22}^{+*}$	$16T_{785} - 512$ $16T_{786}^{+*} - 512$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[8, 2^3, 1^2]$	$(111)$ , $(211)$ , $61_{22}$	$16T_{786} - 512$ $16T_{789}^{+*} - 512$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
	$(1T_1)^2$ , $(2T_1)^3$ , $8T_{22}^{+*}$	101 <sub>789</sub> 312	
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_{22}^{+*}$	$16T_{790}^{+*}$ 512	$[16, 8, 2^2, 1^{12}]$
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_{22}^{+*}$	101792 312	$[16, 8, 2^2, 1^{12}]$
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_{22}^{+*}$	16T <sup>+*</sup> <sub>795</sub> 512	$[16, 8, 2^2, 1^{12}]$
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_{22}^{+*}$	16T <sup>+*</sup> <sub>798</sub> 512	$[16, 8, 2^2, 1^{12}]$
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_{22}^{+*}$	$16T_{800}^{+*}$ 512	$[16, 8, 2^2, 1^{12}]$
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_{22}^{+*}$	16T <sub>808</sub> 512	[16, 8, 2 <sup>2</sup> , 1 <sup>12</sup> ]
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_{22}^{+*}$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$[16, 8, 2^2, 1^{12}]$
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_{22}^{+*}$	16T <sub>819</sub> 512	$[16, 8, 2^2, 1^{12}]$
$[8, 2^3, 1^2]$	$\begin{array}{c} (1T_1)^2, (2T_1)^3, 8T_{22}^{+*} \\ (1T_1)^2, (2T_1)^3, 8T_{22}^{+*} \\ (1T_1)^2, (2T_1)^3, 8T_{22}^{+*} \\ (1T_1)^2, (2T_1)^3, 8T_{22}^{+*} \end{array}$	16T <sub>827</sub> <sup>+*</sup> 512	$[16, 8, 2^2, 1^{12}]$
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_{22}^{+*}$	$16T_{837}^{+*}$ 512	$[16, 8, 2^2, 1^{12}]$
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_{22}^{+*}$	$16T_{839}^{+*}$ 512	$[16, 8, 2^2, 1^{12}]$
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_{22}^{++}$	$16T_{868}^{+*}$ 512	$[16, 8, 2^2, 1^{12}]$
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_{22}^{+*}$	101 1087 1024	$[16, 8, 2^3, 1^{11}]$
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_{22}^{+*}$	$16T_{1093}^{+*}$ 1024	$[16, 8, 2^3, 1^{11}]$
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_{22}^{+*}$	$16T_{1100}^{+*}$ 1024	$[16, 8, 2^3, 1^{11}]$
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_{22}^{+*}$	$16T_{1105}^{+*}$ 1024	$[16, 8, 2^3, 1^{11}]$
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_{22}^{+*}$	$16T^*_{1252}$ 1024	$[16, 8, 2^3, 1^{11}]$
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_{22}^{+*}$	$16T_{1260}^*$ 1024	$[16, 8, 2^3, 1^{11}]$
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_{22}^{+*}$	$16T^*_{1265}$ 1024	$[16, 8, 2^3, 1^{11}]$
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_{22}^{+*}$	$16T_{1271}^*$ 1024	$[16, 8, 2^3, 1^{11}]$
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_{22}^{+*}$	$16T_{1332}^{+*}$ 2048	$[16, 8, 2^4, 1^{10}]$
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_{22}^{+*}$	$16T_{1400}^*$ 2048	$[16, 4, 2^5, 1^9]$
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_{27}^*$	$16T_{1606}^*$ 4096	$[16, 8, 2^5, 1^9]$
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_{27}^*$	$16T_{1614}^{+*}$ 4096	$[16, 8, 2^5, 1^9]$
G: Poss	ible Galois Groups, $D(G)$ : Degrees of		ps of factors, $\mathcal{L}(G)$ : Initial Degrees

Splitting table of degree 16

D(G)	S(G)	G	$\mid G \mid$	$\mathcal{L}(G)$
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_{27}^*$	$16T_{1630}^*$	4096	$[16, 8, 2^5, 1^9]$
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_{27}^*$	$16T^*_{1635}$	4096	$[16, 8, 2^5, 1^9]$
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_{27}^*$	$16T_{1722}^*$	8192	[16, 8, 26, 18]
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_{31}^*$	$16T_{1576}^*$	4096	$[16, 8, 2^5, 1^9]$
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_{31}^*$	$16T_{1581}^*$	4096	$[16, 8, 2^5, 1^9]$
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_{31}^*$	$16T_{1591}^{+*}$	4096	$[16, 8, 2^5, 1^9]$
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_{31}^*$	$16T_{1602}^*$	4096	$[16, 8, 2^5, 1^9]$
$[8, 2^3, 1^2]$	$(1T_1)^2$ , $(2T_1)^3$ , $8T_{31}^*$	$16T_{1710}^*$	8192	$[16, 8, 2^6, 1^8]$
$[6, 3^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(3T_1^{+*})^2$ , $6T_1^*$	$16T_{179}^{++}$ $16T_{180}^{++}$ $16T_{192}^{++}$ $16T_{193}^{++}$	96	$[16, 3, 2, 1^{13}]$
$[6, 3^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(3T_1^{+*})^2$ , $6T_1^*$	$16T_{180}^{+*}$	96	$[16, 3, 2, 1^{13}]$
$[6, 3^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(3T_1^{+*})^2$ , $6T_1^*$	$16T_{192}^{+*}$	96	$[16, 3, 2, 1^{13}]$
$[6, 3^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(3T_1^{+*})^2$ , $6T_1^*$	$16T_{193}^{+*}$	96	$[16, 3, 2, 1^{13}]$
$[6, 3^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(3T_2^*)^2$ , $6T_2^*$	$16T_{186}^{+*}$	96	$[16, 3, 2, 1^{13}]$
$[6, 3^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(3T_2^*)^2$ , $6T_2^*$	$16T_{187}^{+*}$	96	$[16, 6, 1^{14}]$
$[6, 3^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(3T_2^*)^2$ , $6T_2^*$	$16T_{190}^{+*}$	96	$[16, 6, 1^{14}]$
$[6, 3^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(3T_2^*)^2$ , $6T_2^*$	$16T_{191}^{+*}$	96	$[16, 3, 2, 1^{13}]$
$[6, 3^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(3T_2^*)^2$ , $6T_3^*$	$16T_{421}^{+*}$	192	$[16, 3, 2^2, 1^{12}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_1^*)^3$	$16T_{140}^{+*}$	64	$[16, 4, 1^{14}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_1^*)^3$	$16T_{148}^{+*}$ $16T_{166}^{+*}$ $16T_{176}^{+*}$ $16T_{454}^{+*}$	64	$[16, 4, 1^{14}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_1^*)^3$	$16T_{166}^{+*}$	64	$[16, 4, 1^{14}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_1^*)^3$	$16T_{176}^{+*}$	64	$[16, 4, 1^{14}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_1^*$ , $(4T_3^*)^2$	$16T_{454}^{+*}$	256	$[16, 4, 2^2, 1^{12}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_1^*$ , $(4T_3^*)^2$	$101_{494}$	256	$[16, 4, 2^2, 1^{12}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_1^*$ , $(4T_3^*)^2$	$16T_{497}^{+*}$	256	$[16, 4, 2^2, 1^{12}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_1^*$ , $(4T_3^*)^2$	$16T_{501}^{+*}$	256	$[16, 4, 2^2, 1^{12}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_1^*$ , $(4T_3^*)^2$	$16T_{523}^{+*}$	256	$[16, 4, 2^2, 1^{12}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_1^*$ , $(4T_3^*)^2$	$16T_{524}^{+*}$	256	$[16, 4, 2^2, 1^{12}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_1^*$ , $(4T_3^*)^2$	$16T_{525}^{+*}$	256	$[16, 4, 2^2, 1^{12}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_1^*$ , $(4T_3^*)^2$	$16T_{566}^{+*}$	256	$[16, 4, 2^2, 1^{12}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_1^*$ , $(4T_3^*)^2$	$16T_{572}^{+*}$ $16T_{575}^{+*}$	256	$[16, 4, 2^2, 1^{12}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_1^*$ , $(4T_3^*)^2$	$16T_{575}^{+*}$	256	$[16, 4, 2^2, 1^{12}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_1^*$ , $(4T_3^*)^2$	$16T_{587}^{+*}$ $16T_{593}^{+*}$	256	$[16, 4, 2^2, 1^{12}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_1^*$ , $(4T_3^*)^2$	$16T_{593}^{+*}$	256	$[16, 4, 2^2, 1^{12}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_1^*$ , $(4T_3^*)^2$	$16T_{611}^{+*}$	256	$[16, 4, 2^2, 1^{12}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_1^*$ , $(4T_3^*)^2$	$16T_{622}^{+*}$	256	$[16, 4, 2^2, 1^{12}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_1^*$ , $(4T_3^*)^2$	$16T_{682}^{+*}$	256	$[16, 4, 2^2, 1^{12}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_1^*$ , $(4T_3^*)^2$	$16T_{686}^{+*}$	256	$[16, 2^4, 1^{11}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_1^*$ , $(4T_3^*)^2$	$16T_{691}^{+*}$	256	$[16, 2^4, 1^{11}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_1^*$ , $(4T_3^*)^2$	$16T_{695}^{+*}$	256	$[16, 4, 2^2, 1^{12}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_1^*$ , $(4T_3^*)^2$	$16T_{802}^{+*}$	512	$[16, 4, 2^3, 1^{11}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_1^*$ , $(4T_3^*)^2$	$16T_{862}^{+*}$ $16T_{904}^{+*}$	512	$[16, 4, 2^3, 1^{11}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_1^*$ , $(4T_3^*)^2$	$16T_{904}^{+*}$	512	$[16, 4, 2^3, 1^{11}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_1^*$ , $(4T_3^*)^2$	$16T_{910}^{+*}$	512	$[16, 4, 2^3, 1^{11}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_1^*$ , $(4T_3^*)^2$	$16T_{923}^{+*}$	512	$[16, 4, 2^3, 1^{11}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_1^*$ , $(4T_3^*)^2$	$16T_{927}^{+*}$	512	$[16, 4, 2^3, 1^{11}]$
G: Possi	ble Galois Groups, $D(G)$ : Degrees o	f factors, $S($	G): Galois Group	es of factors, $\mathcal{L}(G)$ : Initial Degrees

Splitting table of degree 16

D(C)	S(C)	G	$\mid G \mid$	$\mathcal{C}(C)$	
D(G) [4 <sup>3</sup> , 2, 1 <sup>2</sup> ]	S(G)		512	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	
	$(1T_1)^2$ , $2T_1$ , $4T_1^*$ , $(4T_3^*)^2$	$16T_{932}^{+*}$		$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
	$(1T_1)^2$ , $2T_1$ , $4T_1^*$ , $(4T_3^*)^2$	$16T_{1153}^{+*}$	1024		
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_1^*$ , $(4T_3^*)^2$	$16T_{1168}^{+*}$	1024	$[16, 4, 2^4, 1^{10}]$	
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_1^*$ , $(4T_3^*)^2$	$16T_{1263}^{+*}$	1024	$[16, 4, 2^4, 1^{10}]$	
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_2^{+*}$ , $(4T_3^*)^2$	16T <sub>308</sub> <sup>+*</sup>	128	$[16, 4, 2, 1^{13}]$	
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_2^{+*}$ , $(4T_3^*)^2$	$16T_{348}^*$	128	$[16, 2^3, 1^{12}]$	
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_2^{+*}$ , $(4T_3^*)^2$	$16T^*_{355}$	128	$[16, 4, 2, 1^{13}]$	
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_1^{**}$ , $(4T_3^*)^2$	$16T_{362}^{+*}$	128	$[16, 4, 2, 1^{13}]$	
$[4^3, 2, 1^2]$	$\begin{array}{c} (171)^{2}, \ 271, \ 472^{+}, \ (473)^{2} \\ (17_{1})^{2}, \ 27_{1}, \ 472^{+}, \ (473)^{2} \\ (17_{1})^{2}, \ 27_{1}, \ 472^{+}, \ (473)^{2} \\ (17_{1})^{2}, \ 27_{1}, \ 472^{+}, \ (473)^{2} \end{array}$	$16T_{371}^*$	128	$[16, 2^3, 1^{12}]$	
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_2^{++}$ , $(4T_3^{+})^2$	$16T^*_{374}$	128	$[16, 2^3, 1^{12}]$	
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_2^{+*}$ , $(4T_3^*)^2$	$16T_{375}^*$	128	$[16, 4, 2, 1^{13}]$	
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_2^{+*}$ , $(4T_3^*)^2$	$16T_{385}^*$	128	$[16, 2^3, 1^{12}]$	
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_2^{+*}$ , $(4T_3^*)^2$	$16T_{455}^{+*}$	256	$[16, 4, 2^2, 1^{12}]$	
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_2^{+*}$ , $(4T_3^*)^2$	$16T_{457}^{+*}$	256	$[16, 4, 2^2, 1^{12}]$	
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_2^{+*}$ , $(4T_3^*)^2$	$16T_{483}^{+*}$	256	$[16, 4, 2^2, 1^{12}]$	
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_2^{+*}$ , $(4T_3^*)^2$	$16T_{514}^{+*}$	256	$[16, 4, 2^2, 1^{12}]$	
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_2^{+*}$ , $(4T_3^*)^2$	$16T_{518}^{+*}$	256	$[16, 4, 2^2, 1^{12}]$	
$[4^3, 2, 1^2]$	$\begin{array}{c} (1T_1)^2, \ 2T_1, \ 4T_2^{+*}, \ (4T_3^*)^2 \\ (1T_1)^2, \ 2T_1, \ 4T_2^{+*}, \ (4T_3^*)^2 \\ (1T_1)^2, \ 2T_1, \ 4T_2^{+*}, \ (4T_3^*)^2 \\ \end{array}$	$ \begin{array}{c}     16T_{518}^{+*} \\     16T_{520}^{+*} \end{array} $	256	$[16, 4, 2^2, 1^{12}]$	
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_2^{+*}$ , $(4T_3^*)^2$	$16T_{534}^*$	256	$[16, 4, 2^2, 1^{12}]$	
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_2^{+*}$ , $(4T_3^*)^2$	$16T_{557}^*$	256	$[16, 4, 2^2, 1^{12}]$	
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_2^{+*}$ , $(4T_3^*)^2$	$16T_{558}^*$	256	$[16, 4, 2^2, 1^{12}]$	
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_2^{+*}$ , $(4T_3^*)^2$	$16T_{562}^{+*}$	256	$[16, 4, 2^2, 1^{12}]$	
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_2^{+*}$ , $(4T_3^*)^2$	$16T_{567}^*$	256	$[16, 4, 2^2, 1^{12}]$	
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_2^{+*}$ , $(4T_3^*)^2$	$16T_{570}^{+*}$	256	$[16, 4, 2^2, 1^{12}]$	
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_2^{+*}$ , $(4T_3^*)^2$	$16T_{577}^*$	256	$[16, 4, 2^2, 1^{12}]$	
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_2^{+*}$ , $(4T_3^*)^2$	$16T_{603}^{+*}$	256	$[16, 4, 2^2, 1^{12}]$	
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_2^{+*}$ , $(4T_2^*)^2$	$16T_{620}^*$	256	$[16, 4, 2^2, 1^{12}]$	
$[4^3, 2, 1^2]$	$\begin{array}{c} (17), 27, 27, (23) \\ (17_1)^2, 27_1, 47_2^{+*}, (47_3^*)^2 \\ (17_1)^2, 27_1, 47_2^{+*}, (47_3^*)^2 \\ (17_1)^2, 27_1, 47_2^{+*}, (47_3^*)^2 \\ \end{array}$	$16T_{640}^{+*}$	256	$[16, 4, 2^2, 1^{12}]$	
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_2^{+*}$ , $(4T_2^*)^2$	$16T_{659}^{*}$	256	$[16, 4^2, 1^{13}]$	
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_2^{+*}$ , $(4T_2^*)^2$	$16T_{661}^{*}$	256	$[16, 4^2, 1^{13}]$	
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_2^{+*}$ , $(4T_3^*)^2$	$16T_{670}^{*}$	256	$[16, 2^4, 1^{11}]$	
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_2^{+*}$ , $(4T_3^*)^2$	$16T_{676}^*$	256	$ \begin{bmatrix} 16, 2^4, 1^{11} \end{bmatrix} $	
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_2^{+*}$ , $(4T_3^*)^2$	$16T_{685}^*$	256	$[16, 4^2, 1^{13}]$	
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_2^{+*}$ , $(4T_3^*)^2$	$16T_{692}^*$	256	$[16, 4^2, 1^{13}]$	
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_2^{+*}$ , $(4T_3^*)^2$	$16T_{806}^{+*}$	512	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_2^{+*}$ , $(4T_3^*)^2$	$16T_{844}^{+*}$	512	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $1T_2$ , $(1T_3)^2$	$16T_{855}^*$	512	$   \begin{bmatrix}     16, 4, 2^3, 1^{11}   \end{bmatrix}   $	
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $1T_2$ , $(1T_3)^2$ $(1T_1)^2$ , $2T_1$ , $4T_2^{+*}$ , $(4T_3^*)^2$	$16T_{856}^*$ $16T_{856}^*$	512	$   \begin{bmatrix}     16, 4, 2^3, 1^{11}   \end{bmatrix}   $	
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_2^2$ , $(4T_3)^2$	$16T_{858}^*$	512	$   \begin{bmatrix}     16, 4, 2^3, 1^{11} \\     \hline     16, 4, 2^3, 1^{11}   \end{bmatrix} $	
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_2$ , $(4T_3)^2$ $(1T_1)^2$ , $2T_1$ , $4T_2^{+*}$ , $(4T_3^*)^2$		512	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$[4^3, 2, 1]$ $[4^3, 2, 1^2]$	$(1T_1)^{2}, 2T_1, 4T_2^{2}, (4T_3)^{2}$ $(1T_1)^{2}, 2T_1, 4T_2^{+*}, (4T_3^{*})^{2}$	$16T^*_{859}$	512	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
		$16T^*_{889}$	512	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
L / / J	$(1T_1)^2$ , $2T_1$ , $4T_2^{+*}$ , $(4T_3^*)^2$	$16T_{891}^{+*}$	512		
	$(1T_1)^2$ , $2T_1$ , $4T_2^{+*}$ , $(4T_3^*)^2$	$16T_{905}^*$		$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_2^{+*}$ , $(4T_3^*)^2$	16T*	512		
	$ [4^3, 2, 1^2]    (1T_1)^2, 2T_1, 4T_2^{+*}, (4T_3^*)^2 \mid 16T_{934}^*  512 \qquad   [16, 4, 2^3, 1^{11}] $				
G: Possible Galois Groups, $D(G)$ : Degrees of factors, $S(G)$ : Galois Groups of factors, $\mathcal{L}(G)$ : Initial Degrees $\Longrightarrow$					

Splitting table of degree 16

D(C)	C(C)	C		$\mathcal{C}(C)$
D(G)	S(G)	G 10TF*	G	$\mathcal{L}(G)$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_2^{+*}$ , $(4T_3^*)^2$	$16T_{1020}^*$	512	$[16, 4, 2^3, 1^{11}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_2^{+*}$ , $(4T_3^*)^2$	$16T^*_{1185}$	1024	$[16, 4, 2^4, 1^{10}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_2^{+*}$ , $(4T_3^*)^2$	$16T_{1190}^*$	1024	$[16, 4, 2^4, 1^{10}]$
$[4^3, 2, 1^2]$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$16T^*_{1251}$	1024	$[16, 4, 2^4, 1^{10}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{395}^{+*}$	128	$[16, 4, 2, 1^{13}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{399}^{+*}$	128	$[16, 4, 2, 1^{13}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1251}^*$ $16T_{395}^{+*}$ $16T_{399}^{+*}$ $16T_{782}^{+*}$ $16T_{784}^{+*}$	512	$[16, 4^2, 2, 1^{12}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{784}^{+*}$	512	$[16, 4^2, 2, 1^{12}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$101_{793}$	512	$[16, 4^2, 2, 1^{12}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{809}^{+*}$	512	$[16, 4^2, 2, 1^{12}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{852}^{+*}$	512	$[16, 4^2, 2, 1^{12}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{\rm ecc}^{+*}$	512	$[16, 4^2, 2, 1^{12}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{864}^{+*}$	512	$[16, 4^2, 2, 1^{12}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{939}^{+*}$	512	$[16, 4^2, 2, 1^{12}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$   \begin{array}{c}     16T_{864}^{+*} \\     16T_{939}^{+*} \\     16T_{962}^{+*} \\     16T_{976}^{**}   \end{array} $	512	$   \begin{bmatrix}     16, 4, 2^3, 1^{11} \\     16, 4^2, 2, 1^{12}   \end{bmatrix} $
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{976}^*$	512	$[16, 4^2, 2, 1^{12}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{977}^*$	512	$[16, 4^2, 2, 1^{12}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$ \begin{array}{c} 16T_{977}^* \\ 16T_{978}^{+*} \end{array} $	512	$[16, 4, 2^3, 1^{11}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{981}^{+*}$	512	$[16, 4, 2^3, 1^{11}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{990}^{*}$	512	$[16, 4, 2^3, 1^{11}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{992}^{+*}$	512	$[16, 4, 2^3, 1^{11}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{993}^{+*}$	512	$[16, 4, 2^3, 1^{11}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{999}^{+*}$	512	$[16, 4, 2^3, 1^{11}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1001}^*$	512	$ \begin{bmatrix} 16, 4, 2^3, 1^{11} \end{bmatrix} $
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1000}^{+*}$	512	$ \begin{bmatrix} 16, 4, 2^3, 1^{11} \end{bmatrix} $
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$   \begin{array}{c}     1001 \\     16T_{1002}^{+*} \\     16T_{1004}^{*} \\     16T_{1007}^{*} \\     16T_{1012}^{*}   \end{array} $	512	$[16, 4^2, 2, 1^{12}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1004}^*$	512	$   \begin{bmatrix}     16, 4, 2^3, 1^{11}   \end{bmatrix}   $
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(1T_3)^3$	$16T_{1007}^*$	512	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(1T_3)^3$	$16T_{1018}^*$ $16T_{1018}^*$	512	$   \begin{bmatrix}     16, 4^2, 2, 1^{12}   \end{bmatrix}   $
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3)^3$	$16T_{1018}^{+*}$	512	$[16, 4, 2^3, 1^{11}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3)^3$	$ \begin{array}{c} 16T_{1019}^{+*} \\ 16T_{1026}^{+*} \end{array} $	512	$[16, 4, 2^3, 1^{11}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3)^3$	$16T_{1026}^{+*}$ $16T_{1083}^{+*}$	1024	$[16, 4^2, 2^2, 1^{11}]$
$[4^3, 2, 1]$ $[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3)^3$	$16T_{1084}^{+*}$ $16T_{1084}^{+*}$	1024	$[16, 4^2, 2^2, 1^{11}]$
$[4^3, 2, 1]$ $[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3)^3$	$16T_{1084} \ 16T_{1085}^{+*}$	1024	$[16, 4, 2^4, 1^{10}]$
$[4^3, 2, 1]$ $[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3)^3$		1024	
	$(1T_1)^2$ , $2T_1$ , $(4T_3)^3$	$16T_{1089}^{+*}$	1024	$ \begin{array}{c} [16, 4, 2^4, 1^{10}] \\ [16, 4^2, 2^2, 1^{11}] \end{array} $
	, , ,	$16T_{1090}^{+*}$		$[16, 4, 2^4, 1^{10}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1091}^{+*}$	1024	
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1092}^{+*}$	1024	$[16, 4^2, 2^2, 1^{11}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1096}^{+*}$	1024	$[16, 4^2, 2^2, 1^{11}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1099}^{+*}$	1024	$[16, 4^2, 2^2, 1^{11}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1104}^{+*}$	1024	$[16, 4, 2^4, 1^{10}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1110}^{+*}$	1024	$[16, 4^2, 2^2, 1^{11}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	16T <sub>1111</sub>	1024	$[16, 4^2, 2^2, 1^{11}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1114}^{+*}$	1024	$[16, 4^2, 2^2, 1^{11}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1115}^{+*}$	1024	$[16, 4^2, 2^2, 1^{11}]$
$G$ : Possible Galois Groups, $D(G)$ : Degrees of factors, $S(G)$ : Galois Groups of factors, $\mathcal{L}(G)$ : Initial Degrees				

Splitting table of degree 16

D(G)	S(G)	G $G$	$\mathcal{L}(G)$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1117}^{+*}$ $1024$	$[16, 4^2, 2^2, 1^{11}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1118}^{*}$ $1024$	$[16, 4^2, 2^2, 1^{11}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1121}^{+*}$ 1024	$[16, 4^2, 2^2, 1^{11}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1133}^*$ $1024$	$[16, 4^2, 2^2, 1^{11}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1138}^*$ 1024	$[16, 4, 2^4, 1^{10}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1142}^{+*}$ 1024	$[16, 4^2, 2^2, 1^{11}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1143}^{+*}$ 1024	$[16, 4, 2^4, 1^{10}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$[16, 4^2, 2^2, 1^{11}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1145}^{+*}$ 1024	$[16, 4, 2^4, 1^{10}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1150}^*$ 1024	$[16, 4, 2^4, 1^{10}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1151}^*$ 1024	$[16, 4^2, 2^2, 1^{11}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1155}^{*}$ 1024	$[16, 4^2, 2^2, 1^{11}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1156}^{*}$ 1024	$[16, 4^2, 2^2, 1^{11}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1157}^{+*}$ 1024	$[16, 4, 2^4, 1^{10}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1159}^{+*}$ 1024	$[16, 4, 2^4, 1^{10}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1161}^{+*}$ 1024	$[16, 4^2, 2^2, 1^{11}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1163}^{*}$ 1024	$[16, 4^2, 2^2, 1^{11}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1164}^{+*}$ 1024	$[16, 4^2, 2^2, 1^{11}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1182}^{+*}$ 1024	$[16, 4^2, 2^2, 1^{11}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1186}^*$ 1024	$[16, 4^2, 2^2, 1^{11}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$ \begin{array}{c cccc} 16T_{1188}^* & 1024 \\ 16T_{1196}^{+*} & 1024 \end{array} $	$[16, 4^2, 2^2, 1^{11}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1196}^{+*}$ 1024	$[16, 4^2, 2^2, 1^{11}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$  16T^*_{1199}   1024$	$[16, 4, 2^4, 1^{10}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1201}^{+*}$ 1024	$[16, 4, 2^4, 1^{10}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1203}^{+*}$ 1024	$[16, 4^2, 2^2, 1^{11}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1206}^{+*}$ 1024	$[16, 4, 2^4, 1^{10}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1207}^{+*}$ 1024	$[16, 4^2, 2^2, 1^{11}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1208}^{+*}$ 1024	$[16, 4^2, 2^2, 1^{11}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1209}^{+*}$ 1024	$[16, 4, 2^4, 1^{10}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1211}^*$ 1024	$[16, 4^2, 2^2, 1^{11}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1212}^*$ 1024	$[16, 4^2, 2^2, 1^{11}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$[16, 4^2, 2^2, 1^{11}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T^*_{1217}$ 1024	$[16, 4^2, 2^2, 1^{11}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1219}^{+*}$ 1024	$[16, 4^2, 2^2, 1^{11}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1222}^*$ $1024$	$[16, 4^2, 2^2, 1^{11}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T^*_{1227}$ 1024	$[16, 4, 2^4, 1^{10}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T^*_{1230}$ 1024	$[16, 4^2, 2^2, 1^{11}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1231}^{+*}$ 1024	$[16, 4^2, 2^2, 1^{11}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1232}^{+*}$ 1024	$[16, 4^2, 2^2, 1^{11}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1234}^{+*}$ 1024	$[16, 4, 2^4, 1^{10}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1237}^{+*}$ $1024$	$[16, 4^2, 2^2, 1^{11}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1239}^{+*}$ $1024$	$[16, 4, 2^4, 1^{10}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1243}^{+*}$ 1024	$[16, 4, 2^4, 1^{10}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1244}^{+*}$ 1024	$[16, 4^2, 2^2, 1^{11}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1248}^{+*}$ 1024	$[16, 4, 2^4, 1^{10}]$
G: Poss	sible Galois Groups, $D(G)$ : Degrees	s of factors, $S(G)$ : Galois Grou	ps of factors, $\mathcal{L}(G)$ : Initial Degrees

Splitting table of degree 16

D(G)	S(G)	G   G	$\mathcal{L}(G)$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1249}^*$ $1024$	$[16, 4, 2^4, 1^{10}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1250}^{*}$ 1024	$[16, 4, 2^4, 1^{10}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1253}^{+*}$ 1024	$[16, 4, 2^4, 1^{10}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1254}^{*}$ 1024	$[16, 4, 2^4, 1^{10}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1266}^{*}$ 1024	$[16, 4, 2^4, 1^{10}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1267}^{+*}$ 1024	$[16, 4, 2^4, 1^{10}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1269}^*$ 1024	$[16, 4, 2^4, 1^{10}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1272}^{+*}$ 1024	$[16, 4, 2^4, 1^{10}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1277}^*$ 1024	$[16, 4, 2^4, 1^{10}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1278}^{+*}$ 1024	$[16, 4, 2^4, 1^{10}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$[16, 4^2, 2^2, 1^{11}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1330}^{+*}$ 2048	$[16, 4, 2^5, 1^9]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1331}^{+*}$ 2048	$[16, 4^2, 2^3, 1^{10}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1333}^{+*}$ 2048	$[16, 4^2, 2^3, 1^{10}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1334}^{+*}$ 2048	$[16, 4^2, 2^3, 1^{10}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1339}^{+*}$ 2048	$[16, 4^2, 2^3, 1^{10}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1341}^{+*}$ 2048	$[16, 4^2, 2^3, 1^{10}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1342}^{+*}$ 2048	$[16, 4^2, 2^3, 1^{10}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1343}^*$ 2048	$[16, 4^2, 2^3, 1^{10}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$[16, 4, 2^5, 1^9]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1346}^{+*}$ 2048	$[16, 4^2, 2^3, 1^{10}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1349}^*$ 2048	$[16, 4^2, 2^3, 1^{10}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1352}^{+*}$ 2048	$[16, 4^3, 2, 1^{11}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1353}^{+*}$ 2048	$[16, 4^2, 2^3, 1^{10}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T^*_{1354}$ 2048	$[16, 4^2, 2^3, 1^{10}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1356}^{+*}$ 2048	$[16, 4^3, 2, 1^{11}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T^*_{1358}$ 2048	$[16, 4^2, 2^3, 1^{10}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	16T* 2048	$[16, 4^2, 2^3, 1^{10}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T^*_{1360}$ 2048	$[16, 4^2, 2^3, 1^{10}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	16T <sub>1362</sub> 2048	$[16, 4^2, 2^3, 1^{10}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	16T <sub>1364</sub> 2048	$[16, 4^2, 2^3, 1^{10}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	16T <sub>1365</sub> 2048	$[16, 4^2, 2^3, 1^{10}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	16T <sub>1368</sub> 2048	$[16, 4^2, 2^3, 1^{10}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	16T <sub>1371</sub> 2048	$[16, 4^2, 2^3, 1^{10}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	16T <sub>1375</sub> 2048	$[16, 4^2, 2^3, 1^{10}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	16T <sub>1376</sub> 2048	$\begin{bmatrix} [16, 4, 2^5, 1^9] \\ [16, 4^2, 2^3, 1^{10}] \end{bmatrix}$
$ \begin{array}{c cccc}                                 $	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1383}^{+*}$ 2048 $16T_{1384}^{*}$ 2048	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^3, 2, 1^2]$ $[4^3, 2, 1^2]$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	1304	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^3, 2, 1]$ $[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3)^3$	16T <sub>1385</sub> 2048	$\begin{bmatrix} 10, 4^3, 2, 1 \end{bmatrix}$
$[4^3, 2, 1]$ $[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3)^3$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{bmatrix} 10, \ 4, \ 2, \ 1 \end{bmatrix}$
$[4^3, 2, 1]$	$(1T_1)^2$ , $2T_1$ , $(4T_3)^3$	1000	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^3, 2, 1]$ $[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3)^3$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$[16, 4^2, 2^3, 1^4]$
$[4^3, 2, 1]$	$(1T_1)^2$ , $2T_1$ , $(4T_3)^3$	$16T_{1395}^{*}$ 2048 $16T_{1396}^{*}$ 2048	[16, 4, 2, 1]
$[4^3, 2, 1]$	$(1T_1)^2$ , $2T_1$ , $(4T_3)$ $(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1398}^*$ 2048	$\begin{bmatrix} 10, 4, 2, 1 \end{bmatrix}$
	. , , , , , , , , , , , , , , , , , , ,	-	
$G$ : Possible Galois Groups, $D(G)$ : Degrees of factors, $S(G)$ : Galois Groups of factors, $\mathcal{L}(G)$ : Initial Degrees			

Splitting table of degree 16

D(G)	S(G)	G   G	$\mathcal{L}(G)$	
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1399}^*$ 2048	$[16, 4, 2^5, 1^9]$	
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1401}^{+*}$ 2048	$[16, 4^2, 2^3, 1^{10}]$	
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1404}^*$ 2048	$[16, 4^2, 2^3, 1^{10}]$	
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1407}^*$ 2048	$[16, 4^2, 2^3, 1^{10}]$	
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1411}^*$ 2048	$[16, 4^3, 2, 1^{11}]$	
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1415}^*$ 2048	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1416}^*$ 2048	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1410}^*$ 2048	$[16, 4, 2^5, 1^9]$	
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1419}^{+*}$ 2048	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1422}^*$ 2048	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1419}^{+*}$ 2048 $16T_{1419}^{+*}$ 2048 $16T_{1431}^{+*}$ 2048 $16T_{1431}^{+*}$ 2048 $16T_{1435}^{+*}$ 2048	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1431}^{+*}$ 2048	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(1T_3)^2$	$16T_{1436}^{+*}$ 2048	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(1T_3)^2$	$16T_{1437}^{+*}$ 2048	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3)^3$	$16T_{1438}^{+*}$ 2048	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3)^3$	$16T_{1438}^{+*}$ 2048	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3)^3$	$16T_{1443}^*$ 2048	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3)^3$	$16T_{1443}^*$ 2048	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$[4^3, 2, 1]$	$(1T_1)^2$ , $2T_1$ , $(4T_3)^3$		$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$[4^3, 2, 1]$	$(1T_1)^2$ , $2T_1$ , $(4T_3)^2$		$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3)^3$	$ \begin{array}{c ccccc} 16T_{1462}^* & 2048 \\ 16T_{1465}^* & 2048 \end{array} $	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3)^3$	$16T_{1468}^*$ 2048	[16, 4, 2, 1]	
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3)^3$	1 100	$[16, 4, 2, 1]$ $[16, 4, 2^5, 1^9]$	
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3)^3$	1 100	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$[4^3, 2, 1]$	$(1T_1)^2$ , $2T_1$ , $(4T_3)^3$	1110	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3)^3$	$ \begin{array}{c cccc} 16T_{1472}^* & 2048 \\ \hline 16T_{1486}^{+*} & 2048 \end{array} $	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$[4^3, 2, 1]$	$(1T_1)^2$ , $2T_1$ , $(4T_3)^2$	$16T_{1486}^*$ 2048	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3)^2$	$16T_{1489}^{*}$ 2048	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3)^2$	$16T_{1490}^{*}$ 2048	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3)^3$	$16T_{1490}^{+*}$ 2048	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3)^3$	1 10 1	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3)^2$	1011	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$[4^3, 2, 1]$	$(1T_1)^2$ , $2T_1$ , $(4T_3)^2$	1010	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3)^3$	$ \begin{array}{c cccc} 16T_{1549}^* & 4096 \\ 16T_{1550}^* & 4096 \end{array} $	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3)^3$	$16T_{1550}^{+*}$ 4096	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3)^3$	$16T_{1552}^*$ 4096	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3)^3$	$16T_{1552}^{+*}$ $4096$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3)^3$	$16T_{1555}^*$ $4096$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3)^3$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3)^3$		$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$[4^3, 2, 1]$ $[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3)^4$ $(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	1002	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$[4^3, 2, 1]$	$(1T_1)^2$ , $2T_1$ , $(4T_3)^2$ $(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$[4^3, 2, 1]$	$(1T_1)^2$ , $2T_1$ , $(4T_3)^2$ $(1T_1)^2$ , $2T_1$ , $(4T_3)^3$	$16T_{1566}^{*}$ $4096$ $16T_{1573}^{*}$ $4096$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$[4^3, 2, 1]$	$(1T_1)^2$ , $2T_1$ , $(4T_3)^2$ $(1T_1)^2$ , $2T_1$ , $(4T_3)^3$	$16T_{1573}^*$ 4096 $16T_{1580}^*$ 4096	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	
$[4^3, 2, 1]$	$(1T_1)^2$ , $2T_1$ , $(4T_3)^3$	$16T_{1580}^*$ 4096 $16T_{1582}^*$ 4096	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
-	. ,			
G. Poss	$G$ : Possible Galois Groups, $D(G)$ : Degrees of factors, $S(G)$ : Galois Groups of factors, $\mathcal{L}(G)$ : Initial Degrees			

Splitting table of degree 16

D(C)	C(C)		C(G)
D(G)	S(G)	$G \qquad  G $	$\mathcal{L}(G)$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1583}^{+*}$ 4096	$[16, 4^2, 2^4, 1^9]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1584}^*$ 4096	$[16, 4^3, 2^2, 1^{10}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T^*_{1585}$ 4096	$[16, 4^2, 2^4, 1^9]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1586}^*$ 4096	$[16, 4^3, 2^2, 1^{10}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1588}^{+*}$ 4096	$[16, 4^2, 2^4, 1^9]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T^*_{1594}$ 4096	$[16, 4^2, 2^4, 1^9]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$ \begin{array}{ccc} 16T_{1594}^* & 4096 \\ 16T_{1595}^{+*} & 4096 \end{array} $	$[16, 4^2, 2^4, 1^9]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1596}^*$ 4096	$[16, 4^2, 2^4, 1^9]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T^*_{1608}$ 4096	$[16, 4^2, 2^4, 1^9]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1609}^{+*}$ 4096	$[16, 4^3, 2^2, 1^{10}]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T^*_{1610}$ 4096	$[16, 4^2, 2^4, 1^9]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1621}^{+*}$ 4096	$[16, 4^2, 2^4, 1^9]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1626}^*$ 4096	$[16, 4^2, 2^4, 1^9]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1632}^*$ 4096	$[16, 4^2, 2^4, 1^9]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T^*_{1638}$ 4096	$[16, 4, 2^6, 1^8]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T^*_{1643}$ 4096	$[16, 4, 2^6, 1^8]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T^*_{1695}$ 8192	$[16, 4^3, 2^3, 1^9]$
$[4^3, 2, 1^2]$	$(1T_1)^2, 2T_1, (4T_3^*)^3$	$16T_{1696}^*$ 8192	$[16, 4^2, 2^5, 1^8]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1697}^{+*}$ 8192	$[16, 4^3, 2^3, 1^9]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T^*_{1703}$ 8192	$[16, 4^2, 2^5, 1^8]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T^*_{1705}$ 8192	$[16, 4^3, 2^3, 1^9]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1716}^*$ 8192	$[16, 4^3, 2^3, 1^9]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1720}^{+*}$ 8192	$[16, 4^3, 2^3, 1^9]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1721}^*$ 8192	$[16, 4^3, 2^3, 1^9]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T^*_{1723}$ 8192	$[16, 4^2, 2^5, 1^8]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1726}^*$ 8192	$[16, 4^2, 2^5, 1^8]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T^*_{1729}$ 8192	$[16, 4^3, 2^3, 1^9]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1732}^*$ 8192	$[16, 4^3, 2^3, 1^9]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1769}^*$ 16384	$[16, 4^3, 2^4, 1^8]$
$[4^3, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^3$	$16T_{1771}^*$ 16384	$[16, 4^3, 2^4, 1^8]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_1^*$ , $8T_2^{+*}$	$16T_{297}^{+*}$ 128	$[16, 4, 2, 1^{13}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_1^*$ , $8T_2^{+*}$	$16T_{319}^{+*}$ 128	$[16, 4, 2, 1^{13}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_1^*$ , $8T_9^{+*}$	$16T_{921}^{+*}$ 512	$[16, 4, 2^3, 1^{11}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_1^*$ , $8T_{10}^{+*}$	$16T_{543}^{+*}$ 256	$[16, 4, 2^2, 1^{12}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_1^*$ , $8T_{10}^{+*}$	$16T_{544}^{+*}$ 256	$[16, 4, 2^2, 1^{12}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_1^*$ , $8T_{10}^{+*}$	$16T_{582}^{+*}$ 256	$[16, 4, 2^2, 1^{12}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_1^*$ , $8T_{10}^{+*}$	$16T_{583}^{+*}$ 256	$[16, 4, 2^2, 1^{12}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_1^*$ , $8T_{10}^{+*}$	$16T_{887}^{+*}$ 512	$[16, 4, 2^3, 1^{11}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_1^*$ , $8T_{19}^{+*}$	$16T_{847}^{+*}$ 512	$[16, 8, 2^2, 1^{12}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_1^*$ , $8T_{19}^{+*}$	$16T_{865}^{+*}$ 512	$[16, 8, 2^2, 1^{12}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_1^*$ , $8T_{19}^{+*}$	$16T_{901}^{+*}$ 512	$[16, 8, 2^2, 1^{12}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_1^*$ , $8T_{19}^{+*}$	$16T_{924}^{+*}$ 512	$[16, 8, 2^2, 1^{12}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_1^*$ , $8T_{19}^{+*}$	$16T_{949}^{+*}$ 512	$[16, 8, 2^2, 1^{12}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_1^*$ , $8T_{19}^{+*}$	$16T_{950}^{+*}$ 512	$[16, 8, 2^2, 1^{12}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_1^*$ , $8T_{19}^{+*}$	$16T_{956}^{+*}$ 512	$[16, 8, 2^2, 1^{12}]$
G: Possi		· · · · · · · · · · · · · · · · · · ·	ups of factors, $\mathcal{L}(G)$ : Initial Degrees

Splitting table of degree 16

D(G)	S(C)	G $G$	$\mathcal{L}(G)$
	S(G)		$[16, 8, 2^2, 1^{12}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_1^*$ , $8T_{19}^{+*}$	$16T_{973}^{+*}$ 512	
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_1^*$ , $8T_{19}^{+*}$	$16T_{1134}^{+*}$ 1024	$[16, 8, 2^3, 1^{11}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_1^*$ , $8T_{19}^{+*}$	$16T_{1158}^{+*}$ 1024	$[16, 8, 2^3, 1^{11}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_1^*$ , $8T_{19}^{+*}$	$16T_{1218}^{+*}$ 1024	$[16, 8, 2^3, 1^{11}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_1^*$ , $8T_{19}^{+*}$	$16T_{1247}^{+*}$ 1024	$[16, 8, 2^3, 1^{11}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_1^*$ , $8T_{19}^{+*}$	$16T_{1361}^{+*}$ 2048	$[16, 8, 2^4, 1^{10}]$
$[8, 4, 2, 1^2]$	$\begin{array}{c} (11)^2, \ 21, \ 11, \ 319 \\ (11)^2, \ 2T_1, \ 4T_2^{+*}, \ 8T_2^{+*} \\ (11)^2, \ 2T_1, \ 4T_2^{+*}, \ 8T_6^* \\ \end{array}$	$16T_{256}^*$ 128	$[16, 4, 2, 1^{13}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_2^{+*}$ , $8T_6^*$	$ \begin{array}{c cccc} 16T^*_{658} & 256 \\ 16T^{+*}_{677} & 256 \end{array} $	$[16, 4^2, 1^{13}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_2^{+*}$ , $8T_6^*$	$16T_{677}^{+*}$ 256	$[16, 4^2, 1^{13}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_2^{+*}$ , $8T_6^*$	$16T_{690}^{*}$ 256	$[16, 4^2, 1^{13}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_2^{+*}$ , $8T_6^*$	$16T_{693}^{*}$ 256	$[16, 4^2, 1^{13}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_2^{+*}$ , $8T_6^*$	$16T_{967}^*$ 512	$[16, 4^2, 2, 1^{12}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_2^{+*}$ , $8T_7^*$	$16T_{548}^{+*}$ 256	$[16, 4, 2^2, 1^{12}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_2^{+*}$ , $8T_7^*$	$16T_{605}^{+*}$ 256	$[16, 4, 2^2, 1^{12}]$
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$(1T_1)^2$ , $2T_1$ , $4T_2$ , $8T_7$ $(1T_1)^2$ , $2T_1$ , $4T_2^{+*}$ , $8T_7^*$	$16T_{605}^{+*}$ 256	$   \begin{bmatrix}     10, 4, 2, 1 \\     16, 4, 2^2, 1^{12}   \end{bmatrix} $
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$(1T_1)^2$ , $2T_1$ , $4T_2$ , $8T_7$ $(1T_1)^2$ , $2T_1$ , $4T_2^{+*}$ , $8T_7^*$	$16T_{619}^{+*}$ 256 $16T_{655}^{+*}$ 256	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
[0, 4, 2, 1]	$(111)$ , $211$ , $41_2$ , $01_7$		$   \begin{bmatrix}     16, 4, 2, 1 \\     16, 4, 2^3, 1^{11}   \end{bmatrix} $
$[8, 4, 2, 1^2]$	$(11_1)^2$ , $21_1$ , $41_2$ , $81_7$	$16T_{831}^{+*}$ 512	[10, 4, 2°, 1°]
$[8, 4, 2, 1^2]$	$\begin{array}{c} (1T_1)^2, \ 2T_1, \ 4T_2^-, \ 8T_7^- \\ (1T_1)^2, \ 2T_1, \ 4T_2^{+*}, \ 8T_8^* \\ (1T_1)^2, \ 2T_1, \ 4T_2^{+*}, \ 8T_8^* \\ (1T_1)^2, \ 2T_1, \ 4T_2^{+*}, \ 8T_8^* \end{array}$	$ \begin{array}{c cc} 16T_{668}^* & 256 \\ 16T_{669}^{+*} & 256 \end{array} $	$[16, 4^2, 1^{13}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_2^{-\pi}$ , $8T_8^{\pi}$	$16T_{669}^{+*}$ 256	$[16, 4^2, 1^{13}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_2^{++}$ , $8T_8^{++}$	$16T_{683}^*$ 256	$[16, 4^2, 1^{13}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_2^{+*}$ , $8T_8^*$	$16T_{706}^*$ 256	$[16, 4^2, 1^{13}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_2^{+*}$ , $8T_8^*$	$16T_{1005}^*$ 512	$[16, 4^2, 2, 1^{12}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_2^{+*}$ , $8T_{11}^{+*}$	$16T_{498}^*$ 256	$[16, 4, 2^2, 1^{12}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_2^{+*}$ , $8T_{11}^{+*}$	$16T_{499}^*$ 256	$[16, 4, 2^2, 1^{12}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_2^{+*}$ , $8T_{11}^{+*}$	$16T_{666}^*$ 256	$[16, 4, 2^2, 1^{12}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_2^{+*}$ , $8T_{11}^{+*}$ $(1T_1)^2$ , $2T_1$ , $4T_2^{+*}$ , $8T_{11}^{+*}$	$16T_{667}^*$ 256	$[16, 4, 2^2, 1^{12}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_2^{+*}$ , $8T_{11}^{+*}$	$16T_{931}^*$ 512	$[16, 4, 2^3, 1^{11}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_2^{+*}$ , $8T_{11}^{+*}$ $(1T_1)^2$ , $2T_1$ , $4T_2^{+*}$ , $8T_{15}^{**}$	$16T_{814}^{*}$ 512	$[16, 8, 2^2, 1^{12}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_2^{+*}$ , $8T_{15}^{**}$ $(1T_1)^2$ , $2T_1$ , $4T_2^{+*}$ , $8T_{15}^{**}$	$16T_{816}^{*}$ 512	$[16, 8, 2^2, 1^{12}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_2^{+*}$ , $8T_1^*$	$16T_{851}^{+*}$ 512	$[16, 8, 2^2, 1^{12}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_2^{+*}$ , $8T_{15}^*$	$16T_{866}^{+*}$ 512	$[16, 8, 2^2, 1^{12}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_2^{+*}$ , $8T_{15}^*$	$16T_{870}^{+*}$ 512	
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_2^*$ , $8T_{15}^*$	$16T_{882}^{+*}$ 512	$[16, 8, 2^2, 1^{12}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_2^+$ , $8T_{15}^*$	$16T_{892}^{*}$ 512	$[16, 8, 2^2, 1^{12}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_2^{+*}$ , $8T_{15}^{*}$	000	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_2^{+*}$ , $8T_{15}^*$	$16T_{942}^{*}$ 512	
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_2^{+*}$ , $8T_{15}^{*}$	$16T_{943}^*$ 512	$[16, 8, 2^2, 1^{12}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_2^{+*}$ , $8T_{15}^*$	$16T_{959}^{*}$ 512	$[16, 8, 4, 1^{13}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_2^{+*}$ , $8T_{15}^*$	$16T_{980}^{+*}$ 512	$[16, 8, 2^2, 1^{12}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_2^{+*}$ , $8T_{15}^*$	$16T_{987}^{+*}$ 512	$[16, 8, 2^2, 1^{12}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_2^{+*}$ , $8T_{15}^*$	$16T_{994}^*$ 512	$[16, 8, 4, 1^{13}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_2^{+*}$ , $8T_{15}^*$	$16T_{1003}^{*}$ 512	$[16, 8, 4, 1^{13}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_2^{+*}$ , $8T_{15}^*$	$16T_{1006}^{*}$ 512	$[16, 8, 2^2, 1^{12}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_2^{+*}$ , $8T_{15}^*$	$16T_{1022}^{*}$ 512	$[16, 8, 4, 1^{13}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_2^{+*}$ , $8T_{15}^{*}$	$16T_{1137}^*$ 1024	$[16, 8, 2^3, 1^{11}]$
G: Possi			coups of factors, $\mathcal{L}(G)$ : Initial Degrees
⇒			

Splitting table of degree 16

D(G)	S(G)	G   G	$\mathcal{L}(G)$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_2^{+*}$ , $8T_{15}^*$	$16T_{1149}^*$ $1024$	$[16, 8, 2^3, 1^{11}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_2^+$ , $8T_{15}^*$	$16T_{1149}^{*}   1024$	$[16, 8, 2^3, 1^{11}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $1T_2$ , $8T_{15}$ $(1T_1)^2$ , $2T_1$ , $4T_2^{+*}$ , $8T_{15}^*$	$16T_{1160}^{*}$ $1024$	$[16, 8, 2^3, 1^{11}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ $2T_1$ $4T_2^{+*}$ $8T_2^*$	$16T_{1173}^{*}$ $1024$	$[16, 8, 2^3, 1^{11}]$
$\frac{[8, 4, 2, 1^2]}{[8, 4, 2, 1^2]}$	$(1T_1)^2$ , $2T_1$ , $4T_2^{+*}$ , $8T_{15}^*$ $(1T_1)^2$ , $2T_1$ , $4T_2^{+*}$ , $8T_{15}^*$	$16T_{1179}^{+*}   1024$	$[16, 8, 2^3, 1^{11}]$
	$(1T_1)^2$ , $2T_1$ , $1T_2$ , $8T_{15}$	$16T_{1181}^{*}$ $1024$	$[16, 8, 2^3, 1^{11}]$
$\frac{[8, 4, 2, 1^2]}{[8, 4, 2, 1^2]}$	$(1T_1)^2$ , $2T_1$ , $4T_2^{+*}$ , $8T_{15}^*$	$16T_{1193}^{*}$ $1024$	$[16, 8, 2^3, 1^{11}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_2^{+*}$ , $8T_{15}^*$	$16T_{1348}^*$ 2048	$[16, 8, 2^4, 1^{10}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_4^{+*}$	$16T_{341}^{+*}$ 128	$[16, 4, 2, 1^{13}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_4^{+*}$	$16T_{365}^{+*}$ 128	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_6^*$	$16T_{662}^{+*}$ 256	$[16, 4, 2^2, 1^{12}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_6^*$	$16T_{***}^*$ 256	$   \begin{bmatrix}     16, 4, 2, 1 \\     \hline     16, 4, 2^2, 1^{12}   \end{bmatrix} $
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_8^*$	$16T_{672}^{+*}$ 256	$   \begin{bmatrix}     16, 4, 2^2, 1^{12}   \end{bmatrix} $
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_8^*$	$16T_{681}^*$ 256	$   \begin{bmatrix}     16, 4, 2^2, 1^{12}   \end{bmatrix}   $
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_9^{+*}$	$16T_{477}^{+*}$ 256	$   \begin{bmatrix}     16, 4, 2^2, 1^{12}   \end{bmatrix} $
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_9^{+*}$	$16T_{699}^{+*}$ 256	$   \begin{bmatrix}     16, 4, 2^2, 1^{12}   \end{bmatrix} $
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_9^{+*}$	$16T_{1014}^{*}$ 512	$[16, 4, 2^3, 1^{11}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{10}^{+*}$	$\begin{array}{c cccc} 16T_{680}^{+*} & 256 \\ 16T_{672}^{+*} & 256 \\ \hline 16T_{681}^{+*} & 256 \\ \hline 16T_{477}^{+*} & 256 \\ \hline 16T_{699}^{+*} & 256 \\ \hline 16T_{1014}^{+*} & 512 \\ \hline 16T_{482}^{+*} & 256 \\ \hline \end{array}$	$[16, 4, 2^2, 1^{12}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{10}^{+*}$	$16T_{702}^{+*}$ 256	$[16, 4, 2^2, 1^{12}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{11}^{+*}$	$16T_{1009}^{+*}$ 512	$[16, 4, 2^3, 1^{11}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{15}^*$	$16T_{880}^{+*}$ 512	$[16, 8, 2^2, 1^{12}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{15}^*$	$16T_{906}^{+*}$ 512	$[16, 8, 2^2, 1^{12}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{15}^*$	$16T_{937}^{*}$ 512	$[16, 8, 2^2, 1^{12}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{15}^*$	$16T_{045}^{+*}$ 512	$[16, 8, 2^2, 1^{12}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{15}^*$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$[16, 8, 2^2, 1^{12}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{15}^*$	$16T_{1109}^{*}$ 1024	$[16, 8, 2^3, 1^{11}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{15}^*$	$16T_{1113}^{*}$ 1024	$[16, 8, 2^3, 1^{11}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{15}^*$	$16T_{1127}^{+*}$ 1024	$[16, 8, 2^3, 1^{11}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{15}^*$	$16T_{1170}^*$ 1024	$[16, 4^2, 2^2, 1^{11}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{15}^*$	$16T_{1458}^{*}$ 2048	$[16, 8, 2^4, 1^{10}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{16}^*$	$16T_{823}^{+*}$ 512	$[16, 4^2, 2, 1^{12}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{16}^*$	$16T_{857}^{+*}$ 512	$[16, 4^2, 2, 1^{12}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{16}^*$	$16T_{875}^{+*}$ 512	$[16, 4^2, 2, 1^{12}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{16}^*$	$16T_{895}^{+*}$ 512	$[16, 4^2, 2, 1^{12}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{16}^*$	$16T_{918}^{+*}$ 512	$[16, 4^2, 2, 1^{12}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{16}^*$	$16T_{1097}^{+*}$ 1024	$[16, 8, 2^3, 1^{11}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{16}^*$	$16T_{1101}^{+*}$ 1024	$[16, 8, 2^3, 1^{11}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{16}^*$	$16T^*_{1255}$ 1024	$[16, 8, 2^3, 1^{11}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{16}^*$	$16T^*_{1279}$ 1024	$[16, 8, 2^3, 1^{11}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{16}^*$	$16T^*_{1377}$ 2048	$[16, 4^2, 2^3, 1^{10}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{16}^*$	$16T_{1389}^{+*}$ 2048	$[16, 4^2, 2^3, 1^{10}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{17}^*$	$16T_{871}^{+*}$ 512	$[16, 4^2, 2, 1^{12}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{17}^*$	$16T_{899}^{+*}$ 512	$[16, 4^2, 2, 1^{12}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{17}^*$	$16T_{936}^*$ 512	$[16, 4^2, 2, 1^{12}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{17}^*$	$16T_{947}^*$ 512	$[16, 4^2, 2, 1^{12}]$
G: Poss	ible Galois Groups, $D(G)$ : Degrees $G$	of factors, $S(G)$ : Galois Gr	oups of factors, $\mathcal{L}(G)$ : Initial Degrees

Splitting table of degree 16

D(G)	S(G)	$G \qquad  G $	$\mathcal{L}(G)$		
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{17}^*$	$16T_{957}^*$ 512	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{17}^*$	$16T_{974}^{+*}$ 512	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{17}^*$	$16T_{975}^{*}$ 512	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{17}^*$	$16T_{989}^*$ 512	$[16, 4^2, 2, 1^{12}]$		
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{17}^*$	$16T_{998}^{+*}$ 512	$[16, 4^2, 2, 1^{12}]$		
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{17}^*$	$16T_{1011}^{*}$ 512	$[16, 4^2, 2, 1^{12}]$		
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{17}^*$	$16T_{1108}^*$ 1024	$[16, 4^2, 2^2, 1^{11}]$		
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{17}^*$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$[16, 4^2, 2^2, 1^{11}]$		
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{17}^*$	$16T_{1128}^{+*}$ 1024	$[16, 4^2, 2^2, 1^{11}]$		
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{17}^*$	$16T_{1225}^{x}$ 1024	$[16, 4^2, 2^2, 1^{11}]$		
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{17}^*$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$[16, 4^3, 2, 1^{11}]$		
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{18}^{+*}$	$16T_{830}^{+*}$ 512	$[16, 4^2, 2, 1^{12}]$		
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{18}^{+*}$	$16T_{843}^{+*}$ 512	$[16, 4^2, 2, 1^{12}]$		
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{18}^{+*}$	$16T_{897}^{+*}$ 512	$[16, 4^2, 2, 1^{12}]$		
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{18}^{+*}$	$16T_{960}^{+*}$ 512	$[16, 4^2, 2, 1^{12}]$		
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{18}^{+*}$	$16T_{965}^{+*}$ 512	$[16, 4^2, 2, 1^{12}]$		
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{18}^{+*}$	$16T_{1107}^{+*}$ 1024	$[16, 4^2, 2^2, 1^{11}]$		
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_2^*$ , $8T_{12}^{+*}$	$16T_{1110}^{+*}$ 1024	$[16, 4^2, 2^2, 1^{11}]$		
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{18}^{+*}$	$16T_{1131}^{+*}$ 1024	$[16, 4^2, 2^2, 1^{11}]$		
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{18}^{+*}$	$16T_{1214}^{+*}$ 1024	$[16, 4^2, 2^2, 1^{11}]$		
$[8, 4, 2, 1^2]$	$\begin{array}{c} (1T_1)^2, \ 2T_1, \ 4T_3^*, \ 8T_{18}^{+*} \\ (1T_1)^2, \ 2T_1, \ 4T_3^*, \ 8T_{18}^{+*} \\ (1T_1)^2, \ 2T_1, \ 4T_3^*, \ 8T_{18}^{+*} \\ \end{array}$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$[16, 4^3, 2, 1^{11}]$		
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{19}^{**}$	$167_{867}^{+x}$ 512	$[16, 8, 2^2, 1^{12}]$		
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{19}^{+*}$	$16T_{914}^{+*}$ 512	$[16, 8, 2^2, 1^{12}]$		
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{19}^{+*}$	$16T_{933}^{+*}$ 512	$[16, 8, 2^2, 1^{12}]$		
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{19}^{+*}$	$16T_{954}^{+*}$ 512	$[16, 8, 2^2, 1^{12}]$		
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{19}^{+*}$	$16T_{955}^{+*}$ 512	$[16, 8, 2^2, 1^{12}]$		
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{19}^{+*}$	$16T_{971}^{+*}$ 512	$[16, 8, 2^2, 1^{12}]$		
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{19}^{+*}$	$16T_{983}^{+*}$ 512	$[16, 8, 2^2, 1^{12}]$		
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{19}^{+*}$	$16T_{995}^{+*}$ 512	$[16, 8, 2^2, 1^{12}]$		
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{19}^{+*}$	$16T_{1016}^{+*}$ 512	$[16, 8, 2^2, 1^{12}]$		
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{19}^{+*}$	$16T_{1017}^{+*}$ 512	$[16, 8, 2^2, 1^{12}]$		
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{19}^{+*}$	16T <sub>1126</sub> <sup>+*</sup> 1024	$[16, 8, 2^3, 1^{11}]$		
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{19}^{+*}$	16T <sub>1135</sub> 1024	$[16, 8, 2^3, 1^{11}]$		
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{19}^{+*}$	$16T_{1176}^{+*}$ $1024$	$[16, 8, 2^3, 1^{11}]$		
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3$ , $8T_{19}$	$16T_{1213}^{+*}$ $1024$	$[16, 4^2, 2^2, 1^{11}]$		
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{19}^{+*}$	$16T_{1456}^{+*}$ 2048	$[16, 8, 2^4, 1^{10}]$		
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{20}^{+*}$	$16T_{824}^{+*}$ 512	$[16, 4^2, 2, 1^{12}]$		
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{20}^{+*}$	$16T_{842}^{+*}$ 512	$[16, 4^2, 2, 1^{12}]$		
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{20}^{+*}$	$16T_{872}^{+*}$ 512	$[16, 4^2, 2, 1^{12}]$		
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{20}^{+*}$	$16T_{874}^{+*}$ 512	$\begin{bmatrix} [16, 4^2, 2, 1^{12}] \\ [16, 4^2, 2, 1^{12}] \end{bmatrix}$		
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{20}^{+*}$	$16T_{930}^{+*}$ 512	$[16, 4^2, 2, 1^{12}]$		
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{20}^{+*}$	$16T_{1088}^{+*}$ $1024$	$[16, 8, 2^3, 1^{11}]$		
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{20}^{+*}$	$16T_{1103}^{+*}$ $1024$	$\begin{bmatrix} 16, 8, 2^3, 1^{11} \end{bmatrix}$		
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{20}^{+*}$	$16T^*_{1283}$ $1024$	$\begin{bmatrix} [16, 8, 2^3, 1^{11}] \\ [16, 8, 2^3, 1^{11}] \end{bmatrix}$		
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{20}^{+*}$	$16T_{1284}^*$ 1024	[16, 8, 2 <sup>3</sup> , 1 <sup>11</sup> ]		
G: Poss	$G$ : Possible Galois Groups, $D(G)$ : Degrees of factors, $S(G)$ : Galois Groups of factors, $\mathcal{L}(G)$ : Initial Degrees				

Splitting table of degree 16

D(0)			(A)
D(G)	S(G)	$G \qquad  G $	$\mathcal{L}(G)$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{20}^{+*}$	$16T_{1393}^*$ 2048	$[16, 4^2, 2^3, 1^{10}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{20}^{+*}$	$16T_{1403}^{+*}$ 2048	$[16, 4^2, 2^3, 1^{10}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{21}^*$	$16T_{1355}^{+*}$ 2048	$[16, 4^2, 2^3, 1^{10}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{21}^*$	$16T_{1386}^*$ 2048	$[16, 4^2, 2^3, 1^{10}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{21}^*$	$16T_{1449}^*$ 2048	$[16, 4, 2^5, 1^9]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{21}^*$	$16T_{1485}^{+*}$ 2048	$[16, 4, 2^5, 1^9]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{22}^{+*}$	$16T_{1139}^*$ 1024	$[16, 8, 2^3, 1^{11}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{22}^{+*}$	$16T_{1154}^*$ 1024	$[16, 8, 2^3, 1^{11}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{22}^{+*}$	$16T_{1172}^{+*}$ 1024	$[16, 8, 2^3, 1^{11}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{22}^{+*}$	$16T_{1215}^{+*}$ 1024	$[16, 8, 2^3, 1^{11}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{22}^{+*}$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$[16, 8, 2^3, 1^{11}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{22}^{+*}$	$16T_{1273}^{+*}$ 1024	$[16, 8, 2^3, 1^{11}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{22}^{+*}$	$16T_{1282}^{+*}$ 1024	$[16, 8, 2^3, 1^{11}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{22}^{+*}$	$16T_{1285}^*$ 1024	$[16, 8, 2^3, 1^{11}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{22}^{+*}$	$16T_{1367}^{*}$ 2048	$[16, 4^2, 2^3, 1^{10}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{22}^{+*}$	$16T_{1412}^{+*}$ 2048	$[16, 4^2, 2^3, 1^{10}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{26}^*$	$16T_{1189}^{+*}$ 1024	[16, 8, 4, 2, 1 <sup>12</sup> ]
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{26}^*$	$16T_{1191}^{+*}$ 1024	$[16, 8, 4, 2, 1^{12}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{26}^*$	$16T_{1195}^{+*}$ 1024	$[16, 8, 4, 2, 1^{12}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{26}^*$	$16T_{1226}^{+*}$ 1024	$[16, 8, 4, 2, 1^{12}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{26}^*$	$16T_{1259}^{*}$ $1024$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{26}^*$	$16T_{1261}^*$ $1024$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{26}^*$	$16T_{1262}^*$ $1024$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{26}^*$	$16T_{1280}^*$ $1024$	$[16, 8, 4, 2, 1^{12}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{26}^*$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$[16, 8, 4, 2^2, 1^{11}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{26}^*$	$16T_{1350}^*$ 2048	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{26}^*$	$16T_{1366}^*$ 2048	$[16, 8, 4, 2^2, 1^{11}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{26}^*$	$16T_{1382}^{+*}$ 2048	$[16, 8, 4, 2^2, 1^{11}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{26}^*$	$16T_{1387}^*$ 2048	$[16, 8, 4, 2^2, 1^{11}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{26}^*$	$16T_{1397}^*$ 2048	$[16, 8, 4, 2^2, 1^{11}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{26}^*$	$16T_{1408}^{+*}$ 2048	$[16, 8, 2^4, 1^{10}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{26}^*$	$16T_{1409}^{*}$ 2048	$[16, 8, 4, 2^2, 1^{11}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{26}^*$	$16T_{1430}^*$ 2048	$[16, 8, 2^4, 1^{10}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{26}^*$	$16T_{1433}^*$ 2048	$[16, 8, 4, 2^2, 1^{11}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{26}^*$	$16T_{1434}^*$ 2048	$[16, 8, 4, 2^2, 1^{11}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{26}^*$	$16T_{1440}^*$ 2048	$[16, 8, 4, 2^2, 1^{11}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{26}^*$	$16T_{1441}^{*}$ 2048	$[16, 8, 4, 2^2, 1^{11}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{26}^*$	$16T_{1442}^{*}$ 2048	$[16, 8, 2^4, 1^{10}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{26}^*$	$16T_{1444}^*$ 2048	$[16, 8, 2^4, 1^{10}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{26}^*$	$16T_{1446}^*$ 2048	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{26}^*$	$16T_{1447}^*$ 2048	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{26}^*$	$16T_{1448}^*$ 2048	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{26}^*$	$16T_{1450}^{*}$ 2048	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{26}^*$	$16T_{1455}^{+*}$ 2048	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{26}^*$	$16T_{1466}^{*}$ 2048	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
	. , , ,	1100	ups of factors, $\mathcal{L}(G)$ : Initial Degrees
3. 1 033.			-p 1300010, ~(0). Initial Degrees

Splitting table of degree 16

D(G)	S(G)	G $G$	$\mathcal{L}(G)$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{26}^*$	$16T_{1471}^{+*}$ 2048	$[16, 8, 4, 2^2, 1^{11}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{26}^*$	$16T_{1480}^*$ 2048	$[16, 8, 4, 2^2, 1^{11}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{26}^*$	$16T_{1488}^{+*}$ 2048	$[16, 8, 4, 2^2, 1^{11}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{26}^*$	$16T^*_{1558}$ 4096	$[16, 8, 4, 2^3, 1^{10}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{26}^*$	16T <sub>1561</sub> 4096	$[16, 8, 4^2, 2, 1^{11}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{26}^*$	16T <sub>1563</sub> <sup>+*</sup> 4096	$[16, 4^2, 2^4, 1^9]$
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{26}^*$	16T* 4096	$   \begin{bmatrix}     [16, 8, 4^2, 2, 1^{11}] \\     [16, 8, 4, 2^3, 1^{10}]   \end{bmatrix} $
$[8, 4, 2, 1]$ $[8, 4, 2, 1^2]$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$16T_{1569}^{*}$ $4096$ $16T_{1571}^{*}$ $4096$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
[8, 4, 2, 1]	$(1T_1)^2$ , $2T_1$ , $4T_3$ , $8T_{26}^*$ $(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{26}^*$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{26}^*$	$16T_{1597}^{*}$ 4096	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{26}^*$	$16T_{1605}^{+*}$ 4096	$[16, 8, 4, 2^{3}, 1^{10}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{26}^*$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$[16, 4^2, 2^4, 1^9]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{26}^*$	$16T_{1622}^*$ 4096	$[16, 4^2, 2^4, 1^9]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{26}^*$	$167_{1628}^{*}$ 4096	$[16, 4^2, 2^4, 1^9]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{26}^*$	$16T^*_{1636}$ 4096	$[16, 8, 4, 2^3, 1^{10}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{26}^*$	$16T_{1640}^*$ 4096	$[16, 8, 4, 2^3, 1^{10}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{26}^*$	$16T_{1642}^*$ 4096	$[16, 8, 4^2, 2, 1^{11}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{26}^*$	16T <sub>1647</sub> 4096	$[16, 8, 4^2, 2, 1^{11}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{26}^*$	16T <sub>1708</sub> 8192	$[16, 8, 4^2, 2^2, 1^{10}]$
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{26}^*$ $(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{27}^*$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$(1T_1)^{2}, 2T_1, 4T_3, 8T_{27}^{*}$ $(1T_1)^{2}, 2T_1, 4T_3^{*}, 8T_{27}^{*}$	$ \begin{array}{c ccccc} 16T_{1568}^* & 4096 \\ 16T_{1587}^{+*} & 4096 \end{array} $	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$(1T_1)^2$ , $2T_1$ , $4T_3$ , $8T_{27}^*$ $(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{27}^*$	$16T_{1587}^*$ $4096$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{27}^*$	$16T_{1599}^{*}$ $4096$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{27}^*$	$16T_{1717}^{*}$ 8192	$[16, 4^2, 2^5, 1^8]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{28}^*$	$16T_{1554}^{*}$ 4096	$[16, 8, 4, 2^3, 1^{10}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{28}^*$	$16T_{1575}^*$ 4096	$[16, 8, 4, 2^3, 1^{10}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{28}^*$	$16T_{1578}^{+*}$ 4096	$[16, 4^2, 2^4, 1^9]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{28}^*$	$16T_{1579}^{+*}$ 4096	$[16, 4^2, 2^4, 1^9]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{28}^*$	$16T_{1601}^*$ 4096	$[16, 8, 4, 2^3, 1^{10}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{28}^*$	16T <sub>1611</sub> 4096	$[16, 8, 4, 2^3, 1^{10}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{28}^*$	16T <sub>1612</sub> <sup>+*</sup> 4096	$[16, 4^2, 2^4, 1^9]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{28}^*$ $(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{28}^*$	$16T_{1627}^{+*}$ 4096	$   \begin{bmatrix}     [16, 4^2, 2^4, 1^9] \\     [16, 4^3, 2^3, 1^9]   \end{bmatrix} $
$   \begin{bmatrix}     8, 4, 2, 1^2 \\     \hline     [8, 4, 2, 1^2]   \end{bmatrix} $	$(1T_1)^2$ , $2T_1$ , $4T_3$ , $8T_{28}$ $(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{28}^*$	$16T_{1699}^{+*}$ 8192 $16T_{1702}^{*}$ 8192	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
[8, 4, 2, 1]	$(1T_1)^{2}, 2T_1, 4T_3, 8T_{28}^{+*}$ $(1T_1)^{2}, 2T_1, 4T_3^{*}, 8T_{29}^{+*}$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[8, 4, 2, 1^2]$	$(1T_1)^{7}, 2T_1, 4T_3, 8T_{29}^{+*}$ $(1T_1)^{2}, 2T_1, 4T_3^{*}, 8T_{29}^{+*}$	$16T_{1124}^{+*}$ $1024$ $16T_{1129}^{+*}$ $1024$	[16, 8, 4, 2, 1]
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{29}^{+*}$	$16T_{1169}^{+*}$ $1024$	[16, 8, 4, 2, 1 <sup>12</sup> ]
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{29}^{+*}$	$16T_{1180}^{++}$ $1024$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{29}^{+*}$	$16T_{1256}^{+*}$ 1024	$[16, 8, 2^3, 1^{11}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{29}^{+*}$	$16T_{1270}^{+*}$ 1024	$[16, 8, 2^3, 1^{11}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{29}^{+*}$	$16T_{1275}^{+*}$ 1024	$[16, 8, 2^3, 1^{11}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{29}^{+*}$	$16T_{1276}^{+*}$ 1024	$[16, 8, 2^3, 1^{11}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{29}^{+*}$	$16T_{1338}^{+*}$ 2048	$[16, 8, 4, 2^2, 1^{11}]$
G: Possi	ible Galois Groups, $\overline{D(G)}$ : Degrees $\overline{G}$	of factors, $S(G)$ : Galois Gro	ups of factors, $\mathcal{L}(G)$ : Initial Degrees

Splitting table of degree 16

D(C)	C(C)		C(C)
D(G)	S(G)	$G \qquad  G $	$\mathcal{L}(G)$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{29}^{+*}$	16T <sub>1344</sub> 2048	$[16, 8, 4, 2^2, 1^{11}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{29}^{+*}$	$16T_{1347}^{+*}$ 2048	$[16, 8, 2^4, 1^{10}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{29}^{+*}$	$16T_{1357}^{+*}$ 2048	$[16, 8, 4, 2^2, 1^{11}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{29}^{+*}$	$16T_{1363}^{+*}$ 2048	$[16, 8, 4, 2^2, 1^{11}]$
$[8, 4, 2, 1^2]$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$[16, 8, 2^4, 1^{10}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{29}^{+*}$	$16T_{1413}^{+*}$ 2048	$[16, 8, 4, 2^2, 1^{11}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{29}^{+*}$	101 <sub>1417</sub> 2048	$[16, 8, 4, 2^2, 1^{11}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{29}^{+*}$	$16T_{1421}^{+*}$ 2048	$[16, 8, 4, 2^2, 1^{11}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{29}^{+*}$	$16T_{1423}^{+*}$ 2048	$[16, 8, 4, 2^2, 1^{11}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{29}^{+*}$	$16T_{1426}^{+*}$ 2048	$[16, 8, 4, 2^2, 1^{11}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{29}^{+*}$	$16T_{1451}^{*}$ 2048	$[16, 8, 4, 2^2, 1^{11}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{29}^{+*}$	$16T_{1454}^*$ 2048	$[16, 8, 4, 2^2, 1^{11}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{29}^{+*}$	$16T^*_{1459}$ 2048	$[16, 8, 4, 2^2, 1^{11}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{29}^{+*}$	$\begin{array}{c cccc} 16T^*_{1459} & 2048 \\ 16T^*_{1460} & 2048 \end{array}$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ $2T_1$ $4T_2^*$ $8T_2^{+*}$	$16T_{1464}^*$ 2048	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[8, 4, 2, 1^2]$	$(17,)^2$ 2T, $AT^*$ 8 $T^{+*}$	$16T_{1464}^{+*}$ 2048	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{c} (11), 21, 13, 81_{29} \\ (1T_1)^2, 2T_1, 4T_3^*, 8T_{29}^{+*} \\ (1T_1)^2, 2T_1, 4T_3^*, 8T_{29}^{+*} \\ (1T_1)^2, 2T_1, 4T_3^*, 8T_{29}^{+*} \\ \end{array}$	$ \begin{array}{rrr} 16T_{1464}^{**} & 2048 \\ 16T_{1467}^{+*} & 2048 \\ 16T_{1473}^{+*} & 2048 \end{array} $	$[16, 8, 2^4, 1^{10}]$
	$(111)$ , $211$ , $413$ , $01_{29}$	101 <sub>1473</sub> 2040	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{29}^{+*}$	16T* 2048	[10, 0, 4, 2 , 1 ]
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{29}^{+*}$	16T <sub>1475</sub> 2048	$[16, 8, 2^4, 1^{10}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{29}^{+*}$	16T <sub>1476</sub> 2048	$[16, 8, 4, 2^2, 1^{11}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{29}^{+*}$	16T <sub>1478</sub> <sup>+*</sup> 2048	$[16, 8, 2^4, 1^{10}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{29}^{+*}$	$16T_{1482}^*$ 2048	$[16, 8, 4, 2^2, 1^{11}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{29}^{+*}$	$16T_{1483}^*$ 2048	$[16, 8, 4, 2^2, 1^{11}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{29}^{+*}$	$16T_{1553}^{+*}$ 4096	$[16, 8, 4^2, 2, 1^{11}]$
$[8, 4, 2, 1^2]$	$\begin{array}{c} (17)^2, \ 2T_1, \ 4T_3^*, \ 8T_{29}^{+*} \\ (1T_1)^2, \ 2T_1, \ 4T_3^*, \ 8T_{29}^{+*} \\ (1T_1)^2, \ 2T_1, \ 4T_3^*, \ 8T_{29}^{+*} \\ (1T_1)^2, \ 2T_1, \ 4T_3^*, \ 8T_{29}^{+*} \end{array}$	$   \begin{array}{ccccccccccccccccccccccccccccccccccc$	$[16, 8, 4, 2^3, 1^{10}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{29}^{+*}$	$16T_{1559}^{+*}$ 4096	$[16, 8, 4^2, 2, 1^{11}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{29}^{+*}$	$16T_{1565}^{+*}$ 4096	$[16, 8, 4, 2^3, 1^{10}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{29}^{+*}$	$16T_{1572}^{-}$ 4096	$[16, 4^2, 2^4, 1^9]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{29}^{+*}$	$16T_{1589}^{+*}$ 4096	$[16, 8, 4, 2^3, 1^{10}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{29}^{+*}$	$16T_{1593}^{+*}$ 4096	$[16, 8, 4, 2^3, 1^{10}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{29}^{+*}$	$16T_{1603}^*$ 4096	$[16, 4^2, 2^4, 1^9]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{29}^{+*}$	$16T_{1613}^{+*}$ 4096	$[16, 8, 4, 2^3, 1^{10}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{29}^{+*}$	$16T_{1623}^*$ 4096	$[16, 4^2, 2^4, 1^9]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{29}^{+*}$	$16T_{1624}^{+*}$ 4096	$[16, 8, 4, 2^3, 1^{10}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{29}^{+*}$	$16T_{1629}^*$ 4096	$[16, 4^2, 2^4, 1^9]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{29}^{+*}$	$16T_{1637}^{*}$ 4096	$[16, 8, 4^2, 2, 1^{11}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{29}^{+*}$	$16T_{1641}^*$ 4096	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{29}^{+*}$	$16T_{1644}^*$ 4096	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
[8, 4, 2, 1]	$(1T_1)^2$ , $2T_1$ , $4T_3$ , $8T_{29}^{+*}$		$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
	$(1T_1)^{2}, 2T_1, 4T_3, 8T_{29}^{+*}$ $(1T_1)^{2}, 2T_1, 4T_3^{*}, 8T_{29}^{+*}$	1040	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
		1100	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{29}^{+*}$	16T <sub>1728</sub> 8192	
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{30}^*$	16T <sub>1570</sub> 4096	$[16, 4^2, 2^4, 1^9]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{30}^*$	16T <sub>1592</sub> <sup>+*</sup> 4096	$[16, 4^2, 2^4, 1^9]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{30}^*$	16T <sub>1607</sub> 4096	$[16, 8, 4, 2^3, 1^{10}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{30}^*$	$16T_{1615}^*$ 4096	$[16, 8, 4, 2^3, 1^{10}]$
G: Poss	ible Galois Groups, $D(G)$ : Degrees $G$	of factors, $S(G)$ : Galois Grou	ups of factors, $\mathcal{L}(G)$ : Initial Degrees

Splitting table of degree 16

D(G)	S(G)	$G \qquad  G $	$\mathcal{L}(G)$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{30}^*$	$16T_{1618}^{*}$ 4096	$[16, 4^2, 2^4, 1^9]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{30}^*$	$16T_{1631}^*$ 4096	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{30}^*$	$16T_{1633}^{+*}$ 4096	$[16, 8, 4, 2^3, 1^{10}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{30}^*$	$16T_{1634}^{*}$ 4096	$[16, 8, 4, 2^3, 1^{10}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{30}^*$	$16T_{1709}^{*}$ 8192	$[16, 4^3, 2^3, 1^9]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{30}^*$	$16T_{1712}^{*}$ 8192	$[16, 8, 4^2, 2^2, 1^{10}]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{31}^*$	$16T_{1600}^*$ 4096	$[16, 8, 2^5, 1^9]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{31}^*$	$16T_{1619}^{+*}$ 4096	$[16, 8, 2^5, 1^9]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{31}^*$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$[16, 8, 2^5, 1^9]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{31}^*$	$16T_{1625}^*$ 4096	$[16, 8, 2^5, 1^9]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{31}^*$	$16T_{1639}^*$ 4096	$[16, 8, 2^5, 1^9]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{31}^*$	$16T_{1645}^*$ 4096	$[16, 8, 2^5, 1^9]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{31}^*$	$16T_{1707}^*$ 8192	$[16, 8, 2^6, 1^8]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{35}^*$	$16T_{1698}^{*}$ 8192	$[16, 8, 4, 2^4, 1^9]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{35}^*$	16T <sub>1701</sub> 8192	$[16, 8, 4, 2^4, 1^9]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{35}^*$	16T <sub>1704</sub> 8192	$[16, 8, 4, 2^4, 1^9]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{35}^*$	16T <sub>1706</sub> 8192	$[16, 8, 4, 2^4, 1^9]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{35}^*$	16T <sub>1710</sub> 8192	$[16, 8, 4, 2^4, 1^9]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{35}^*$	16T <sub>1713</sub> 8192	$[16, 8, 4, 2^4, 1^9]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{35}^*$	16T* 8192	$[16, 8, 4, 2^4, 1^9]$
$   \begin{bmatrix}     8, 4, 2, 1^2 \\     \hline     8, 4, 2, 1^2   \end{bmatrix} $	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{35}^*$	16T* 8192	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{35}^*$ $(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{35}^*$	$ \begin{array}{c cccc} 16T^*_{1718} & 8192 \\ \hline 16T^*_{1724} & 8192 \\ \end{array} $	$   \begin{bmatrix}     10, 8, 4, 2, 1^{4} \\     16, 8, 4, 2^{4}, 1^{9}   \end{bmatrix} $
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$(1T_1)^2$ , $2T_1$ , $4T_3$ , $8T_{35}$ $(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{35}^*$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$   \begin{bmatrix}     10, & 0, & 4, & 2 & , & 1 \\     16, & 8, & 4, & 2^4, & 1^9   \end{bmatrix} $
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{35}^*$	$16T_{1727}^{+*}$ 8192	$[16, 8, 4, 2^4, 1^9]$
[8, 4, 2, 1]	$(1T_1)^2$ , $2T_1$ , $4T_3$ , $8T_{35}^*$ $(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{35}^*$	$16T_{1727}^{+*}$ $8192$	$   \begin{bmatrix}     16, 8, 4, 2^4, 1^9   \end{bmatrix}   $
$     \begin{bmatrix}       8, 4, 2, 1^{2} \\       \hline       18, 4, 2, 1^{2}     \end{bmatrix}   $	$(1T_1)^2$ , $2T_1$ , $1T_3$ , $0T_{35}$ $(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{35}^*$	$16T_{1731}^{*}$ 8192	$[16, 8, 4, 2^4, 1^9]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{35}^*$	$16T_{1731}^*$ 8192	$[16, 8, 4, 2^4, 1^9]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{35}^*$	$16T_{1734}^{*}$ 8192	$[16, 8, 4, 2^4, 1^9]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{35}^*$	$16T_{1735}^{*}$ 8192	$[16, 8, 4, 2^4, 1^9]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{35}^*$	$16T_{1736}^{*}$ 8192	$[16, 8, 4, 2^4, 1^9]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{35}^*$	$16T_{1737}^{*}$ 8192	$[16, 8, 4, 2^4, 1^9]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{35}^*$	$16T_{1738}^{*}$ 8192	$[16, 8, 4, 2^4, 1^9]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{35}^*$	$16T_{1739}^{*}$ 8192	$[16, 8, 4, 2^4, 1^9]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{35}^*$	$16T_{1740}^{*}$ 8192	$[16, 8, 4, 2^4, 1^9]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{35}^*$	$16T_{1741}^*$ 8192	$[16, 8, 4, 2^4, 1^9]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{35}^*$	$16T_{1742}^{*}$ 8192	$[16, 8, 4, 2^4, 1^9]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{35}^*$	$16T^*_{1743}$ 8192	$[16, 8, 4, 2^4, 1^9]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{35}^*$	$16T_{1744}^{+*}$ 8192	$[16, 8, 4, 2^4, 1^9]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{35}^*$	$16T_{1745}^{*}$ 8192	$[16, 8, 4, 2^4, 1^9]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{35}^*$	$16T_{1746}^{+*}$ 8192	$[16, 8, 4, 2^4, 1^9]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{35}^*$	16T <sub>1770</sub> 16384	$[16, 8, 4^2, 2^3, 1^9]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{35}^*$	$16T_{1772}^{+*}$ $16384$	$[16, 8, 4^2, 2^3, 1^9]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{35}^*$	16T <sub>1773</sub> 16384	$[16, 8, 4^2, 2^3, 1^9]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{35}^*$	$16T_{1774}^*$ $16384$	$[16, 8, 4, 2^5, 1^8]$
G: Poss	ible Galois Groups, $D(G)$ : Degrees	of factors, $S(G)$ : Galois Grou	ps of factors, $\mathcal{L}(G)$ : Initial Degrees

Splitting table of degree 16

D ( 60)	I ((a)		4(0)
D(G)	S(G)	$G \qquad  G $	$\mathcal{L}(G)$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{35}^*$	$16T_{1775}^*$ $16384$	$[16, 8, 4, 2^5, 1^8]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{35}^*$	$16T_{1776}^*$ $16384$	$[16, 8, 4, 2^5, 1^8]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{35}^*$	$16T_{1777}^*$ 16384	$[16, 8, 4^2, 2^3, 1^9]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{35}^*$	$16T_{1778}^*$ 16384	$[16, 8, 4, 2^5, 1^8]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{35}^*$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$[16, 8, 4^2, 2^3, 1^9]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{35}^*$	$16T_{1780}^*$ $16384$	$[16, 8, 4^2, 2^3, 1^9]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{35}^*$	$16T_{1781}^*$ 16384	$[16, 8, 4^2, 2^3, 1^9]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{35}^*$	$16T_{1799}^*$ 16384	$[16, 8, 4^2, 2^3, 1^9]$
$[8, 4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_3^*$ , $8T_{35}^*$	$16T_{1823}^*$ 32768	$[16, 8, 4^2, 2^4, 1^8]$
$[6^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $6T_2^*$ , $6T_3^*$	$16T_{422}^{+*}$ 192	$[16, 6, 2, 1^{13}]$
$[6^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $6T_4^{+*}$ , $6T_6^*$	$16T_{716}^{+2}$ 384	$[16, 6, 2^2, 1^{12}]$
$[6^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $6T_1^{+*}$ , $6T_2^{*}$	$16T^{+*}$ 384	$[16, 6, 2^2, 1^{12}]$
$[6^2, 2, 1^2]$	$\begin{array}{c} (1T_1)^2,\ 2T_1,\ 6T_4^{+*},\ 6T_6^{*} \\ \end{array}$	$16T_{720}^{+*}$ 384	$     \begin{bmatrix}       16, 6, 2^2, 1^{12}     \end{bmatrix}   $
$[6^2, 2, 1^2]$	$(17,)^2$ 27, $6T^{+*}$ $6T^*$	$16T_{721}^{+*}$ 384	$[16, 6, 2^2, 1^{12}]$
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	(111), $211$ , $014$ , $016$	$16T_{726}^{+*}$ 384	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$(111)$ , $211$ , $01_4$ , $01_6$	$16T_{728}^{+*}$ $384$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$\begin{bmatrix} 0 & , & 2 & , & 1 & ] \\ \hline [62 & 2 & 12] & & & & 12 \end{bmatrix}$	(111), $211$ , $014$ , $016$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	[10, 0, 2, 1]
$[6^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $6T_4^{+*}$ , $6T_6^*$	101 <sub>733</sub> 384	$[16, 6, 2^2, 1^{12}]$
$[6^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $6T_4^{+*}$ , $6T_6^*$	16T <sup>+*</sup> <sub>738</sub> 384	$[16, 6, 2^2, 1^{12}]$
$[6^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $6T_4^{+*}$ , $6T_6^*$	101 <sub>751</sub> 384	$[16, 6, 2^2, 1^{12}]$
$[6^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $6T_4^{+*}$ , $6T_6^*$	$16T_{755}^{+*}$ 384	$[16, 6, 2^2, 1^{12}]$
$[6^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $6T_4^{+*}$ , $6T_6^*$	$16T_{767}^{+*}$ 384	$[16, 6, 2^2, 1^{12}]$
$[6^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $6T_4^{+*}$ , $6T_6^*$	$16T_{772}^{+*}$ 384	$[16, 6, 2^2, 1^{12}]$
$[6^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $6T_4^{+*}$ , $6T_6^*$	$16T_{1309}^{+*}$ 1536	$[16, 6, 2^4, 1^{10}]$
$[6^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $6T_4^{+*}$ , $6T_6^{*}$	$16T_{1327}^{+*}$ 1536	$[16, 6, 2^4, 1^{10}]$
$[6^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(6T_6^*)^2$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$[16, 6, 2^3, 1^{11}]$
$[6^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(6T_6^*)^2$	$16T_{1038}^{+*}$ 768	$[16, 6, 2^3, 1^{11}]$
$[6^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(6T_6^*)^2$	$16T_{1040}^{+*}$ 768	$[16, 6, 2^3, 1^{11}]$
$[6^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(6T_6^*)^2$	$16T_{1043}^{+*}$ 768	$[16, 6, 2^3, 1^{11}]$
$[6^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(6T_6^*)^2$	$16T_{1050}^{+*}$ 768	$[16, 6, 2^3, 1^{11}]$
$[6^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(6T_6^*)^2$	$16T_{1069}^*$ 768	
$[6^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(6T_6^*)^2$	$16T_{1509}^{+*}$ $3072$	$[16, 6, 2^5, 1^9]$
$[6^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(6T_6)^2$	$16T_{1509}^*$ $3072$	$[16, 6, 2^5, 1^9]$
$[6^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(6T_6)^2$		$   \begin{bmatrix}     16, 6, 2, 1 \\     \hline     16, 6, 2^5, 1^9   \end{bmatrix} $
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$(1T_1)^2$ , $2T_1$ , $(6T_6)^2$		$   \begin{bmatrix}     16, 6, 2, 1 \\     \hline     [16, 6, 2^5, 1^9]   \end{bmatrix} $
	(111), $211$ , $(016)$	1020	
$[6^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(6T_6^*)^2$	$16T_{1542}^{+*}$ 3072	$[16, 6, 2^5, 1^9]$
$[6^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(6T_6^*)^2$	16T <sub>1658</sub> 6144	$[16, 6, 2^6, 1^8]$
$[6^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(6T_6^*)^2$	16T <sub>1670</sub> 6144	$[16, 6, 2^6, 1^8]$
$[6^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(6T_6^*)^2$	$16T_{1676}^{*}$ 6144	$[16, 6, 2^6, 1^8]$
$[6^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $6T_7^{+*}$ , $6T_8^*$	$16T_{753}^{+*}$ 384	$[16, 6, 2^2, 1^{12}]$
$[6^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $6T_7^{+*}$ , $6T_8^*$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$[16, 6, 2^2, 1^{12}]$
$[6^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $6T_7^{+*}$ , $6T_8^*$	$16T_{756}$ 384	$[16, 6, 2^2, 1^{12}]$
$[6^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $6T_7^{+*}$ , $6T_8^*$	$16T_{757}^{+*}$ 384	$[16, 6, 2^2, 1^{12}]$
$[6^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $6T_7^{+*}$ , $6T_8^*$	$16T_{760}^{+*}$ 384	$[16, 6, 2^2, 1^{12}]$
$[6^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $6T_7^{+*}$ , $6T_8^*$	$16T_{762}^{+*}$ 384	$[16, 6, 2^2, 1^{12}]$
$[6^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $6T_7^{+*}$ , $6T_8^*$	$16T_{764}^{+*}$ 384	$[16, 6, 2^2, 1^{12}]$
$G$ : Possible Galois Groups, $D(G)$ : Degrees of factors, $S(G)$ : Galois Groups of factors, $\mathcal{L}(G)$ : Initial Degrees			

Splitting table of degree 16

D(C)			C(G)
D(G)	S(G)	$G \qquad  G $	$\mathcal{L}(G)$
$[6^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $6T_7^{+*}$ , $6T_8^*$	16T <sub>768</sub> 384	$[16, 6, 2^2, 1^{12}]$
$[6^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $6T_7^{+*}$ , $6T_{11}^*$	16T <sub>1047</sub> <sup>+*</sup> 768	$[16, 6, 4, 2, 1^{12}]$
$[6^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $6T_7^{+*}$ , $6T_{11}^*$	$16T_{1049}^{+*}$ 768	$[16, 6, 4, 2, 1^{12}]$
$[6^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $6T_7^{+*}$ , $6T_{11}^{*}$	$16T_{1051}^{+*}$ 768	$[16, 6, 4, 2, 1^{12}]$
$[6^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $6T_7^{+*}$ , $6T_{11}^{*}$ $(1T_1)^2$ , $2T_1$ , $6T_7^{+*}$ , $6T_{11}^{*}$	$16T_{1055}^{+*}$ 768	$[16, 6, 4, 2, 1^{12}]$
$[6^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $6T_7^{++}$ , $6T_{11}^{*+}$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$[16, 6, 4, 2^3, 1^{10}]$
$[6^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $6T_8^*$ , $6T_{11}^*$	161 <sub>1048</sub> 768	$[16, 6, 4, 2, 1^{12}]$
$[6^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $6T_8^*$ , $6T_{11}^*$	$16T_{1052}^{+*}$ 768	$[16, 6, 4, 2, 1^{12}]$
$[6^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $6T_8^*$ , $6T_{11}^*$	$16T_{1054}^{+*}$ 768	$[16, 6, 4, 2, 1^{12}]$
$[6^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $6T_8^*$ , $6T_{11}^*$	$16T_{1056}^{+*}$ 768	$[16, 6, 4, 2, 1^{12}]$
$[6^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $6T_8^*$ , $6T_{11}^*$	$16T_{1523}^{+*}$ 3072	$[16, 6, 4, 2^3, 1^{10}]$
$[6^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(6T_{11}^*)^2$	$16T_{1044}^{+*}$ 768	$[16, 6, 2^3, 1^{11}]$
$[6^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(6T_{11}^*)^2$	$16T_{1057}^{+*}$ 768	$[16, 6, 2^3, 1^{11}]$
$[6^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(6T_{11}^*)^2$	$16T_{1298}^{+*}$ 1536	$[16, 6, 4, 2^2, 1^{11}]$
$[6^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(6T_{11}^*)^2$	$16T_{1316}^{*}$ 1536	$[16, 6, 2^4, 1^{10}]$
$[6^2, 2, 1^2]$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$[16, 6, 4, 2^4, 1^9]$
$[6^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(6T_{11}^*)^2$	$16T_{1667}^*$ 6144	$[16, 6, 4, 2^4, 1^9]$
$[6^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(6T_{11}^*)^2$	$16T_{1675}^{*}$ 6144	$[16, 6, 4, 2^4, 1^9]$
$[6^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(6T_{11}^*)^2$	$16T_{1680}^{*}$ 6144	$[16, 6, 4, 2^4, 1^9]$
$[6^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(6T_{11}^*)^2$	$16T_{1759}^{*}$ 12288	$[16, 6, 4, 2^5, 1^8]$
$[12, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $12T_8^*$	$16T_{775}^{+*}$ 384	$[16, 12, 2, 1^{13}]$
$[12, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $12T_9^{+*}$	$16T_{773}^*$ 384	$[16, 6, 2^2, 1^{12}]$
$[12, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $12T_{21}^{+*}$	$16T_{1060}^*$ 768	$[16, 6, 2^3, 1^{11}]$
$[12, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $12T_{30}^*$	$16T_{1061}^{+*}$ 768	$[16, 6, 2^3, 1^{11}]$
$[12, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $12T_{50}^*$	$16T_{1210}^*$ 1536	$[16, 12, 2^3, 1^{11}]$
$[12, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $12T_{50}^*$	$16T_{1311}^{+*}$ 1536	$[16, 12, 2^3, 1^{11}]$
$[12, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $12T_{59}^*$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$[16, 12, 4, 2, 1^{12}]$
$[12, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $12T_{60}^{+*}$	$16T^*_{1302}$ 1536	$[16, 12, 4, 2, 1^{12}]$
$[12, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $12T_{61}^*$	$16T_{1303}^{+*}$ 1536	$[16, 12, 4, 2, 1^{12}]$
$[12, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $12T_{64}^*$	$16T_{1319}^{+*}$ 1536	$[16, 12, 4, 2, 1^{12}]$
$[12, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $12T_{65}^{+*}$	$16T_{1326}^*$ 1536	$[16, 12, 4, 2, 1^{12}]$
$[12, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $12T_{66}^*$	$16T_{1323}^{+*}$ 1536	$[16, 12, 4, 2, 1^{12}]$
$[12, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $12T_{88}^*$	$16T_{1513}^{+*}$ 3072	$[16, 12, 4, 2^2, 1^{11}]$
$[12, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $12T_{88}^*$	$16T_{1546}^{+*}$ 3072	$[16, 12, 4, 2^2, 1^{11}]$
$[12, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $12T_{89}^{+*}$	$16T_{1518}^{*}$ 3072	$[16, 12, 4, 2^2, 1^{11}]$
$[12, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $12T_{92}^*$	$16T_{1510}^{+*}$ 3072	$[16, 12, 4, 2^2, 1^{11}]$
$[12, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $12T_{92}^*$	$16T_{1543}^{+*}$ 3072	$[16, 12, 4, 2^2, 1^{11}]$
$[12, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $12T_{93}^*$	$16T_{1544}^{+*}$ 3072	$[16, 12, 2^4, 1^{10}]$
$[12, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $12T_{96}^*$	$16T_{1541}^{+*}$ 3072	$[16, 12, 4, 2^2, 1^{11}]$
$[12, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $12T_{97}^{+*}$	$16T_{1527}^{*}$ 3072	$[16, 12, 4, 2^2, 1^{11}]$
$[12, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $12T_{99}^*$	$16T_{1511}^{+*}$ 3072	$[16, 12, 4, 2^2, 1^{11}]$
$[12, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $12T_{100}^*$	$16T_{1530}^{+*}$ 3072	$[16, 12, 4, 2^2, 1^{11}]$
$[12, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $12T_{102}^*$	$16T_{1528}^{+*}$ 3072	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[12, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $12T_{110}^*$	$16T_{1533}^{+*}$ $3072$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[12, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $12T_{111}^*$	$16T_{1532}^{+*} 3072$	[16, 12, 8, 2, 1 <sup>12</sup> ]
	sible Galois Groups, $D(G)$ : Degrees of	-	
	F -, - (-)81000	, - (- ).	. , ( - / 0

Splitting table of degree 16

D(G)	S(G)	G	$\mathcal{L}(G)$
$[12, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $12T_{112}^{+*}$	$16T^*_{1540}$ $3072$	$[16, 12, 8, 2, 1^{12}]$
$[12, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $12T_{113}^{+*}$	$16T_{1524}^*$ 3072	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[12, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $12T_{114}^*$	$16T_{1535}^{+*}$ 3072	[16, 12, 8, 2, 1 <sup>12</sup> ]
$[12, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $12T_{115}^*$	$16T_{1539}^{+*}$ 3072	$[16, 12, 8, 2, 1^{12}]$
$[12, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $12T_{135}^*$	$16T_{1685}^{+*}$ 6144	$[16, 12, 2^5, 1^9]$
$[12, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $12T_{135}^*$	$16T_{1692}^{*}$ 6144	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[12, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $12T_{135}^*$	$16T_{1761}^*$ 12288	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[12, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $12T_{137}^*$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$[16, 12, 8, 2^2, 1^{11}]$
$[12, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $12T_{137}^*$	$16T_{1687}^*$ 6144	$[16, 12, 4, 2^3, 1^{10}]$
$[12, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $12T_{138}^{+*}$	$16T_{1666}^*$ 6144	$[16, 12, 8, 2^2, 1^{11}]$
$[12, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $12T_{140}^*$	$16T_{1663}^{+*}$ 6144	$[16, 12, 8, 2^2, 1^{11}]$
$[12, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $12T_{140}^*$	$16T_{1688}^{*}$ 6144	$[16, 12, 4, 2^3, 1^{10}]$
$[12, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $12T_{141}^*$	$16T_{1657}^*$ 6144	$[16, 12, 4^2, 2, 1^{11}]$
$[12, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $12T_{141}^*$	$16T_{1672}^*$ 6144	$[16, 12, 4^2, 2, 1^{11}]$
$[12, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $12T_{142}^*$	$16T_{1656}^{+*}$ 6144	$[16, 12, 4^2, 2, 1^{11}]$
$[12, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $12T_{142}^*$	$16T_{1669}^{+*}$ 6144	$[16, 12, 4^2, 2, 1^{11}]$
$[12, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $12T_{146}^*$	$16T_{1677}^{+*}$ 6144	$[16, 12, 8, 2^2, 1^{11}]$
$[12, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $12T_{146}^*$	$16T_{1691}^*$ 6144	$[16, 12, 4, 2^3, 1^{10}]$
$[12, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $12T_{147}^*$	$16T_{1674}^{*}$ 6144	$[16, 12, 8, 2^2, 1^{11}]$
$[12, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $12T_{148}^*$	$16T_{1683}^{+*}$ 6144	$[16, 12, 4^2, 2, 1^{11}]$
$[12, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $12T_{149}^*$	$16T_{1678}^{*}$ 6144	$[16, 12, 8, 2^2, 1^{11}]$
$[12, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $12T_{149}^*$	$16T_{1689}^{+*}$ 6144	$[16, 12, 4, 2^3, 1^{10}]$
$[12, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $12T_{151}^*$	$16T_{1679}^{*}$ 6144	$[16, 12, 4^2, 2, 1^{11}]$
$[12, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $12T_{152}^*$	$16T_{1682}^{+*}$ 6144	$[16, 12, 8, 2^2, 1^{11}]$
$[12, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $12T_{153}^*$	$16T_{1661}^{+*}$ 6144	$[16, 12, 8, 2^2, 1^{11}]$
$[12, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $12T_{185}^*$	$16T_{1758}^*$ 12288	$[16, 12, 8, 4, 2, 1^{11}]$
$[12, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $12T_{185}^*$	$16T_{1760}^*$ 12288	$[16, 12, 4^2, 2^2, 1^{10}]$
$[12, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $12T_{186}^*$	$16T_{1757}^{+*}$ 12288	[16, 12, 8, 4, 2, 1 <sup>11</sup> ]
$[12, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $12T_{186}^*$	$16T_{1764}^{*}$ 12288	$[16, 12, 4^2, 2^2, 1^{10}]$
$[12, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $12T_{188}^*$	$16T_{1767}^{+*}$ 12288	$[16, 12, 4, 2^4, 1^9]$
$[12, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $12T_{188}^*$	$16T_{1810}^{*}$ 24576	$[16, 12, 4, 2^5, 1^8]$
$[12, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $12T_{222}^*$	$16T_{1809}^*$ 24576	$[16, 12, 4^2, 2^3, 1^9]$
$[12, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $12T_{222}^*$	$16T_{1811}^{+*}$ 24576	$[16, 12, 4^2, 2^3, 1^9]$
$[12, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $12T_{222}^*$	$16T_{1845}^*$ 49152	$[16, 12, 4^2, 2^4, 1^8]$
$[12, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $12T_{224}^*$	$16T_{1816}^{+*}$ 24576	$[16, 12, 8, 2^4, 1^9]$
$[12, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $12T_{224}^*$	$16T_{1817}^*$ 24576	$[16, 12, 8, 2^4, 1^9]$
$[12, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $12T_{224}^*$	$16T_{1849}^*$ 49152	$[16, 12, 8, 2^5, 1^8]$
$[12, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $12T_{227}^*$	$16T_{1815}^{+*}$ 24576	$[16, 12, 8, 2^4, 1^9]$
$[12, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $12T_{227}^*$	$16T_{1818}^*$ 24576	$[16, 12, 8, 2^4, 1^9]$
$[12, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $12T_{227}^*$	$16T_{1848}^*$ 49152	$[16, 12, 8, 2^5, 1^8]$
$[12, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $12T_{250}^*$	$16T^*_{1847}$ 49152	$[16, 12, 8, 4, 2^3, 1^9]$
$[12, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $12T_{250}^*$	$16T^*_{1850}$ 49152	$[16, 12, 8, 4, 2^3, 1^9]$
$[12, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $12T_{250}^*$	$16T_{1851}^*$ 49152	$[16, 12, 8, 4, 2^3, 1^9]$
$[12, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $12T_{250}^*$	$16T_{1852}^{+*}$ 49152	$[16, 12, 8, 4, 2^3, 1^9]$
$[12, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $12T_{250}^*$	$16T_{1879}^*$ 98304	$[16, 12, 8, 4, 2^4, 1^8]$
G: Poss	sible Galois Groups, $D(G)$ : Degrees	s of factors, $S(G)$ : Galois Grou	ups of factors, $\mathcal{L}(G)$ : Initial Degrees

Splitting table of degree 16

D(G)	S(G)	$G \qquad  G $	$\mathcal{L}(G)$
$[4^2, 3^2, 1^2]$	$(1T_1)^2$ , $(3T_1^{+*})^2$ , $(4T_4^{+*})^2$	$16T_{416}^{+*}$ 192	$[16, 4, 3, 1^{13}]$
$[4^2, 3^2, 1^2]$	$(1T_1)^2$ , $(3T_1)^2$ , $(4T_4)^2$	$16T_{416}   192$ $16T_{418}^{+*}   192$	$   \begin{bmatrix}     16, 4, 3, 1 \\     \hline     16, 4, 3, 1^{13}   \end{bmatrix} $
$[4^2, 3^2, 1^2]$	$(1T_1)^2$ , $(3T_1)^2$ , $(4T_4)^2$ $(1T_1)^2$ , $(3T_1^{+*})^2$ , $(4T_4^{+*})^2$	101 <sub>418</sub> 192	
[4, 3, 1]	$(1T_1)^2$ , $(3T_1^{+*})^2$ , $(4T_4^{+*})^2$	$16T_{429}^{+*}$ 192	$[16, 4, 3, 1^{13}]$
$[4^2, 3^2, 1^2]$	$(1T_1)^2$ , $(3T_1^{+*})^2$ , $(4T_4^{+*})^2$	16T <sub>434</sub> 192	[16, 4, 3, 1 <sup>13</sup> ]
$[4^2, 3^2, 1^2]$	$(1T_1)^2$ , $(3T_1^{+*})^2$ , $(4T_4^{+*})^2$	$16T_{435}^{+*}$ 192	$[16, 4, 3, 1^{13}]$
$[4^2, 3^2, 1^2]$	$(1T_1)^2$ , $(3T_1^{+*})^2$ , $(4T_4^{+*})^2$	$16T_{1027}^{+*}$ 576	$[16, 4, 3^2, 1^{12}]$
$[4^2, 3^2, 1^2]$	$(1T_1)^2$ , $(3T_1^{+*})^2$ , $(4T_4^{+*})^2$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$[16, 4, 3^2, 1^{12}]$
$[4^2, 3^2, 1^2]$	$(1T_1)^2$ , $(3T_1^{+*})^2$ , $(4T_4^{+*})^2$	$16T_{1031}^{+*}$ 576	$[16, 4, 3^2, 1^{12}]$
$[4^2, 3^2, 1^2]$	$(1T_1)^2$ , $(3T_1^{+*})^2$ , $(4T_4^{+*})^2$	$16T_{1032}^{+*}$ 576	$[16, 4, 3^2, 1^{12}]$
$[4^2, 3^2, 1^2]$	$(1T_1)^2$ , $(3T_2^*)^2$ , $(4T_5^*)^2$	$16T_{724}^{+*}$ 384	$[16, 4, 3, 2, 1^{12}]$
$[4^2, 3^2, 1^2]$	$(1T_1)^2$ , $(3T_2^*)^2$ , $(4T_5^*)^2$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$[16, 4, 3, 2, 1^{12}]$
$[4^2, 3^2, 1^2]$	$(1T_1)^2$ , $(3T_2^*)^2$ , $(4T_5^*)^2$	$16T_{1287}^{+*}$ 1152	$[16, 4, 3^2, 2, 1^{11}]$
$[4^2, 3^2, 1^2]$	$(1T_1)^2, (3T_2^*)^2, (4T_5^*)^2$	$16T_{1288}^{+*}$ 1152	$[16, 4, 3^2, 2, 1^{11}]$
$[4^2, 3^2, 1^2]$	$(1T_1)^2$ , $(3T_2^*)^2$ , $(4T_5^*)^2$	$16T_{-2}^{+*}$ 1152	$[16, 4, 3^2, 2, 1^{11}]$
$ \begin{array}{c ccccc} \hline [4^2, 3^2, 1^2] \\ \hline [4^2, 3^2, 1^2] \end{array} $	$(1T_1)^2, (3T_2^*)^2, (4T_5^*)^2$	$16T_{1290}^{+*}$ 1152	$[16, 4, 3^2, 2, 1^{11}]$
$[4^2, 3^2, 1^2]$	$(1T_1)^2$ , $(3T_2^*)^2$ , $(4T_5^*)^2$	$16T_{1295}^{+*}$ 1152	$[16, 4, 3^2, 2, 1^{11}]$
$[4^2, 3^2, 1^2]$	$(1T_1)^2$ , $(3T_2^*)^2$ , $(4T_5^*)^2$	$16T_{1494}^{+*}$ 2304	$[16, 4, 3^2, 2^2, 1^{10}]$
$[4^2, 3^2, 1^2]$	$(1T_1)^2$ , $(3T_2^*)^2$ , $(4T_5^*)^2$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$[16, 4, 3^2, 2^2, 1^{10}]$
$[8, 3^2, 1^2]$	$\begin{array}{c} (1T_1)^2, \ (3T_1^{+*})^2, \ 8T_{12}^{+*} \\ (1T_1)^2, \ (3T_1^{+*})^2, \ 8T_{12}^{+*} \\ (1T_1)^2, \ (3T_1^{+*})^2, \ 8T_{12}^{+*} \\ \end{array}$	$16T_{730}^{+*}$ 384	$[16, 8, 3, 1^{13}]$
$[8, 3^2, 1^2]$	$(1T_1)^2$ , $(3T_1^{+*})^2$ , $8T_{12}^{+*}$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$[16, 8, 3, 1^{13}]$
$[8, 3^2, 1^2]$	$(1T_1)^2$ , $(3T_1^{+*})^2$ , $8T_{12}^{+*}$	$16T_{1291}^{+*}$ 1152	$[16, 8, 3^2, 1^{12}]$
$[8, 3^2, 1^2]$	$(1T_1)^2$ , $(3T_1^{+*})^2$ , $8T_{13}^{+*}$	$16T_{719}^{+*}$ 384	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[8, 3^2, 1^2]$	$(1T_1)^2$ , $(3T_1^{+*})^2$ , $8T_{13}^{+*}$	$16T_{765}^{+*}$ 384	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[8, 3^2, 1^2]$	$\begin{array}{c} (1T_1)^2, \ (3T_1^{+*})^2, \ 8T_{13}^{+*} \\ (1T_1)^2, \ (3T_1^{+*})^2, \ 8T_{13}^{+*} \\ (1T_1)^2, \ (3T_1^{+*})^2, \ 8T_{13}^{+*} \\ (1T_1)^2, \ (3T_1^{+*})^2, \ 8T_{14}^{+*} \\ (1T_1)^2, \ (3T_1^{+*})^2, \ 8T_{14}^{+*} \end{array}$	$16T_{1286}^{+*}$ 1152	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[8, 3^2, 1^2]$	$(1T_1)^2$ , $(3T_1^{+*})^2$ , $8T_{14}^{+*}$	$16T_{1296}^{+*}$ $1152$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[8, 3^2, 1^2]$	$(1T_1)^2$ , $(3T_2^*)^2$ , $8T_{13}^{+*}$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	
$[8, 3^2, 1^2]$	$(1T_1)^2$ , $(3T_2)^2$ , $8T_{14}^{+*}$	$16T_{742}^{+*}$ 384	$[16, 4, 3, 2, 1^{12}]$
$[8, 3^2, 1^2]$	$(1T_1)^*, (3T_2)^*, (3T_{14}^*)^2, (3T_2^*)^2, 8T_{14}^{+*}$	$16T_{742}^{+*}$ $384$	$[16, 4, 3, 2, 1]$ $[16, 4, 3, 2, 1^{12}]$
	$\begin{array}{c} (1T_1)^2, \ (3T_2^*)^2, \ 8T_{14}^{+*} \\ (1T_1)^2, \ (3T_2^*)^2, \ 8T_{14}^{+*} \\ (1T_1)^2, \ (3T_2^*)^2, \ 8T_{14}^{+*} \\ (1T_1)^2, \ (3T_2^*)^2, \ 8T_{24}^{+*} \\ \end{array}$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$[16, 4, 3^2, 2, 1^{11}]$
$     \begin{bmatrix}       8, 3^2, 1^2     \end{bmatrix}   $	$(1T_1)^2$ , $(3T_2)^2$ , $8T_{24}^{+*}$	$16T_{1293}^{+*}$ $16Z_{1053}^{+*}$ $768$	$[16, 4, 3, 2, 1]$ $[16, 8, 3, 2, 1^{12}]$
$   \begin{array}{c cccccccccccccccccccccccccccccccccc$	$(1T_1)^{2}, (3T_2)^{2}, 8T_{24}^{+*}$	$16T_{1053}^{+*}$ $16T_{1493}^{+*}$ $2304$	$   \begin{bmatrix}     16, 8, 3, 2, 1 \\     16, 8, 3^2, 2, 1^{11}   \end{bmatrix} $
$[8, 3^2, 1^2]$		101 <sub>1493</sub> 2304	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
	$(1T_1)^2$ , $(3T_2^*)^2$ , $8T_{24}^{+*}$	$16T_{1495}^{+*}$ 2304	$   \begin{bmatrix}     16, 8, 3^2, 2, 1^{11} \\     16, 8, 3^2, 2, 1^{11}   \end{bmatrix} $
	$(1T_1)^2$ , $(3T_2^*)^2$ , $8T_{24}^{+*}$	16T <sub>1496</sub> <sup>+*</sup> 2304	
$[8, 3^2, 1^2]$	$(1T_1)^2$ , $(3T_2^*)^2$ , $8T_{24}^{+*}$	16T <sub>1498</sub> <sup>+*</sup> 2304	$[16, 8, 3^2, 2, 1^{11}]$
$[8, 3^2, 1^2]$	$(1T_1)^2$ , $(3T_2^*)^2$ , $8T_{24}^{+*}$	16T <sub>1648</sub> <sup>+*</sup> 4608	$[16, 8, 3^2, 2^2, 1^{10}]$
$[6, 4^2, 1^2]$	$(1T_1)^2$ , $(4T_4^{+*})^2$ , $6T_4^{+*}$	$16T_{425}^{+*}$ 192	$[16, 6, 2, 1^{13}]$
$[6, 4^2, 1^2]$	$(1T_1)^2$ , $(4T_4^{+*})^2$ , $6T_4^{+*}$	$16T_{428}^{+*}$ 192	$[16, 6, 2, 1^{13}]$
$[6, 4^2, 1^2]$	$(1T_1)^2$ , $(4T_4^{+*})^2$ , $6T_4^{+*}$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$[16, 6, 2, 1^{13}]$
$[6, 4^2, 1^2]$	$(1T_1)^2$ , $(4T_4^{+*})^2$ , $6T_4^{+*}$	$16T_{444}^{+*}$ 192	$[16, 6, 2, 1^{13}]$
$[6, 4^2, 1^2]$	$(1T_1)^2$ , $(4T_5^*)^2$ , $6T_7^{+*}$	$16T_{748}^{+*}$ 384	$[16, 6, 4, 1^{13}]$
$[6, 4^2, 1^2]$	$(1T_1)^2$ , $(4T_5^*)^2$ , $6T_7^{+*}$	$16T_{759}^{+*}$ 384	$[16, 6, 4, 1^{13}]$
$[8, 6, 1^2]$	$(1T_1)^2$ , $6T_2^*$ , $8T_{23}^*$	$16T_{1067}^{+*}$ 768	$[16, 8, 6, 1^{13}]$
$[8, 6, 1^2]$	$(1T_1)^2$ , $6T_2^*$ , $8T_{23}^*$	$16T^*_{1499}$ 2304	$[16, 8, 6, 3, 1^{12}]$
$[8, 6, 1^2]$	$(1T_1)^2, 6T_2^*, 8T_{23}^*$	$16T_{1500}^{+*}$ 2304	$[16, 8, 6, 3, 1^{12}]$
$[8, 6, 1^2]$	$(1T_1)^2, 6T_2^*, 8T_{23}^*$	$16T^*_{1651}$ 4608	$[16, 8, 6^2, 1^{12}]$
G: Poss		of factors, $S(G)$ : Galois G	roups of factors, $\mathcal{L}(G)$ : Initial Degrees
$\Rightarrow$			

Splitting table of degree 16

D(G)	S(G)	G   G	$\mathcal{L}(G)$
$[8, 6, 1^2]$	$(1T_1)^2$ , $6T_4^{+*}$ , $8T_{12}^{+*}$		$[16, 6, 2^2, 1^{12}]$
$[8, 6, 1^2]$	$(1T_1)^2$ , $6T_4^+$ , $8T_{12}^+$ $(1T_1)^2$ , $6T_4^{+*}$ , $8T_{12}^{+*}$		$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
	$(111)$ , $01_4$ , $01_{12}$	$16T_{735}^{+*}$ $384$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[8, 6, 1^2]$	$(1T_1)^2$ , $6T_4^{+*}$ , $8T_{12}^{+*}$	101 <sub>771</sub> 384	
$[8, 6, 1^2]$	$(1I_1)^2, 0I_4^{-1}, 8I_{13}^{-1}$	16T <sub>723</sub> 384	$[16, 6, 2^2, 1^{12}]$
$[8, 6, 1^2]$	$(1T_1)^2$ , $6T_4^{-1}$ , $8T_{13}^{-1}$	16T <sub>727</sub> 384	$[16, 6, 2^2, 1^{12}]$
$[8, 6, 1^2]$	$\begin{array}{c} (11), & 61_4, & 61_{12} \\ (17_1)^2, & 67_4^{+*}, & 87_{13}^{+*} \\ (17_1)^2, & 67_4^{+*}, & 87_{13}^{+*} \\ (17_1)^2, & 67_4^{+*}, & 87_{13}^{+*} \\ \end{array}$	$16T_{750}^{+*}$ 384	$[16, 6, 2^2, 1^{12}]$
$[8, 6, 1^2]$	$(1T_1)^2$ , $6T_4^{-1}$ , $8T_{32}^{-1}$	$16T_{1304}^{+*}$ 1536	$[16, 8, 6, 2, 1^{12}]$
$[8, 6, 1^2]$	$(1T_1)^2$ , $6T_4^{+*}$ , $8T_{32}^{+*}$	$16T_{1307}^{+*}$ 1536	$[16, 8, 6, 2, 1^{12}]$
$[8, 6, 1^2]$	$(1T_1)^2$ , $6T_4^{+*}$ , $8T_{32}^{+*}$	$16T_{1318}^{+*}$ 1536	$[16, 8, 6, 2, 1^{12}]$
$[8, 6, 1^2]$	$(1T_1)^2$ , $6T_4^{+*}$ , $8T_{32}^{+*}$	$16T_{1321}^{+*}$ 1536	$[16, 8, 6, 2, 1^{12}]$
$[8, 6, 1^2]$	$(1T_1)^2$ , $6T_4^{+*}$ , $8T_{32}^{+*}$	$16T_{1671}^{+*}$ 6144	$[16, 8, 6, 2^3, 1^{10}]$
$[8, 6, 1^2]$	$(1T_1)^2$ , $6T_4^{+*}$ , $8T_{32}^{+*}$	$16T_{1686}^{+*}$ 6144	$[16, 8, 6, 2^3, 1^{10}]$
$[8, 6, 1^2]$	$(1T_1)^2$ , $6T_4^{+*}$ , $8T_{32}^{+*}$	$16T_{1791}^{+*}$ 18432	$[16, 8, 6^2, 2^2, 1^{10}]$
$[8, 6, 1^2]$	$(1T_1)^2$ , $6T_6^*$ , $8T_{38}^*$	$16T^*_{1754}$ 12288	$[16, 8, 6, 2^4, 1^9]$
$[8, 6, 1^2]$	$\begin{array}{c} (111)^{2}, \ 6T_{4}^{4}, \ 8T_{32}^{4*} \\ (1T_{1})^{2}, \ 6T_{4}^{4*}, \ 8T_{32}^{4*} \\ (1T_{1})^{2}, \ 6T_{4}^{4*}, \ 8T_{32}^{4*} \\ (1T_{1})^{2}, \ 6T_{4}^{4*}, \ 8T_{32}^{4*} \\ (1T_{1})^{2}, \ 6T_{6}^{6}, \ 8T_{38}^{**} \\ (1T_{1})^{2}, \ 6T_{6}^{6}, \ 8T_{38}^{**} \\ (1T_{1})^{2}, \ 6T_{6}^{6}, \ 8T_{38}^{**} \\ (1T_{1})^{2}, \ 6T_{6}^{*}, \ 8T_{38}^{**} \\ (1T_{1})^{2}, \ 6T_{6}^{*}, \ 8T_{38}^{**} \\ \end{array}$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$[16, 8, 6, 2^4, 1^9]$
$[8, 6, 1^2]$	$(1T_1)^2$ , $6T_6^*$ , $8T_{38}^*$	$16T_{1762}^{+*}$ 12288	$[16, 8, 6, 2^4, 1^9]$
$[8, 6, 1^2]$	$(1T_1)^2$ , $6T_6^*$ , $8T_{38}^*$	$16T_{1766}^*$ 12288	$[16, 8, 6, 2^4, 1^9]$
$[8, 6, 1^2]$	$(1T_1)^2$ , $6T_6^*$ , $8T_{38}^*$	$16T_{1806}^*$ 24576	$[16, 8, 6, 2^5, 1^8]$
$[8, 6, 1^2]$	$(1T_1)^2$ , $6T_6^*$ , $8T_{38}^*$	$16T_{1814}^{*}$ 24576	$[16, 8, 6, 2^5, 1^8]$
$[8, 6, 1^2]$	$(1T_1)^2$ , $6T_6^*$ , $8T_{38}^*$	$16T_{1824}^{+*}$ 36864	$[16, 8, 6^2, 2^3, 1^9]$
$[8, 6, 1^2]$	$(1T_1)^2$ , $6T_6^*$ , $8T_{38}^*$	$16T_{1825}^*$ 36864	$[16, 8, 6^2, 2^3, 1^9]$
$[8, 6, 1^2]$	$(1T_1)^2$ , $6T_6^*$ , $8T_{38}^*$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$[16, 8, 6^2, 2^4, 1^8]$
$[8, 6, 1^2]$	$(1T_1)^2$ , $6T_7^{+*}$ , $8T_{14}^{+*}$	$16T^{+*}$ 384	$[16, 6, 4, 1^{13}]$
$[8, 6, 1^2]$	$(1T_1)^2$ , $6T_7^{+*}$ , $8T_{14}^{+*}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$[16, 6, 4, 1^{13}]$
$[8, 6, 1^2]$	$(1T_1)^2$ , $6T_7^{+*}$ , $8T_{24}^{+*}$	$16T_{1058}^{+*}$ 768	$[16, 6, 4, 2, 1^{12}]$
$[8, 6, 1^2]$	$(1T_1)^2$ , $6T_7^{+*}$ , $8T_{39}^{+*}$	$16T_{1534}^{+*}$ 3072	$[16, 8, 6, 4, 1^{12}]$
$[8, 6, 1^2]$	$(1T_1)^2$ $6T_{-}^{+*}$ $8T_{-}^{+*}$	$16T_{1765}^{+*}$ 12288	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[8, 6, 1^2]$	$\begin{array}{c} (1T_1)^2, \ 6T_7^{+*}, \ 8T_{39}^{+*} \\ (1T_1)^2, \ 6T_7^{-*}, \ 8T_{39}^{+*} \\ (1T_1)^2, \ 6T_7^{+*}, \ 8T_{39}^{+*} \\ (1T_1)^2, \ 6T_7^{+*}, \ 8T_{39}^{+*} \end{array}$	$16T_{1835}^{+*}$ 36864	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[8, 6, 1^2]$	$(1T_1)^2$ , $6T_7^+$ , $6T_{39}^+$	$16T_{1836}^{+*}$ $36864$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[8, 6, 1^2]$	$(1T_1)^2, 0T_7^+, 0T_{39}^-$	$16T_{1836}^{+*}$ $73728$	$[16, 8, 6^2, 4^2, 1^{10}]$
$[8, 6, 1^2]$	$(1T_1)^2$ , $6T_7^{+*}$ , $8T_{39}^{+*}$ $(1T_1)^2$ , $6T_8^*$ , $8T_{23}^*$	$16T_{1062}^{+*}$ 768	$[16, 6, 4, 2, 1^{12}]$
$[8, 6, 1^2]$	$(1T_1)^2$ , $6T_8^*$ , $8T_{40}^*$	$16T_{1062}^{+*}$ $3072$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[8, 6, 1^2]$	$(1T_1)^2$ , $6T_8^*$ , $8T_{40}^*$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$[16, 8, 6, 4, 1]$ $[16, 8, 6, 4, 2^2, 1^{10}]$
$[8, 6, 1^2]$	$(1T_1)^2$ , $6T_8^*$ , $8T_{40}^*$	$16T_{1832}^*$ $36864$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[8, 6, 1^2]$	$(1T_1)^2$ , $6T_8^*$ , $8T_{40}^*$	$16T_{1837}^{+*}$ $36864$	$\begin{bmatrix} [16, 8, 6^2, 4, 2, 1^{10}] \\ [16, 8, 6^2, 4^2, 1^{10}] \end{bmatrix}$
$[8, 6, 1^2]$	$(1T_1)^2$ , $6T_8^*$ , $8T_{40}^*$	$16T_{1871}^{*}$ 73728	$[16, 8, 6^2, 4^2, 1^{10}]$
$[8, 6, 1^2]$	$(1T_1)^2$ , $6T_{11}^*$ , $8T_{44}^*$	16T** 24576	$[16, 8, 6, 4, 2^3, 1^9]$
$[8, 6, 1^2]$	$(1T_1)^2$ , $6T_{11}^*$ , $8T_{44}^*$	$16T_{1808}^{+*}$ 24576	$[16, 8, 6, 4, 2^3, 1^9]$
$[8, 6, 1^2]$	$(1T_1)^2$ , $6T_{11}^*$ , $8T_{44}^*$	16T* 24576	$[16, 8, 6, 4, 2^3, 1^9]$
$[8, 6, 1^2]$	$(1T_1)^2$ , $6T_{11}^*$ , $8T_{44}^*$	16T <sub>1813</sub> 24576	$[16, 8, 6, 4, 2^3, 1^9]$
$[8, 6, 1^2]$	$(1T_1)^2$ , $6T_{11}^*$ , $8T_{44}^*$	16T <sub>1846</sub> 49152	$[16, 8, 6, 4, 2^4, 1^8]$
$[8, 6, 1^2]$	$(1T_1)^2$ , $6T_{11}^*$ , $8T_{44}^*$	16T <sub>1863</sub> 73728	$[16, 8, 6^2, 4, 2^2, 1^9]$
$[8, 6, 1^2]$	$(1T_1)^2$ , $6T_{11}^*$ , $8T_{44}^*$	16T <sub>1865</sub> 73728	$[16, 8, 6^2, 4, 2^2, 1^9]$
$[8, 6, 1^2]$	$(1T_1)^2$ , $6T_{11}^*$ , $8T_{44}^*$	$16T_{1866}^*$ 73728	$[16, 8, 6^2, 4, 2^2, 1^9]$
$[8, 6, 1^2]$	$(1T_1)^2$ , $6T_{11}^*$ , $8T_{44}^*$	$16T_{1867}^{+*}$ 73728	$[16, 8, 6^2, 4, 2^2, 1^9]$
G: Poss	sible Galois Groups, $D(G)$ : Degrees	of factors, $S(G)$ : Galois Gro	oups of factors, $\mathcal{L}(G)$ : Initial Degrees

Splitting table of degree 16

D(G)	S(G)	G $G$	$\mathcal{L}(G)$
$[8, 6, 1^2]$	$(1T_1)^2$ , $6T_{11}^*$ , $8T_{44}^*$	$16T_{1869}^{+*}$ 73728	$[16, 8, 6^2, 4, 2^2, 1^9]$
$[8, 6, 1^2]$	$(1T_1)^2$ , $6T_{11}^*$ , $8T_{44}^*$	$16T_{1870}^{*}$ 73728	$[16, 8, 6^2, 4, 2^2, 1^9]$
$[8, 6, 1^2]$	$(1T_1)^2$ , $6T_{11}^*$ , $8T_{44}^*$	$16T_{1872}^*$ 73728	$[16, 8, 6^2, 4, 2^2, 1^9]$
$[8, 6, 1^2]$	$(1T_1)^2$ , $6T_{11}^*$ , $8T_{44}^*$	$16T_{1884}^{+*}$ 147456	$[16, 8, 6^2, 4^2, 2, 1^9]$
$[8, 6, 1^2]$	$(1T_1)^2$ $6T_1^*$ $8T_1^*$	$16T_{*\circ\circ}^*$ 147456	$[16, 8, 6^2, 4^2, 2, 1^9]$
$[8, 6, 1^2]$	$(1T_1)^2$ , $6T_{11}^*$ , $8T_{44}^*$	$16T^*_{1886}$ 147456	$[16, 8, 6^2, 4^2, 2, 1^9]$
$[8, 6, 1^2]$	$(1T_1)^2$ , $6T_{11}^*$ , $8T_{44}^*$	$16T_{1887}^*$ $147456$	$[16, 8, 6^2, 4, 2^3, 1^8]$
$[8, 6, 1^2]$	$(1T_1)^2$ , $6T_{11}^*$ , $8T_{44}^*$	$16T_{1888}^*$ $147456$	$[16, 8, 6^2, 4^2, 2, 1^9]$
$[8, 6, 1^2]$	$(1T_1)^2$ , $6T_{11}^*$ , $8T_{44}^*$	$16T^*_{1889}$ $147456$	$[16, 8, 6^2, 4, 2^3, 1^8]$
$[8, 6, 1^2]$	$(1T_1)^2$ , $6T_{11}^*$ , $8T_{44}^*$	$16T^*_{1905}$ 294912	$[16, 8, 6^2, 4^2, 2^2, 1^8]$
$[7^2, 1^2]$	$\begin{array}{c} (1T_1)^2,\ 6T_{11}^*,\ 8T_{44}^*\\ (1T_1)^2,\ (7T_1^{+*})^2\\ (1T_1)^2,\ (7T_1^{+*})^2\\ \end{array}$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$[16, 7, 1^{14}]$
$[7^2, 1^2]$	$(11_1)^-, (11_3)^-$	$16T_{712}^{+*}$ 336	$[16, 7, 3, 1^{13}]$
$[7^2, 1^2]$	$(1T_1)^2$ , $(7T_3^{+*})^2$	101713 330	$[16, 7, 3, 1^{13}]$
$[7^2, 1^2]$	$(1T_1)^2$ , $(7T_3^{+*})^2$	$16T_{714}^{+}$ 336	$[16, 7, 3, 1^{13}]$
$[7^2, 1^2]$	$(1T_1)^2$ , $(7T_3^{+*})^2$	$16T_{715}^{+}$ 336	$[16, 7, 3, 1^{13}]$
$[7^2, 1^2]$	$(1T_1)^2$ , $(7T_4^*)^2$	$16T_{1035}^{+}$ 672	$[16, 7, 6, 1^{13}]$
$[7^2, 1^2]$	$(1T_1)^2$ , $(7T_5^+)^2$	$16T_{1504}^{+}$ 2688	$[16, 7, 6, 4, 1^{12}]$
$[7^2, 1^2]$	$(1T_1)^2$ , $(7T_6^+)^2$	$16T_{1838}^{+}$ 40320	$[16, 7, 6, 5, 4, 3, 1^{10}]$
$[7^2, 1^2]$	$(1T_1)^2$ , $(7T_6^+)^2$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$[16, 7, 6, 5, 4, 3, 1^{10}]$
$[7^2, 1^2]$	$(1T_1)^2$ , $(7T_7)^2$	$16T_{1873}^{+}$ 80640	$[16, 7, 6, 5, 4, 3, 2, 1^9]$
$[14, 1^2]$	$(1T_1)^2$ , $14T_4^*$	$16T_{1036}$ 672	$[16, 14, 3, 1^{13}]$
$[14, 1^2]$	$(1T_1)^2$ , $14T_6^{+*}$	$16T_{1076}^{+*}$ 896	$[16, 14, 2^2, 1^{12}]$
$[14, 1^2]$	$\begin{array}{c} (1T_1), (1T_7) \\ (1T_1)^2, 14T_4^* \\ (1T_1)^2, 14T_6^{+*} \\ (1T_1)^2, 14T_6^{+*} \end{array}$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$[16, 14, 2^2, 1^{12}]$
$[14, 1^2]$	$(1T_1)^2$ , $14T_{10}$	$ 16T_{1507}^{+} 2688$	$[16, 14, 12, 1^{13}]$
$[14, 1^2]$	$(1T_1)^2$ , $14T_{11}^{+*}$	$16T_{1503}^{+*}$ 2688	$[16, 14, 6, 2, 1^{12}]$
$[14, 1^2]$	$(1T_1)^2$ , $14T_{11}^{+*}$	$16T_{1506}^{+}$ 2688	$[16, 14, 6, 2, 1^{12}]$
$[14, 1^2]$	$(1T_1)^2$ , $14T_{21}^{+*}$	$16T_{1694}^{+*}$ 7168	$[16, 14, 2^5, 1^9]$
$[14, 1^2]$	$(1T_1)^2$ , $14T_{29}^*$	$16T_{1768}^*$ 14336	$[16, 14, 2^6, 1^8]$
$[14, 1^2]$	$(1T_1)^2$ , $14T_{33}^+$	$16T_{1805}^{+}$ 21504	$[16, 14, 12, 8, 1^{12}]$
$[14, 1^2]$	$(1T_1)^2$ , $14T_{34}^+$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$[16, 14, 12, 8, 1^{12}]$
$[14, 1^2]$	$(1T_1)^2$ , $14T_{35}^{+*}$	$16T_{1800}^{+*}$ 21504	$[16, 14, 6, 2^4, 1^9]$
$[14, 1^2]$	$(1T_1)^2$ , $14T_{35}^{-1}$	$16T_{1803}^{+}$ 21504	$[16, 14, 6, 2^4, 1^9]$
$[14, 1^2]$	$(1T_1)^2$ , $14T_{40}^{+*}$	$16T_{1843}$ 43008	$[16, 14, 12, 2^4, 1^9]$
$[14, 1^2]$	$\begin{array}{c} (1T_1)^2, 14T_{34}^{44} \\ (1T_1)^2, 14T_{35}^{+*} \\ (1T_1)^2, 14T_{35}^{+*} \\ (1T_1)^2, 14T_{40}^{**} \\ (1T_1)^2, 14T_{41}^{**} \\ (1T_1)^2, 14T_{44}^{**} \\ \end{array}$	$16T_{1842}^{+}$ 43008 $16T_{1841}^{*}$ 43008	$[16, 14, 12, 2^4, 1^9]$
$[14, 1^2]$	$(1I_1)^2$ , $14I_{44}$	1011	$[16, 14, 6, 2^5, 1^8]$
$[14, 1^2]$	$(1T_1)^2$ , $14T_{44}^*$	16T <sub>1844</sub> 43008	$[16, 14, 6, 2^5, 1^8]$
$   \begin{array}{c c}                                    $	$(1T_1)^2$ , $14T_{48}^*$ $(1T_1)^2$ , $14T_{50}^+$	$16T_{1878}$ $86016$	$ \begin{bmatrix} 16, 14, 12, 2^5, 1^8 \\ 16, 14, 12, 8, 2^3, 1^9 \end{bmatrix} $
$[14, 1^2]$	$(1I_1)^2$ , $14I_{50}$ $(1T_1)^2$ , $14T_{51}$	$16T_{1902}^{+}$ 172032 $16T_{1916}$ 344064	$   \begin{bmatrix}     16, 14, 12, 8, 2^3, 1^9 \\     16, 14, 12, 8, 2^4, 1^8   \end{bmatrix} $
$[14, 1^2]$	$(1T_1)^2$ , $14T_{51}$ $(1T_1)^2$ , $14T_{53}^+$	1010	[16, 14, 12, 8, 2 <sup>-</sup> , 1 <sup>-</sup> ]
$[14, 1^2]$	$(1T_1)^2$ , $14T_{53}$ $(1T_1)^2$ , $14T_{54}$	1990	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
[14, 1]	$(1T_1)^{-}, 14T_{54}^{+}$ $(1T_1)^2, 14T_{55}^{+}$	1010	$   \begin{bmatrix}     16, 14, 12, 10, 8, 6, 4, 1^9 \\     16, 14, 12, 10, 8, 6, 4, 1^9   \end{bmatrix} $
[14, 1]	$(1T_1)^{-1}$ , $14T_{55}$ $(1T_1)^2$ , $14T_{56}$	$\begin{array}{ c c c c }\hline 16T_{1945}^{+} & 5160960 \\ \hline 16T_{1944} & 5160960 \\ \hline \end{array}$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
[14, 1]	$(1T_1)^2$ , $14T_{56}$ $(1T_1)^2$ , $14T_{57}$	$16T_{1944}$ $5100900$ $16T_{1948}$ $10321920$	$ [16, 14, 12, 10, 8, 6, 2, 1] $ $ [16, 14, 12, 10, 8, 6, 4, 2, 1^8] $
$[3^5, 1]$	$1T_1, (3T_1^{+*})^5$	$16T_{1948}^{+*}$ $10321920$ $16T_{63}^{+*}$ $48$	[16, 14, 12, 10, 8, 6, 4, 2, 1]
	ible Galois Groups, $D(G)$ : Degrees		
G. 1 088	iote Gaioto Groups, D(G). Degrees	or ractors, D(G). Gaiois Giou	po of factors, $\mathcal{L}(O)$ . Initial Degrees

Splitting table of degree 16

D(G)	S(G)	G $G$	$\mathcal{L}(G)$
$[3^5, 1]$	$1T_1, (3T_1^{+*})^5$	$16T_{64}^{+*}$ 48	$[16, 3, 1^{14}]$
$[6, 3^3, 1]$	$1T_1, (3T_2^*)^3, 6T_2^*$	$16T_{194}^{+*}$ 96	$[16, 3, 2, 1^{13}]$
$[6, 3^3, 1]$	$1T_1, (3T_2^*)^3, 6T_2^*$	$16T_{195}^{+*}$ 96	$[16, 3, 2, 1^{13}]$
$[9, 3^2, 1]$	$1T_1, (3T_1^{+*})^2, 9T_2^{+*}$	$16T_{444}^{+*}$ 144	$[16, 3^2, 1^{13}]$
$[9, 3^2, 1]$	$1T_1, 3T_1^{+*}, 3T_2^*, 9T_4^*$	$16T_{709}^{+*}$ 288	$[16, 3^2, 2, 1^{12}]$
$[9, 3^2, 1]$	$1T_1, (3T_2^*)^2, 9T_5^{+*}$	$16T_{710}^{+*}$ 288	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[9, 3^2, 1]$	$1T_1 (3T_*^*)^2 9T_*^*$	$16T_{1033}^{+*}$ 576	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^3, 3, 1]$		$16T_{417}^{+*}$ 192	$[16, 4, 3, 1^{13}]$
$[4^3, 3, 1]$	$1T_1, 3T_1^{+*}, (1T_4)$	$16T_{432}^{+*}$ 192	$[16, 4, 3, 1^{13}]$
$[4^3, 3, 1]$	$1T_{1}, 3T_{1}^{+*}, (4T_{4}^{+*})^{3}$ $1T_{1}, 3T_{1}^{+*}, (4T_{4}^{+*})^{3}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^3, 3, 1]$	$1T_1, 3T_1^{+*}, (4T_4^{+*})^3$	$16T_{1039}^{+*}$ 768	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^3, 3, 1]$	$1T_1, 3T_1^+, (1T_4^-)$ $1T_1, 3T_1^{+*}, (4T_4^{+*})^3$	$16T_{1045}^{+*}$ 768	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^3, 3, 1]$		$16T^{+*}$ 768	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^3, 3, 1]$	$1T_1, 0T_1, (4T_4)$ $1T_2, 3T^{+*} (4T^{+*})^3$	$16T_{1514}^{+*}$ $3072$	$[16, 4^3, 3, 1^{11}]$
$[4^3, 3, 1]$	$1T_1, 3T_1^+, (4T_4^-)$	$16T_{1514}^{+*} 3072$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^3, 3, 1]$	$\begin{array}{c} 1T_1,\ 3T_1^{++},\ (4T_4^{++})^3\\ \end{array}$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^3, 3, 1]$	$1T_1, 3T_1, (4T_4)$ $1T_2, 3T^{+*} (AT^{+*})^3$	$16T_{1526}^{+*}$ $3072$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^3, 3, 1]$	$1T_1, 3T_1, (4T_4)$ $1T_2, 3T^{+*}, (4T_4)^3$	$16T_{1529}^{+*}$ 9216	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^3, 3, 1]$	$1T_1, 3T_1, (4T_4)$ $1T_2, 3T_1^{+*}, (4T_4)^3$	$16T_{1747}^{+*}$ 9216	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^3, 3, 1]$	$1T_1, 3T_1, (4T_4)$ $1T_2, 3T^{+*}, (4T_4)^3$	$16T_{1748}^{+*}$ 9216	$[16, 4^{3}, 3^{2}, 1^{10}]$
$[4^3, 3, 1]$	$1T_1, 3T_1, (4T_4)$ $1T_1, 3T_1^{+*}, (4T_4^{+*})^3$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^3, 3, 1]$	$1T_1, 3T_1, (4T_4)$ $1T_1, 3T_1^{+*}, (4T_4^{+*})^3$	$16T_{1819}^{+*}$ 27648	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^3, 3, 1]$	$1T_1, 3T_1, (4T_4)$ $1T_1, 3T_1^{+*}, (4T_4^{+*})^3$		$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^3, 3, 1]$	$1T_1, 3T_1, (4T_4)$ $1T_1, 3T_1^{+*}, (4T_4^{+*})^3$		$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^3, 3, 1]$ $[4^3, 3, 1]$	$1T_1, 3T_1, (4T_4)$ $1T_1, 3T_1^{+*}, (4T_4^{+*})^3$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^3, 3, 1]$ $[4^3, 3, 1]$	$1T_1, 3T_1, (4T_4)$ $1T_1, 3T_1^{+*}, (4T_4^{+*})^3$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^3, 3, 1]$	$1T_1, 3T_1, (4T_4)$ $1T_1, 3T_1^{+*}, (4T_4^{+*})^3$	$16T_{1874}^{+*}$ 82944	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^3, 3, 1]$	$1T_1, 3T_1, (4T_4)$ $1T_1, 3T_2^*, (4T_5^*)^3$	$16T_{1300}^{+*}$ $1536$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^3, 3, 1]$	$1T_1, 3T_2, (4T_5)$ $1T_1, 3T_2^*, (4T_5^*)^3$	$16T_{1300}^{+*}$ $1536$	$[16, 4^2, 3, 2, 1]$ $[16, 4^2, 3, 2, 1^{11}]$
$[4^3, 3, 1]$	$1T_1, 3T_2, (4T_5)$ $1T_1, 3T_2^*, (4T_5^*)^3$	$16T_{1862}^{+*}$ 6144	$[16, 4^{3}, 3, 2, 1^{10}]$
$[4^3, 3, 1]$	$1T_1, 3T_2, (4T_5)$ $1T_1, 3T_2^*, (4T_5^*)^3$	$16T_{1668}^{+*}$ 6144	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^3, 3, 1]$	$1T_1, 3T_2, (4T_5)$ $1T_1, 3T_2^*, (4T_5^*)^3$	$16T_{1784}^{+8}$ $18432$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^3, 3, 1]$	$1T_1, 3T_2, (4T_5)$ $1T_1, 3T_2^*, (4T_5^*)^3$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^3, 3, 1]$	$1T_1, 3T_2^*, (4T_5^*)^3$	$16T_{1786}^{+*}$ $18432$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^3, 3, 1]$	$1T_1, 3T_2, (4T_5)$ $1T_1, 3T_2^*, (4T_5^*)^3$	$16T_{1786}^{+*}$ $18432$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^3, 3, 1]$	$1T_1, 3T_2, (1T_5)$ $1T_1, 3T_2^*, (4T_5^*)^3$	$16T_{1788}^{*}$ $18432$	$   \begin{bmatrix}     16, 4^3, 3^2, 2, 1^9 \\     \hline   \end{bmatrix} $
$[4^3, 3, 1]$	$1T_1, 3T_2, (4T_5)$ $1T_1, 3T_2^*, (4T_5)^3$	$16T_{1788}^{+*}$ $18432$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^3, 3, 1]$	$1T_1, 3T_2, (4T_5)$ $1T_1, 3T_2^*, (4T_5^*)^3$	$16T_{1794}^{+*}$ $18432$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^3, 3, 1]$	$1T_1, 3T_2, (4T_5)$ $1T_1, 3T_2^*, (4T_5^*)^3$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$[16, 4^3, 3^2, 2^2, 1^8]$
$[4^3, 3, 1]$ $[4^3, 3, 1]$	$1T_1, 3T_2, (4T_5)$ $1T_1, 3T_2^*, (4T_5^*)^3$	$16T_{1830}^{+*}$ $36864$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^3, 3, 1]$ $[4^3, 3, 1]$	$1T_1, 3T_2, (4T_5)$ $1T_1, 3T_2^*, (4T_5^*)^3$	$16T_{1831}^{+*}$ $55296$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^3, 3, 1]$	$1T_1, 3T_2, (4T_5)$ $1T_1, 3T_2^*, (4T_5^*)^3$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^3, 3, 1]$ $[4^3, 3, 1]$	$1T_1, 3T_2, (4T_5)^5$ $1T_1, 3T_2^*, (4T_5^*)^3$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^3, 3, 1]$			$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^3, 3, 1]$ $[4^3, 3, 1]$	2 1 1 3 7	1002	$   \begin{bmatrix}     16, 4^3, 3^4, 2, 1^7 \\     \hline     16, 4^3, 3^4, 2, 1^7   \end{bmatrix} $
	$1T_1, 3T_2^*, (4T_5^*)^3$	1033	
G: Pos	since Galois Groups, $D(G)$ : Degree	s of factors, $S(G)$ : Galois Gro	$\frac{\text{oups of factors, } \mathcal{L}(G)\text{: Initial Degrees}}{\Longrightarrow}$

Splitting table of degree 16

D(C)	S(G)	G   G	C(C)	
D(G)	1 /		$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	
$[4^3, 3, 1]$	$1T_1, 3T_2^*, (4T_5^*)^3$			
$[4^3, 3, 1]$	$1T_1, 3T_2^*, (4T_5^*)^3$	16T <sub>1896</sub> 165888	$[16, 4^3, 3^4, 2, 1^7]$	
$[4^3, 3, 1]$	$1T_1, 3T_2^*, (4T_5^*)^3$	16T <sub>1898</sub> 165888	$[16, 4^3, 3^4, 2, 1^7]$	
$[4^3, 3, 1]$	$1T_1, 3T_2^*, (4T_5^*)^3$	$16T^*_{1907}$ 331776	$[16, 4^3, 3^4, 2^2, 1^6]$	
$[4^3, 3, 1]$	$1T_1, 3T_2^*, (4T_5^*)^3$	16T <sub>1908</sub> <sup>+*</sup> 331776	$[16, 4^3, 3^4, 2^2, 1^6]$	
$[4^3, 3, 1]$	$1T_1, 3T_2^*, (4T_5^*)^3$	$16T_{1907}^{+*}$ $331776$ $16T_{1908}^{+*}$ $331776$ $16T_{1911}^{+*}$ $331776$ $16T_{1912}^{+*}$ $331776$	$   \begin{bmatrix}     16, 4^3, 3^4, 2^2, 1^6   \end{bmatrix}   \begin{bmatrix}     16, 4^3, 3^4, 2^2, 1^6   \end{bmatrix} $	
$[4^3, 3, 1]$	$1T_1, 3T_2^*, (4T_5^*)^3$	$16T_{1912}^{+*}$ 331776	$[16, 4^3, 3^4, 2^2, 1^6]$	
$[4^3, 3, 1]$	$1T_1, 3T_2^*, (4T_5^*)^3$	$10I_{1921}  003552$	$[16, 4^3, 3^4, 2^3, 1^5]$	
$[4^3, 3, 1]$	$1T_1, 3T_2^*, (4T_5^*)^3$	$16T^*_{1925}$ $663552$	$[16, 4^3, 3^4, 2^3, 1^5]$	
$[4^3, 3, 1]$	$1T_1, 3T_2^*, (4T_5^*)^3$	$16T_{1926}^{+*}$ $663552$	$[16, 4^3, 3^4, 2^3, 1^5]$	
$[4^3, 3, 1]$	$1T_1, 3T_2^*, (4T_5^*)^3$	$16T_{1927}^*$ $663552$	$[16, 4^3, 3^4, 2^3, 1^5]$	
$[4^3, 3, 1]$	$1T_1, 3T_2^*, (4T_5^*)^3$	$16T_{1932}^*$ $1327104$	$[16, 4^3, 3^4, 2^4, 1^4]$	
$[4^3, 3, 1]$	$1T_1, 3T_2^*, (4T_5^*)^3$	$16T_{1936}^*$ $1327104$	$[16, 4^3, 3^4, 2^4, 1^4]$	
[8, 4, 3, 1]	$1T_1, 3T_1^{+*}, 4T_4^{+*}, 8T_{33}^{+*}$	$16T_{1299}^{+*}$ 1536	$[16, 8, 4, 3, 1^{12}]$	
[8, 4, 3, 1]	$1T_1, 3T_1^{+*}, 4T_4^{+*}, 8T_{33}^{+*}$	$16T_{1315}^{+*}$ 1536	$[16, 8, 4, 3, 1^{12}]$	
[8, 4, 3, 1]	$1T_1, 3T_1^{+*}, 4T_4^{+*}, 8T_{33}^{+*}$	$16T_{1655}^{+*}$ 6144	$[16, 8, 4^2, 3, 1^{11}]$	
[8, 4, 3, 1]	$1T_1, 3T_1^{+*}, 4T_4^{+*}, 8T_{33}^{+*}$	$16T_{1681}^{+*}$ 6144	$[16, 8, 4^2, 3, 1^{11}]$	
[8, 4, 3, 1]	$\begin{array}{c} 1T_1,\ 3T_2^{+*},\ 4T_4^{+*},\ 8T_{33}^{+*}\\ 1T_1,\ 3T_1^{+*},\ 4T_4^{+*},\ 8T_{34}^{+*}\\ 1T_1,\ 3T_1^{+*},\ 4T_1^{+*},\ 8T_2^{+*}\\ 1T_1,\ 3T_1^{+*},\ 8T_2^{+*}\\ 1T_1,\ 3T_1^{+*},\ 4T_1^{+*},\ 8T_2^{+*}\\ 1T_1,\ 3T_1^{+*},\ 4T_1^{+*},\ 8T_2^{+*}\\ 1T_1,\ 3T_1^{+*},\ 8T_2^{+*}\\ 1T_1,\ 3T_1^{+*},\ 8T_2^{+*}$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$[16, 8, 4^2, 3^2, 1^{10}]$	
[8, 4, 3, 1]	$1I_1, 3I_1, 4I_4, 8I_{34}$	$16T_{1793}$ $18432$	$[16, 8, 4^2, 3^2, 1^{10}]$	
[8, 4, 3, 1]	111, 311, 414, 8142	$16T_{1853}^{+*}$ 55296	$[16, 8, 4^2, 3^3, 1^9]$	
[8, 4, 3, 1]	$1T_1, 3T_1^{+*}, 4T_4^{+*}, 8T_{42}^{+*}$	$16T_{1857}^{+*}$ 55296	$[16, 8, 4^2, 3^3, 1^9]$	
[8, 4, 3, 1]	$1T_1, 3T_1^{+*}, 4T_4^{+*}, 8T_{42}^{+*}$	$16T_{1890}^{+*}$ $165888$	$[16, 8, 4^2, 3^4, 1^8]$	
[8, 4, 3, 1]	$1T_1, 3T_2^*, 4T_5^*, 8T_{14}^{+*}$	$16T_{761}^{+*}$ 384	$[16, 4, 3, 2, 1^{12}]$	
[8, 4, 3, 1]	$1T_1, 3T_2^*, 4T_5^*, 8T_{33}^{+*}$	$16T_{1796}^{+*}$ 18432	$[16, 4^3, 3^2, 2, 1^9]$	
[8, 4, 3, 1]	$1T_1, 3T_2^*, 4T_5^*, 8T_{34}^{+*}$	$16T_{1919}^{+*}$ 1536	$[16, 4^2, 3, 2, 1^{11}]$	
[8, 4, 3, 1]	$1T_1, 3T_2^*, 4T_5^*, 8T_{24}^{+*}$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$[16, 4^2, 3, 2, 1^{11}]$	
[8, 4, 3, 1]	$1T_1, 3T_2^*, 4T_5^*, 8T_{34}^{+*}$ $1T_1, 3T_2^*, 4T_5^*, 8T_{34}^{+*}$ $1T_1, 3T_2^*, 4T_5^*, 8T_{34}^{+*}$ $1T_1, 3T_2^*, 4T_5^*, 8T_{34}^{+*}$	$16T_{1673}^{+*}$ 6144	$[16, 4^3, 3, 2, 1^{10}]$	
[8, 4, 3, 1]	$1T_1, 3T_2^*, 4T_5^*, 8T_{34}^{+*}$	$16T_{1684}^{+*}$ 6144	$[16, 4^3, 3, 2, 1^{10}]$	
[8, 4, 3, 1]	$1T_1, 3T_2^*, 4T_5^*, 8T_{34}^{+*}$	$16T_{1795}^{+*}$ 18432	$[16, 4^3, 3^2, 2, 1^9]$	
[8, 4, 3, 1]	$1T_1, 3T_2^*, 4T_5^*, 8T_{41}^{+*}$	$16T_{1519}^{+*}$ 3072	$[16, 8, 4, 3, 2, 1^{11}]$	
[8, 4, 3, 1]	$1T_1, 3T_2^*, 4T_5^*, 8T_{41}^{+*}$	$16T_{1756}^{+*}$ 12288	$[16, 8, 4^2, 3, 2, 1^{10}]$	
[8, 4, 3, 1]	$1T_1, 3T_2^*, 4T_5^*, 8T_{41}^{+*}$	$16T_{1826}^{+*}$ 36864	$[16, 8, 4^2, 3^2, 2, 1^9]$	
[8, 4, 3, 1]	$1T_1, 3T_2^*, 4T_5^*, 8T_{41}^{+*}$	$16T_{1827}^{+*}$ 36864	$[16, 8, 4^2, 3^2, 2, 1^9]$	
[8, 4, 3, 1]	$1T_1, 3T_2^*, 4T_5^*, 8T_{41}^{+*}$	$16T_{1828}^{+*}$ 36864	$[16, 8, 4^2, 3^2, 2, 1^9]$	
[8, 4, 3, 1]	$1T_1, 3T_2^*, 4T_5^*, 8T_{41}^{+*}$	$16T_{1829}^{+*}$ 36864	$[16, 8, 4^2, 3^2, 2, 1^9]$	
[8, 4, 3, 1]	$1T_1, 3T_2^*, 4T_5^*, 8T_{41}^{+*}$	$16T_{1864}^{+*}$ 73728	$[16, 8, 4^2, 3^2, 2^2, 1^8]$	
[8, 4, 3, 1]	$1T_1, 3T_2^*, 4T_5^*, 8T_{42}^{+*}$	$16T_{1856}^{+*}$ 55296	$[16, 4^3, 3^3, 2, 1^8]$	
[8, 4, 3, 1]	$1T_1$ , $3T_2^*$ , $4T_1^*$ , $8T_2^{+*}$	$ \begin{array}{rrr} 16T_{1856}^{+*} & 55296 \\ 16T_{1858}^{+*} & 55296 \\ 16T_{1897}^{+*} & 165888 \end{array} $	$[16, 4^3, 3^3, 2, 1^8]$	
[8, 4, 3, 1]	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$16T_{1897}^{+*}$ $165888$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
[8, 4, 3, 1]	$1T_1, 3T_2^*, 4T_5^*, 8T_{45}^{+*}$	$16T_{1833}^*$ $36864$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
[8, 4, 3, 1]	$1T_1, 3T_2, 1T_5, 8T_{45}$ $1T_1, 3T_2^*, 4T_5^*, 8T_{45}^{+*}$	$16T_{1833}^{+*}$ $36667$ $16T_{1880}^{+*}$ $110592$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
[8, 4, 3, 1]	$1T_1, 3T_2, 4T_5, 8T_{45}^{+*}$ $1T_1, 3T_2^*, 4T_5^*, 8T_{45}^{+*}$	$16T_{1880}^{+*}$ $16032$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
[8, 4, 3, 1]	$1T_1, 3T_2, 4T_5, 8T_{45}^{+*}$ $1T_1, 3T_2^*, 4T_5^*, 8T_{45}^{+*}$	$16T_{1909}^{+*}$ $331776$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
[8, 4, 3, 1]	$1T_1, 3T_2, 4T_5, 8T_{45}$ $1T_1, 3T_2^*, 4T_5^*, 8T_{45}^{+*}$	$16T_{1910}^*$ $331776$ $16T_{1913}^*$ $331776$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$   \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$1T_1, 3T_2, 4T_5, 8T_{45}$ $1T_1, 3T_2^*, 4T_5^*, 8T_{45}^{+*}$		$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
		1310		
$G$ : Possible Galois Groups, $D(G)$ : Degrees of factors, $S(G)$ : Galois Groups of factors, $\mathcal{L}(G)$ : Initial Degrees				

Splitting table of degree 16

D(G)	S(G)	G   G	$\mathcal{L}(G)$	
[8, 4, 3, 1]	$1T_1, 3T_2^*, 4T_5^*, 8T_{45}^{+*}$	$16T_{1923}^{+*}$ $663552$	$[16, 8, 4^2, 3^4, 2^2, 1^6]$	
[8, 4, 3, 1]	$1T_1, 3T_2, 4T_5, 8T_{45}$ $1T_1, 3T_2^*, 4T_5^*, 8T_{45}^{+*}$		$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$     \begin{bmatrix}       0, 4, 3, 1 \\       \hline       [8, 4, 3, 1]     \end{bmatrix}   $		$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$[16, 4, 3, 2, 1]$ $[16, 8, 4^2, 3^4, 2^2, 1^6]$	
$     \begin{bmatrix}       0, 4, 3, 1 \\       \hline       [8, 4, 3, 1]     \end{bmatrix}   $	$1T_1, 3T_2^*, 4T_5^*, 8T_{46}^*$	$\begin{array}{ccc} & 1324 \\ 16T_{1922}^{+} & 663552 \\ & 16T_{1928}^{+*} & 663552 \\ & 16T_{1931}^{+*} & 1327104 \\ & & & & & & & & & & & \\ \end{array}$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
	$1T_1, 3T_2^*, 4T_5^*, 8T_{46}^*$	$10I_{1928}                                    $		
[8, 4, 3, 1]	$1T_1, 3T_2^*, 4T_5^*, 8T_{47}^*$	$16T_{1931}^{+*}$ $1327104$	$[16, 8, 4^2, 3^4, 2^3, 1^5]$	
[8, 4, 3, 1]	$1T_1, 3T_2^*, 4T_5^*, 8T_{47}^*$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$[16, 8, 4^2, 3^4, 2^3, 1^5]$	
[8, 4, 3, 1]	$1T_1, 3T_2^*, 4T_5^*, 8T_{47}^*$	16T* 1327104	$[16, 8, 4^2, 3^4, 2^3, 1^5]$	
[8, 4, 3, 1]	$1T_1, 3T_2^*, 4T_5^*, 8T_{47}^*$	16T* 1327104	$[16, 8, 4^2, 3^4, 2^3, 1^5]$	
[8, 4, 3, 1]	$1T_1, 3T_2^*, 4T_5^*, 8T_{47}^*$	$16T^*_{1939}$ $2654208$	$[16, 8, 4^2, 3^4, 2^4, 1^4]$	
$[6^2, 3, 1]$	$1T_1, 3T_1^{+*}, (6T_1^*)^2$	16T <sub>183</sub> <sup>+*</sup> 96	$[16, 3, 2, 1^{13}]$	
$[6^2, 3, 1]$	$1T_1, 3T_1^{+*}, (6T_1^*)^2$	$16T_{184}^{+*}$ 96	$[16, 3, 2, 1^{13}]$	
$[6^2, 3, 1]$	$1T_1, 3T_1^{+*}, (6T_1^*)^2$	$16T_{185}^{+*}$ 96	$[16, 3, 2, 1^{13}]$	
$[6^2, 3, 1]$	$1T_1, 3T_2^*, (6T_3^*)^2$	$16T_{431}^{+*}$ 192	$[16, 3, 2^2, 1^{12}]$	
$[6^2, 3, 1]$	$1T_1, 3T_2^*, (6T_3^*)^2$	$16T_{436}^{+*}$ 192	$[16, 3, 2^2, 1^{12}]$	
[12, 3, 1]	$1T_1, 3T_1^{+*}, 12T_2^{+*}$	$16T_{419}^{+*}$ 192	$[16, 4, 3, 1^{13}]$	
[12, 3, 1]	$1T_1, 3T_1^{+*}, 12T_2^{+*}$	$16T_{420}^{+*}$ 192	$[16, 4, 3, 1^{13}]$	
[12, 3, 1]	$1T_1, 3T_1^{+*}, 12T_4^{+*}$	$16T_{440}^{+*}$ 192	$[16, 4, 3, 1^{13}]$	
[12, 3, 1]	$1T_1, 3T_1^{+*}, 12T_2^{+*}$ $1T_1, 3T_1^{+*}, 12T_2^{+*}$ $1T_1, 3T_1^{+*}, 12T_2^{+*}$ $1T_1, 3T_1^{+*}, 12T_4^{+*}$ $1T_1, 3T_1^{+*}, 12T_6^{+*}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$[16, 4, 3, 2, 1^{12}]$	
[12, 3, 1]	$11_1, 31_1, 121_6$	$16T_{769}^{+*}$ 384	$[16, 4, 3, 2, 1^{12}]$	
[12, 3, 1]	$1T_1, 3T_1^{+*}, 12T_{20}^{+*}$	$16T_{1029}^{+*}$ 576	$[16, 12, 3, 1^{13}]$	
[12, 3, 1]	$1T_1, 3T_1^{+*}, 12T_{26}^{+*}$	$16T_{1042}^{+*}$ 768	$[16, 4^2, 3, 1^{12}]$	
[12, 3, 1]	$1T_1, 3T_1^{+*}, 12T_{26}^{+*}$	$16T_{1059}^{+*}$ 768	$[16, 4^2, 3, 1^{12}]$	
[12, 3, 1]	$1T_1, 3T_1^{+*}, 12T_{85}^{+*}$	$16T_{-}^{+*}$ 2304	$[16, 12, 4, 3, 1^{12}]$	
[12, 3, 1]	$1T_1, 3T_1^{+*}, 12T_{90}^{+*}$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$[16, 4^3, 3, 1^{11}]$	
[12, 3, 1]	$1T_1$ , $3T_1^{+*}$ , $12T_{128}^{+*}$	$16T_{1649}^{+*}$ 4608	$[16, 12, 8, 3, 1^{12}]$	
[12, 3, 1]	$1T_1, 3T_1^{+*}, 12T_{164}^{+*}$ $1T_1, 3T_1^{+*}, 12T_{206}^{+*}$	$16T_{1749}^{+*}$ 9216	$[16, 12, 4^2, 3, 1^{11}]$	
[12, 3, 1]	$1T_1, 3T_1^{+*}, 12T_{206}^{+*}$	$16T_{1789}^{+*}$ 18432	[16, 12, 8, 4, 3, 1 <sup>11</sup> ]	
[12, 3, 1]	$1T_1, 3T_1^{+*}, 12T_{265}^{+*}$	$16T_{1876}^{+*}$ 82944	$[16, 12, 4^2, 3^3, 1^9]$	
[12, 3, 1]	$1T_1, 3T_1^{+*}, 12T_{265}^{+*}$	$16T_{1877}^{+*}$ 82944	$[16, 12, 4^2, 3^3, 1^9]$	
[12, 3, 1]	$1T_1, 3T_1^{+*}, 12T_{265}^{+*}$	$16T_{1904}^{+*}$ 248832	$[16, 12, 4^2, 3^4, 1^8]$	
[12, 3, 1]	$1T_1, 3T_1^{+*}, 12T_{275}^{+*}$	$16T_{1901}^{+*}$ $165888$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
[12, 3, 1]	$1T_1, 3T_1^{+*}, 12T_{275}^{+*}$	$16T_{1918}^{+*}$ 497664	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
[12, 3, 1]	$1T_1, 3T_2^*, 12T_5^*$	$16T_{430}^{+*}$ 192	$[16, 3, 2^2, 1^{12}]$	
[12, 3, 1]	$1T_1, 3T_2^*, 12T_5^*$ $1T_1, 3T_2^*, 12T_5^*$	$16T_{433}^{+*}$ 192	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
[12, 3, 1]	$1T_1, 3T_2, 12T_5$ $1T_1, 3T_2^*, 12T_8^*$	$16T_{776}^{+*}$ 384	$[16, 4, 3, 2, 1^{12}]$	
[12, 3, 1]	$1T_1, 3T_2, 12T_8$ $1T_1, 3T_2^*, 12T_{13}^*$	$16T_{776}^{+*}$ $384$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
[12, 3, 1]	$1T_1, 3T_2, 12T_{13}$ $1T_1, 3T_2^*, 12T_{13}^*$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
[12, 3, 1] $[12, 3, 1]$		$16T_{1063}^{+*}$ $768$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
[12, 3, 1] $[12, 3, 1]$	$1T_1, 3T_2^*, 12T_{22}^*$	$16T_{1063}^{+*}$ $768$		
	$1T_1, 3T_2^*, 12T_{22}^*$	1010	$[16, 4, 3, 2^2, 1^{11}]$	
[12, 3, 1]	$1T_1, 3T_2^*, 12T_{27}^*$	16T <sub>1070</sub> <sup>+*</sup> 768	$[16, 4, 3, 2^2, 1^{11}]$	
[12, 3, 1]	$1T_1, 3T_2^*, 12T_{27}^*$	$16T_{1074}^{+*}$ 768	$[16, 4, 3, 2^2, 1^{11}]$	
[12, 3, 1]	$1T_1, 3T_2^*, 12T_{44}^*$	$16T_{1297}^{+*}$ 1152	$[16, 12, 3, 2, 1^{12}]$	
[12, 3, 1]	$1T_1, 3T_2^*, 12T_{49}^*$	$16T_{1314}^{+*}$ 1536	$[16, 4^2, 3, 2, 1^{11}]$	
[12, 3, 1]	$1T_1, 3T_2^*, 12T_{49}^*$	$16T_{1317}^{+*}$ 1536	$[16, 4^2, 3, 2, 1^{11}]$	
[12, 3, 1]	$1T_1, 3T_2^*, 12T_{127}^*$	$16T_{1652}^{+*}$ 4608	$[16, 12, 4, 3, 2, 1^{11}]$	
G: Poss	ible Galois Groups, $D(G)$ : Degrees	s of factors, $S(G)$ : Galois Grou	ups of factors, $\mathcal{L}(G)$ : Initial Degrees	
$\Rightarrow$				

Splitting table of degree 16

D(G)	S(G)	G   G	$\mathcal{L}(G)$
[12, 3, 1]	$1T_1, 3T_2^*, 12T_{129}^*$	$16T_{1650}^{+*}$ 4608	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
[12, 3, 1]	$1T_1, 3T_2, 12T_{129}$ $1T_1, 3T_2^*, 12T_{148}^*$	$16T_{1650}^{+*}$ $6144$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
[12, 3, 1]		$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
[12, 3, 1]		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
[12, 3, 1]	$1I_1, 3I_2, 12I_{204}$	$16T_{1797}^{+*}$ $18432$	
	$1T_1, 3T_2^*, 12T_{205}^*$	101 <sub>1790</sub> 10452	$[16, 12, 4^2, 3, 2, 1^{10}]$
[12, 3, 1]	$1T_1, 3T_2^*, 12T_{239}^*$	16T <sub>1834</sub> <sup>+*</sup> 36864	$[16, 12, 8, 4, 3, 2, 1^{10}]$
[12, 3, 1]	$1T_1, 3T_2^*, 12T_{253}^*$	$16T_{1859}^{+*}$ 55296	$[16, 12, 4^2, 3^2, 2, 1^9]$
[12, 3, 1]	$1T_1, 3T_2^*, 12T_{268}^*$	$16T_{1881}^*$ $110592$	$[16, 12, 4^2, 3^2, 2^2, 1^8]$
[12, 3, 1]	$1T_1, 3T_2^*, 12T_{273}^*$	16T <sub>1895</sub> 165888	$[16, 12, 4^2, 3^3, 2, 1^8]$
[12, 3, 1]	$1T_1, 3T_2^*, 12T_{273}^*$	16T <sub>1917</sub> 497664	$[16, 12, 4^2, 3^4, 2, 1^7]$
[12, 3, 1]	$1T_1, 3T_2^*, 12T_{273}^*$	16T <sub>1919</sub> <sup>+*</sup> 497664	$[16, 12, 4^2, 3^4, 2, 1^7]$
[12, 3, 1]	$1T_1, 3T_2^*, 12T_{276}^*$	16T <sub>1899</sub> 165888	$[16, 12, 4^2, 3^3, 2, 1^8]$
[12, 3, 1]	$1T_1, 3T_2^*, 12T_{276}^*$	$16T_{1900}^{+*}$ $165888$	$[16, 12, 4^2, 3^3, 2, 1^8]$
[12, 3, 1]	$1T_1, 3T_2^*, 12T_{276}^*$	$16T_{1920}^{+*}$ 497664	$[16, 12, 4^2, 3^4, 2, 1^7]$
[12, 3, 1]	$1T_1, 3T_2^*, 12T_{283}^*$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$[16, 12, 8, 4, 3^3, 2, 1^8]$
[12, 3, 1]	$1T_1, 3T_2^*, 12T_{283}^*$ $1T_1, 3T_2^*, 12T_{283}^*$	$16T_{1929}^{+*}$ 995328	$ \begin{array}{c} [16, 12, 8, 4, 3^4, 2, 1^7] \\ [16, 12, 4^2, 3^4, 2^2, 1^6] \end{array} $
[12, 3, 1]	$1T_1, 3T_2^*, 12T_{283}^*$	$16T^*_{1930}$ 995328	$[16, 12, 4^2, 3^4, 2^2, 1^6]$
[12, 3, 1]	$1T_1, 3T_2^*, 12T_{292}^*$	$16T_{1937}^{+*}$ 1990656	$[16, 12, 4^2, 3^4, 2^3, 1^5]$
[12, 3, 1]	$1T_1, 3T_2^*, 12T_{292}^*$	101 <sub>1941</sub> 3931312	$[16, 12, 4^2, 3^4, 2^4, 1^4]$
[12, 3, 1]	$1T_1, 3T_2^*, 12T_{294}^*$	$16T_{1942}^{+*}$ 3981312	$[16, 12, 8, 4, 3^4, 2^3, 1^5]$
[12, 3, 1]	$1T_1, 3T_2^*, 12T_{294}^*$	$16T^*_{1943}$ 3981312	$[16, 12, 8, 4, 3^4, 2^3, 1^5]$
[12, 3, 1]	$1T_1, 3T_2^*, 12T_{294}^*$	$16T^*_{1947}$ $7962624$	$[16, 12, 8, 4, 3^4, 2^4, 1^4]$
$[5^3, 1]$	$1T_1, (5T_1^{+*})^3$	$16T_{178}^{+*}$ 80	$[16, 5, 1^{14}]$
$[5^3, 1]$	$1T_1, (5T_2^{+*})^3$	$16T_{415}^{+*}$ 160	$[16, 5, 2, 1^{13}]$
[10, 5, 1]	$1T_1, 5T_3^*, 10T_4^*$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$[16, 10, 2, 1^{13}]$
[10, 5, 1]	$1T_1, 5T_4^+, 10T_7^+$	$16T_{1081}^{+}$ 960	$[16, 6, 5, 2, 1^{12}]$
[10, 5, 1]	$1T_1, 5T_5, 10T_{13}$	$16T_{1328}^{+}$ 1920	$[16, 6, 5, 2^2, 1^{11}]$
[9, 6, 1]	$1T_1, 6T_5^*, 9T_4^*$	$16T_{708}^{+*}$ 288	$[16, 9, 2, 1^{13}]$
[9, 6, 1]	$1T_1, 6T_9^*, 9T_8^*$	$16T_{1034}^{+*}$ 576	$[16, 9, 2^2, 1^{12}]$
[9, 6, 1]	$1T_1, 6T_{10}^{+*}, 9T_9^{+*}$	$16T_{1030}^{+*}$ 576	$[16, 9, 4, 1^{13}]$
[9, 6, 1]	$1T_1, 6T_{13}^*, 9T_{16}^*$	$101_{1294}$ $1102$	$[16, 9, 4, 2, 1^{12}]$
[8, 7, 1]	$1T_1, 7T_1^{+*}, 8T_{25}^{+*}$	$16T_{1075}^{+*}$ 896	$[16, 8, 7, 1^{13}]$
[8, 7, 1]	$1T_1, 7T_1^{+*}, 8T_{25}^{+*}$	$16T_{1078}^{+*}$ 896	$[16, 8, 7, 1^{13}]$
[8, 7, 1]	$1T_1, 7T_1^{+*}, 8T_{25}^{+*}$	$16T_{1693}^{+*}$ 6272	$[16, 8, 7^2, 1^{12}]$
[8, 7, 1]	$1T_1, 7T_3^{+*}, 8T_{36}^{+*}$	$16T_{1501}^{+*}$ 2688	$[16, 8, 7, 3, 1^{12}]$
[8, 7, 1]	$1T_1, 7T_3^{+*}, 8T_{36}^{+*}$	$16T_{1502}^{+*}$ 2688	$[16, 8, 7, 3, 1^{12}]$
[8, 7, 1]	$1T_1, 7T_3^{+*}, 8T_{36}^{+*}$	$16T_{1798}^{+*}$ 18816	$[16, 8, 7^2, 3, 1^{11}]$
[8, 7, 1]	$1T_1, 7T_3^{+*}, 8T_{36}^{+*}$ $1T_1, 7T_3^{+*}, 8T_{36}^{+*}$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$[16, 8, 7^2, 3, 1^{11}]$
[8, 7, 1]	$1T_1, 7T_3^{+*}, 8T_{36}^{+*}$	$16T_{1860}^{+*}$ 56448	$[16, 8, 7^2, 3^2, 1^{10}]$
[8, 7, 1]	$1T_1, 7T_3^{+*}, 8T_{37}^+$	$16T_{1861}^{+}$ 56448	$[16, 8, 7^2, 3^2, 1^{10}]$
[8, 7, 1]	$1T_1, 7T_4^*, 8T_{43}$	$16T_{1882}$ $112896$	$[16, 8, 7^2, 6, 3, 1^{10}]$
[8, 7, 1]	$1T_1, 7T_4^*, 8T_{43}$	$16T_{1883}^{+}$ 112896	$[16, 8, 7^2, 6, 3, 1^{10}]$
[8, 7, 1]	$1T_1, 7T_4^*, 8T_{43}$	$16T_{1903}$ 225792	$[16, 8, 7^2, 6^2, 1^{10}]$
[8, 7, 1]	$1T_1, 7T_5^+, 8T_{37}^+$	$16T_{1505}^{+}$ 2688	$[16, 7, 6, 4, 1^{12}]$
[8, 7, 1]	$1T_1, 7T_5^+, 8T_{48}^+$	$16T_{1801}^{+}$ 21504	$[16, 8, 7, 6, 4, 1^{11}]$
G: Poss	ible Galois Groups, $D(G)$ : Degrees	s of factors, $S(G)$ : Galois Grou	ps of factors, $\mathcal{L}(G)$ : Initial Degrees

D/O	Q(Q)			<b>a</b> (a)
D(G)	S(G)	G	$\mid G \mid$	$\mathcal{L}(G)$
[8, 7, 1]	$1T_1, 7T_5^+, 8T_{48}^+$	$16T_{1802}^{+}$	21504	$[16, 8, 7, 6, 4, 1^{11}]$
[8, 7, 1]	$1T_1, 7T_5^+, 8T_{48}^+$	$16T_{1940}^{+}$	3612672	$[16, 8, 7^2, 6^2, 4^2, 1^8]$
[8, 7, 1]	$1T_1, 7T_6^+, 8T_{49}^+$	$16T_{1949}^{+}$	812851200	$[16, 8, 7^2, 6^2, 5^2, 4^2, 3^2, 1^4]$
[8, 7, 1]	$1T_1, 7T_7, 8T_{50}$	$16T_{1950}$	1625702400	$[16, 8, 7^2, 6^2, 5^2, 4^2, 3^2, 2, 1^3]$
[8, 7, 1]	$1T_1, 7T_7, 8T_{50}$	$16T_{1951}^{+}$	1625702400	$[16, 8, 7^2, 6^2, 5^2, 4^2, 3^2, 2, 1^3]$
[8, 7, 1]	$1T_1, 7T_7, 8T_{50}$	$16T_{1952}$	3251404800	$[16, 8, 7^2, 6^2, 5^2, 4^2, 3^2, 2^2, 1^2]$
[15, 1]	$1T_1, 15T_1^{+*}$	$16T_{447}^{+*}$	240	$[16, 15, 1^{14}]$
[15, 1]	$1T_1, 15T_3^{+*}$	$16T_{777}^{+*}$	480	$[16, 15, 2, 1^{13}]$
[15, 1]	$1T_1, 15T_5^+$	$16T_{1080}^{+}$	960	$[16, 15, 4, 1^{13}]$
[15, 1]	$1T_1, 15T_6^{+*}$	$16T_{1079}^{+*}$	960	$[16, 15, 2^2, 1^{12}]$
[15, 1]	$1T_1, 15T_{10}^+$	$16T_{1329}^{+}$	1920	$[16, 15, 4, 2, 1^{12}]$
[15, 1]	$1T_1, 15T_{15}^+$	$16T_{1508}^{+}$	2880	$[16, 15, 12, 1^{13}]$
[15, 1]	$1T_1, 15T_{20}^+$	$16T_{1654}^{+}$	5760	$[16, 15, 6, 4, 1^{12}]$
[15, 1]	$1T_1, 15T_{21}^+$	$16T_{1653}^{+}$	5760	$[16, 15, 12, 2, 1^{12}]$
[15, 1]	$1T_1, 15T_{28}^+$	$16T_{1753}^{+}$	11520	$[16, 15, 6, 4, 2, 1^{11}]$
[15, 1]	$1T_1, 15T_{47}^+$	$16T_{1840}^{+}$	40320	$[16, 15, 14, 12, 1^{12}]$
[15, 1]	$1T_1, 15T_{72}^+$	$16T_{1906}^{+}$	322560	$[16, 15, 14, 12, 8, 1^{11}]$
[15, 1]	$1T_1, 15T_{103}^+$	$16T_{1953}^{+}$	16! / 2	$[16, \ldots, 3, 1^2]$
[15, 1]	$1T_1, 15T_{104}$	$16T_{1954}$	16!	$[16, \ldots, 1]$
G: Poss	ible Galois Groups, $D(G)$ : Degrees o	of factors, $S($	G): Galois Group	es of factors, $\mathcal{L}(G)$ : Initial Degrees

Splitting table of degree 17

D(G)	S(G)	G	$\mid G \mid$	$\mathcal{L}(G)$
$[1^{17}]$	$(1T_1)^{17}$	$17T_1^{+*}$	17	$[17, 1^{16}]$
$[2^8, 1]$	$1T_1, (2T_1)^8$	$17T_2^{+*}$	34	$[17, 2, 1^{15}]$
$[4^4, 1]$	$1T_1, (4T_1^*)^4$	$17T_3^{+*}$	68	$[17, 4, 1^{15}]$
$[8^2, 1]$	$1T_1, (8T_1^*)^2$	$17T_4^{+*}$	136	$[17, 8, 1^{15}]$
[16, 1]	$1T_1, 16T_1^*$	$17T_{5}^{*}$	272	$[17, 16, 1^{15}]$
[16, 1]	$1T_1, 16T_{447}^{+*}$	$17T_{6}^{+}$	4080	$[17, 16, 15, 1^{14}]$
[16, 1]	$1T_1, 16T_{777}^{+*}$	$17T_{7}^{+}$	8160	$[17, 16, 15, 2, 1^{13}]$
[16, 1]	$1T_1, 16T_{1079}^{+*}$	$17T_{8}^{+}$	16320	$[17, 16, 15, 4, 1^{13}]$
[16, 1]	$1T_1, 16T_{1953}^+$	$17T_{9}^{+}$	17! / 2	$[17, \ldots, 3, 1^2]$
[16, 1]	$1T_1, 16T_{1954}$	$17T_{10}$	17!	$[17,\ldots,1]$
G: Possibl	e Galois Groups, 1	D(G): Degr	ees of fact	ors, $S(G)$ : Galois Groups of factors, $\mathcal{L}(G)$ : Initial Degrees

Splitting table of degree 18

D(G)	S(G)	G   G	$\mathcal{L}(G)$	
$[1^{18}]$	$(1T_1)^{18}$	$18T_1^*$ 18	$[18, 1^{17}]$	
$[1^{18}]$	$(1T_1)^{18}$	$18T_2^*$ 18	$[18, 1^{17}]$	
$\begin{bmatrix} 1^{18} \end{bmatrix}$	$(1T_1)^{18}$ $(1T_1)^{18}$	$18T_3^*$ 18	$[18, 1^{17}]$	
[1 <sup>18</sup> ]	$(1T_1)^{18}$	$18T_4^*$ 18	[18, 1]	
$\begin{bmatrix} 1^{18} \end{bmatrix}$	$(1T_1)^{18}$	$18T_{5}^{*}$ 18	[18, 1 <sup>17</sup> ]	
	(111)	1015 10	[10, 1 ]	
$[3^3, 1^9]$	$ \begin{array}{c} (1T_1)^9, \ (3T_1^{+*})^3 \\ (1T_1)^9, \ (3T_1^{+*})^3 \end{array} $	$18T_{16}^{*}$ 54	[18, 3, 1 <sup>16</sup> ]	
$[3^3, 1^9]$	$(11_1)^{\circ}, (31_1)^{\circ}$	$18T_{17}^*$ 54	[18, 3, 1 <sup>16</sup> ]	
$[3^3, 1^9]$	$(1T_1)^9, (3T_1^{+*})^3$	$18T_{19}^*$ 54	$[18, 3, 1^{16}]$	
$[3^3, 1^9]$	$(1T_1)^9, (3T_1^{+*})^3$	$18T_{23}^*$ 54	$[18, 3, 1^{16}]$	
$[9, 1^9]$	$(1T_1)^9, 9T_1^{+*}$	$18T_{74}^*$ 162	$[18, 9, 1^{16}]$	
$[9, 1^9]$	$\begin{array}{c} (1T_1)^9, \ 9T_2^{+*} \\ (1T_1)^6, \ (2T_1)^6 \end{array}$	$18T_{79}^*$ 162	$[18, 9, 1^{16}]$	
$[2^6, 1^6]$	$(1T_1)^6, (2T_1)^6$	$18T_6^*$ 36	$ \begin{array}{c} [18, 2, 1^{16}] \\ [18, 2, 1^{16}] \end{array} $	
$[2^6, 1^6]$	$+ (1T_{1})^{0} (2T_{1})^{0}$	$18T_7^{+*}$ 36	$[18, 2, 1^{16}]$	
$[2^6, 1^6]$	$(1T_1)^6, (2T_1)^6$	$18T_8^{+*}$ 36	$[18, 2, 1^{16}]$	
$[2^6, 1^6]$	$(1T_1)^6, (2T_1)^6$ $(1T_1)^6, (2T_1)^6$ $(1T_1)^6, (2T_1)^6$ $(1T_1)^6, (2T_1)^6$ $(1T_1)^6, (2T_1)^6$	$ \begin{array}{ccc} 18T_{7}^{++} & 36 \\ 18T_{8}^{++} & 36 \\ 18T_{11}^{+} & 36 \end{array} $	$ \begin{array}{c cccc} [18, 2, 1^{16}] \\ [18, 2, 1^{16}] \\ [18, 2^2, 1^{15}] \\ [18, 2^2, 1^{15}] \end{array} $	
$[2^6, 1^6]$	$(1T_1)^6$ , $(2T_1)^6$	$18T_{25}^{*}$ 72	$[18, 2^2, 1^{15}]$	
$[2^6, 1^6]$	$(1T_1)^6, (2T_1)^6$	$18T_{26}^{*}$ 72	$[18, 2^2, 1^{15}]$	
$[3^4, 1^6]$	$(1T_1)^6, (2T_1)^6$ $(1T_1)^6, (2T_1)^6$ $(1T_1)^6, (2T_1)^6$ $(1T_1)^6, (2T_1)^6$ $(1T_1)^6, (3T_1^{+*})^4$ $(1T_1)^6, (3T_1^{+*})^4$ $(1T_1)^6, (3T_1^{+*})^4$ $(1T_1)^6, (3T_1^{+*})^4$	$18T_{14}^{*}$ 54	[18, 3, 1 <sup>16</sup> ] [18, 3, 1 <sup>16</sup> ]	
$[3^4, 1^6]$	$(1T_1)^6$ , $(3T_1^{+*})^4$	$18T_{15}^{*}$ 54	$[18, 3, 1^{16}]$	
$[3^4, 1^6]$	$(1T_1)^6$ , $(3T_1^{+*})^4$	$18T_{18}^{*}$ 54	$   \begin{bmatrix}     18, 3, 1^{16} \\     \hline     18, 3, 1^{16}   \end{bmatrix} $	
$[3^4, 1^6]$	$(1T_1)^6$ , $(3T_1^{+*})^4$	$18T_{20}^{*}$ 54	[18, 3, 1 <sup>16</sup> ]	
$[3^4, 1^6]$	$(1T_1)^6$ , $(3T_1^{+*})^4$	$18T_{21}^*$ 54	$[18, 3, 1^{16}]$	
$[3^4, 1^6]$	$(1T_{*})^{6} (2T^{+*})^{4}$	$18T_{24}^*$ 54	$[18, 3, 1^{16}]$	
$[3^4, 1^6]$	$(171)^{6}, (371)^{6}$	$18T_{75}^*$ 162	[18, 32, 115]	
$[3^4, 1^6]$	$(1T_1)^6, (3T_1^{+*})^4$ $(1T_1)^6, (3T_1^{+*})^4$ $(1T_1)^6, (3T_1^{+*})^4$ $(1T_1)^6, (3T_1^{+*})^4$ $(1T_1)^6, (4T_1^{*})^3$ $(1T_1)^6, (4T_2^{**})^3$ $(1T_1)^6, (4T_3^{**})^3$ $(1T_1)^6, (4T_3^{**})^3$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c cccc} [18, 3^2, 1^{15}] \\ [18, 3^2, 1^{15}] \\ [18, 3^2, 1^{15}] \\ [18, 3^2, 1^{15}] \\ [18, 3^2, 1^{15}] \end{array} $	
$[3^4, 1^6]$	$(17)^6 (27^{+*})^4$	$18T_{86}^*$ $162$	[10, 0, 1]	
[3 , 1 ]	$(111)$ , $(31_1)$	101 <sub>86</sub> 102	[10, 0, 1]	
$[3^4, 1^6]$	$(1T_1)^6, (3T_1^{+*})^4$	$18T_{88}^*$ $162$	[10, 3-, 1]	
$[4^3, 1^6]$	$(11_1)^*, (41_1)^*$	$18T_{30}^{*}$ 72	$[18, 4, 1^{16}]$	
$[4^3, 1^6]$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$18T_{33}^{+*}$ 72	$[18, 4, 1^{16}]$	
$[4^3, 1^6]$	$(1T_1)^6, (4T_3^*)^6$	$18T_{61}^*$ 144	$[18, 4, 2, 1^{15}]$	
$[6^2, 1^6]$	(111), (011)	$18T_{47}^{+*}$ 108	$[18, 6, 1^{16}]$	
$[6^2, 1^6]$	$(1T_1)^6, (6T_1^*)^2$	$18T_{48}^{+*}$ 108	$ \begin{array}{c} [18, 6, 1^{16}] \\ [18, 6, 2, 1^{15}] \\ [18, 6, 2, 1^{15}] \\ [18, 6, 3, 1^{15}] \end{array} $	
$[6^2, 1^6]$	$(1T_1)^6, (6T_1^*)^2$	$18T_{91}^*$ 216	$[18, 6, 2, 1^{15}]$	
$[6^2, 1^6]$	$(1T_1)^6$ , $(6T_1^*)^2$	$18T_{92}^*$ 216	$[18, 6, 2, 1^{15}]$	
$[6^2, 1^6]$	$(1T_1)^6, (6T_1^*)^2$		$[18, 6, 3, 1^{15}]$	
$[6^2, 1^6]$	$(1T_1)^6, (6T_1^*)^2$	$18T_{188}^*$ 648	$[18, 6^2, 1^{15}]$	
$[6^2, 1^6]$	$(1T_1)^6, (6T_2^*)^2$	$18T_{52}^*$ 108	$[18, 6, 1^{16}]$	
$[6^2, 1^6]$	$(1T_1)^6, (6T_2^*)^2$	$18T_{57}^*$ 108	$[18, 6, 1^{16}]$	
$[6^2, 1^6]$	$(1T_1)^6, (6T_2^*)^2$	$18T_{143}^{+*}$ 324	$[18, 6, 3, 1^{15}]$	
$[6^2, 1^6]$	$(1T_1)^6, (6T_2^*)^2$	$18T_{207}^*$ 648	$[18, 6^2, 1^{15}]$	
$[6^2, 1^6]$	$(1T_1)^6, (6T_5^*)^2$	$18T_{119}^{*}$ 324	$[18, 6, 3, 1^{15}]$	
$[6^2, 1^6]$	$(1T_1)^6, (6T_5^*)^2$	$18T_{137}^{*}$ 324	$[18, 6, 3, 1^{15}]$	
$[12, 1^6]$	$(1T_1)^6$ , $12T_3^{+*}$	$18T_{108}^{+*}$ 216	$[18, 12, 1^{16}]$	
$[12, 1^6]$	$(1T_1)^6$ , $12T_5^*$	$18T_{107}^*$ 216	$[18, 12, 1^{16}]$	
$[12, 1^6]$	$(1T_1)^6$ , $12T_{15}^*$	$18T_{156}^*$ 432	$[18, 12, 2, 1^{15}]$	
		•		
$G$ : Possible Galois Groups, $D(G)$ : Degrees of factors, $S(G)$ : Galois Groups of factors, $\mathcal{L}(G)$ : Initial Degrees				

Splitting table of degree 18

D(G)	S(G)	$G \qquad  G $	$\mathcal{L}(G)$	
$[12, 1^6]$	$(1T_1)^6$ , $12T_{16}^{+*}$	$18T_{224}^{+*}$ 648	$[18, 12, 3, 1^{15}]$	
$[12, 1^6]$	$(1T_1)^6$ , $12T_{17}^*$ $(1T_1)^6$ , $12T_{18}^{+*}$	$18T_{221}^*$ 648	$[18, 12, 3, 1^{15}]$	
$[12, 1^6]$	$(1T_1)^6$ , $12T_{18}^{+*}$	$18T_{203}^{+*}$ 648	$[18, 12, 3, 1^{15}]$	
$[12, 1^6]$	$(1T_1)^6$ , $12T_{19}^*$	$18T_{208}^{*}$ 648	$[18, 12, 3, 1^{15}]$	
$[12, 1^6]$	$(1T_1)^6$ , $12T_{35}^*$	$18T_{314}^{*}$ 1296	$[18, 12, 6, 1^{15}]$	
$[12, 1^6]$	$(1T_1)^6, 12T_{42}^*$	$18T_{284}^*$ 1296	$[18, 12, 6, 1^{15}]$	
$[3^3, 2^3, 1^3]$	$(1T_1)^3, (2T_1)^3, (3T_2^*)^3$	$18T_{43}^*$ $108$	$[18, 3, 2, 1^{15}]$	
$[3^3, 2^3, 1^3]$	$(1T_1)^3$ , $(2T_1)^3$ , $(3T_2^*)^3$	$18T_{44}^{+*}$ $108$	[18, 3, 2, 1] $[18, 3, 2, 1]$	
$\begin{bmatrix} 3 & 2 & 1 \\ 3^3 & 2^3 & 1^3 \end{bmatrix}$	(111), $(211)$ , $(312)$	107* 100	[10, 0, 2, 1]	
$\begin{bmatrix} 3 & , 2 & , 1 \end{bmatrix}$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$18T_{53}^{*}$ $108$	$[18, 3, 2, 1^{15}]$	
$[3^3, 2^3, 1^3]$	$(1I_1)^*, (2I_1)^*, (3I_2)^*$	18T <sub>54</sub> <sup>+*</sup> 108	$[18, 3, 2, 1^{15}]$	
$[3^3, 2^3, 1^3]$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	18T** 216	$[18, 3, 2^2, 1^{14}]$	
$[3^3, 2^3, 1^3]$	$(1T_1)^3$ , $(2T_1)^3$ , $(3T_2^*)^3$	$18T_{103}^*$ 216	$[18, 3, 2^2, 1^{14}]$	
$[6, 3, 2^3, 1^3]$	$(1T_1)^3$ , $(2T_1)^3$ , $3T_1^{+*}$ , $6T_1^*$	$18T_{46}^*$ 108	$[18, 3, 2, 1^{15}]$	
$[9, 2^3, 1^3]$	$(1T_1)^3$ , $(2T_1)^3$ , $9T_4^*$	$18T_{120}^*$ 324	$[18, 9, 2, 1^{15}]$	
$[9, 2^3, 1^3]$	$(1T_1)^3, (2T_1)^3, 9T_4^*$	$18T_{123}^{+*}$ 324	$[18, 9, 2, 1^{15}]$	
$[9, 2^3, 1^3]$	$\begin{array}{c} (2T_1)^3, (2T_1)^3, 9T_4^* \\ (1T_1)^3, (2T_1)^3, 9T_4^* \\ (1T_1)^3, (2T_1)^3, 9T_4^* \\ (1T_1)^3, (2T_1)^3, 9T_4^* \end{array}$	$18T_{189}^{*}$ 648	$[18, 9, 2^2, 1^{14}]$	
$[3^5, 1^3]$	$(1T_1)^3, (3T_1^{+*})^5$	$18T_{22}^*$ 54	$[18, 3, 1^{16}]$	
$[3^5, 1^3]$	$(1T_1)^3, (3T_1^{+*})^5$	$\begin{array}{c} 18T_{224}^{++} & 648 \\ 18T_{221}^{++} & 648 \\ 18T_{203}^{++} & 648 \\ 18T_{208}^{++} & 648 \\ 18T_{314}^{*} & 1296 \\ 18T_{284}^{*} & 1296 \\ 18T_{43}^{*} & 108 \\ 18T_{44}^{++} & 108 \\ 18T_{53}^{++} & 108 \\ 18T_{53}^{++} & 108 \\ 18T_{103}^{++} & 216 \\ 18T_{103}^{*} & 216 \\ 18T_{120}^{*} & 324 \\ 18T_{120}^{++} & 324 \\ 18T_{123}^{++} & 324 \\ 18T_{189}^{++} & 648 \\ 18T_{22}^{*} & 54 \\ 18T_{76}^{++} & 162 \\ \end{array}$	$[18, 3^2, 1^{15}]$	
$[3^5, 1^3]$	$(1T_1)^3, (3T_1^{+*})^5$	$18T_{77}^{*}$ 162	$[18, 3^2, 1^{15}]$	
$[3^5, 1^3]$	$(1T_1)^3, (3T_1^{+*})^5$	$18T_{78}^{*}$ 162	$[18, 3^2, 1^{15}]$	
$[3^5, 1^3]$	$(1T_1)^3, (3T_1^{+*})^5$	$18T_{82}^{*}$ 162	$[18, 3^2, 1^{15}]$	
$[3^5, 1^3]$	$\begin{array}{cccc} (1T_1)^3, & (3T_1^{+*})^5 \\ (1T_1)^3, & (3T_1^{+*})^5 \end{array}$	$18T_{83}^*$ 162	$[18, 3^2, 1^{15}]$	
$[3^5, 1^3]$	$(1T_1)^3, (3T_1^{+*})^5$	$ \begin{array}{ccc} 18T_{83}^* & 162 \\ 18T_{84}^* & 162 \end{array} $	$ \begin{array}{c} [18, 3^2, 1^{15}] \\ [18, 3^2, 1^{15}] \end{array} $	
$[3^5, 1^3]$	$(1T_1)^3, (3T_1^{+*})^5$	$18T_{87}^*$ $162$	$[18, 3^2, 1^{15}]$	
$[3^5, 1^3]$	$(1T_1)^3, (3T_1^{+*})^5$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$[18, 3^2, 1^{15}]$	
$[3^5, 1^3]$	$(1T_1)^3, (3T_1^{+*})^5$	$18T_{159}^*$ $486$	$[18, 3^3, 1^{14}]$	
	$ \begin{array}{c} (1T_1)^3, (3T_1^{+*})^5 \\ (1T_1)^3, (3T_1^{+*})^5 \\ (1T_1)^3, (3T_1^{+*})^5 \end{array} $	$18T_{159}^{*}$ 486	[10, 9, 1]	
$[3^5, 1^3]$	$(1T_1)^3, (3T_1^{+*})^5$	101160 400	[18, 3 <sup>3</sup> , 1 <sup>14</sup> ]	
$[3^5, 1^3]$	$(1T_1)^3$ , $(3T_1^{+*})^5$	18T <sub>162</sub> 486	$[18, 3^3, 1^{14}]$	
$[3^5, 1^3]$	$(1T_1)^3$ , $(3T_1^{+*})^5$	18T** 486	$[18, 3^3, 1^{14}]$	
$[3^5, 1^3]$	$(1T_1)^3, (3T_1^{+*})^5$	$18T_{164}^{*}$ 486	$[18, 3^3, 1^{14}]$	
$[3^5, 1^3]$	$(1T_1)^3, (3T_1^{+*})^5$	$18T_{165}^{*}$ 486	$[18, 3^3, 1^{14}]$	
$[3^5, 1^3]$	$(1T_1)^3, (3T_1^{+*})^5$	$18T_{167}^*$ 486	$[18, 3^3, 1^{14}]$	
$[3^5, 1^3]$	$(1T_1)^3, (3T_1^{+*})^5$	$18T_{169}^*$ 486	$[18, 3^3, 1^{14}]$	
$[3^5, 1^3]$	$(1T_1)^3, (3T_1^{+*})^5$	$18T_{171}^*$ 486	[18, 3 <sup>3</sup> , 1 <sup>14</sup> ] [18, 3 <sup>3</sup> , 1 <sup>14</sup> ] [18, 3 <sup>3</sup> , 1 <sup>14</sup> ]	
$[3^5, 1^3]$	$(1T_1)^3, (3T_1^{+*})^5$	$18T_{172}^*$ 486	$[18, 3^3, 1^{14}]$	
$[3^5, 1^3]$	$(1T_1)^3, (3T_1^{+*})^5$	$18T_{323}^{*}$ 1458	$[18, 3^4, 1^{13}]$	
$[3^5, 1^3]$	$(1T_1)^3, (3T_1^{+*})^5$	$18T_{325}^{*}$ 1458	$[18, 3^4, 1^{13}]$	
$[3^5, 1^3]$	$(1T_1)^3, (3T_1^{+*})^5$	$18T_{327}^*$ 1458	$[18, 3^4, 1^{13}]$	
$[3^5, 1^3]$	$(1T_1)^3, (3T_1^{+*})^5$	$18T_{329}^{*}$ $1458$	$[18, 3^4, 1^{13}]$	
$[3^5, 1^3]$	$(1T_1)^3, (3T_1^{+*})^5$	$18T_{332}^*$ $1458$	$[18, 3^4, 1^{13}]$	
$[3^5, 1^3]$	$(1T_1)^3, (3T_1^{+*})^5$		$[18, 3^4, 1^{13}]$	
$[3, 1]$ $[3^5, 1^3]$	$(1T_1)^3, (3T_1)^5$	333	$[18, 3^5, 1^{-2}]$	
		100		
$[3^5, 1^3]$		18T** 4374		
$[6, 3^3, 1^3]$	$(1T_1)^3$ , $(3T_2^*)^3$ , $6T_2^*$	18T <sub>49</sub> <sup>+*</sup> 108	$[18, 3, 2, 1^{15}]$	
$[6, 3^3, 1^3]$	$(1T_1)^3, (3T_2^*)^3, 6T_2^*$	$18T_{56}^*$ 108	$[18, 3, 2, 1^{15}]$	
$G$ : Possible Galois Groups, $D(G)$ : Degrees of factors, $S(G)$ : Galois Groups of factors, $\mathcal{L}(G)$ : Initial Degrees				

Splitting table of degree 18

	I = ( = 2			
D(G)	S(G)	G	$\mid G \mid$	$\mathcal{L}(G)$
$[9, 3^2, 1^3]$	$(1T_1)^3$ , $(3T_1^{+*})^2$ , $9T_1^{+*}$	$18T_{80}^*$	162	$[18, 3^2, 1^{15}]$
$[9, 3^2, 1^3]$	$(1T_1)^3$ , $(3T_1^{+*})^2$ , $9T_2^{+*}$	$18T_{81}^*$	162	$[18, 3^2, 1^{15}]$
$[9, 3^2, 1^3]$	$(1T)^3 (2T+*)^2 0T+*$	$18T^*_{158}$	486	$[18, 9, 3, 1^{15}]$
$[9, 3^2, 1^3]$	$(1T_1)^3$ , $(3T_1^{+*})^2$ , $9T_6^{+*}$	$18T_{166}^*$	486	$[18, 9, 3, 1^{15}]$
$[9, 3^2, 1^3]$	$(1T_1)^3$ , $(3T_1^{+*})^2$ , $9T_6^{+*}$	$18T_{173}^{*}$ $18T_{174}^{*}$	486	$[18, 3^3, 1^{14}]$
$[9, 3^2, 1^3]$	$(1T_1)^3, (3T_1^{+*})^2, 9T_6^{+*}$	$18T_{174}^{*}$	486	$[18, 3^3, 1^{14}]$
$[9, 3^2, 1^3]$	$(1T_1)^3$ , $(3T_1^{+*})^2$ , $9T_6^{+*}$	187*	1458	$[18, 9, 3^2, 1^{14}]$
$[9, 3^2, 1^3]$	$(1T_1)^3$ , $(3T_1^{+*})^2$ , $9T_6^{+*}$	$18T_{324}^{*}$ $18T_{330}^{*}$	1458	$[18, 3^4, 1^{13}]$
$[9, 3^2, 1^3]$	$(1T_1)^3$ , $(3T_1^{+*})^2$ , $9T_6^{+*}$	18T*	1458	$[18, 3^4, 1^{13}]$
$[9, 3^2, 1^3]$	$(1T_1)^3$ , $(3T_1^{+*})^2$ , $9T_7^{+*}$	18T*	486	$[18, 9, 3, 1^{15}]$
$[9, 3^2, 1^3]$	$(1T_1)^3$ , $(3T_1^{+*})^2$ , $9T_7^{+*}$	18T*	486	$[18, 9, 3, 1^{15}]$
$[9, 3^2, 1^3]$	$\begin{array}{c} (1T_1) \ , \ (3T_1) \ , \ 9T_6 \\ \hline (1T_1)^3 , \ (3T_1^{+*})^2 , \ 9T_6^{+*} \\ \hline (1T_1)^3 , \ (3T_1^{+*})^2 , \ 9T_6^{+*} \\ \hline (1T_1)^3 , \ (3T_1^{+*})^2 , \ 9T_6^{+*} \\ \hline (1T_1)^3 , \ (3T_1^{+*})^2 , \ 9T_6^{+*} \\ \hline (1T_1)^3 , \ (3T_1^{+*})^2 , \ 9T_6^{+*} \\ \hline (1T_1)^3 , \ (3T_1^{+*})^2 , \ 9T_6^{+*} \\ \hline (1T_1)^3 , \ (3T_1^{+*})^2 , \ 9T_7^{+*} \\ \hline (1T_1)^3 , \ (3T_1^{+*})^2 , \ 9T_7^{+*} \\ \hline (1T_1)^3 , \ (3T_1^{+*})^2 , \ 9T_7^{+*} \\ \hline (1T_1)^3 , \ (3T_1^{+*})^2 , \ 9T_7^{+*} \\ \hline (1T_1)^3 , \ (3T_1^{+*})^2 , \ 9T_7^{+*} \\ \hline \end{array}$	$ \begin{array}{c}     330 \\     18T_{331}^* \\     18T_{161}^* \\     18T_{168}^* \\     18T_{170}^* \\     18T_{326}^* \end{array} $	486	$[18, 3^3, 1^{14}]$
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$(1T_1)^3$ , $(3T_1^{+*})^2$ , $9T_7^{+*}$	101170	1458	$[18, 3^4, 1^{13}]$
[9, 3, 1]	$(1T_1)^3$ , $(3T_1^{+*})^2$ , $9T_7^{+*}$	101326		[10, 0, 1, 1]
$[9, 3^2, 1^3]$	$(1T_1)^3$ , $(3T_1^{+*})^2$ , $9T_7^{+*}$	18T**	1458	$[18, 9, 3^2, 1^{14}]$
$[9, 3^2, 1^3]$	$(1T_1)^3$ , $(3T_1^{+*})^2$ , $9T_{17}^{+*}$	$18T^*_{454}$ $18T^*_{455}$	4374	$[18, 9, 3^3, 1^{13}]$
$[9, 3^2, 1^3]$	$(1T_1)^3$ , $(3T_1^{+*})^2$ , $9T_{17}^{+*}$	18775	4374	$[18, 9, 3^3, 1^{13}]$
$[9, 3^2, 1^3]$	$\begin{array}{c} (-1)^3, \ (3T_1^{+*})^2, \ 9T_1^{+*} \\ (1T_1)^3, \ (3T_1^{+*})^2, \ 9T_{17}^{+*} \\ (1T_1)^3, \ (3T_1^{+*})^2, \ 9T_{17}^{+*} \end{array}$	$18T^*_{456}$	4374	$[18, 9, 3^3, 1^{13}]$
$[9, 3^2, 1^3]$	$(1T_1)^3$ , $(3T_1^{+*})^2$ , $9T_{17}^{+*}$	$18T^*_{457}$	4374	$[18, 9, 3^3, 1^{13}]$
$[9, 3^2, 1^3]$	$(1T_1)^3$ , $(3T_1^{+*})^2$ , $9T_{17}^{+*}$	$18T_{584}^*$	13122	$[18, 9, 3^4, 1^{12}]$
$[6^2, 3, 1^3]$	$(1T_1)^3$ , $3T_1^{+*}$ , $6T_2^*$ , $6T_5^*$	$18T_{126}^*$	324	$[18, 6, 3, 1^{15}]$
$[6^2, 3, 1^3]$	$(1T_1)^3, 3T_1^{+*}, 6T_2^*, 6T_5^*$	$18T_{135}^*$	324	$[18, 6, 3, 1^{15}]$
$[6^2, 3, 1^3]$	$(1T_1)^3$ , $3T_1^{+*}$ , $6T_2^*$ , $6T_5^*$	$18T_{250}^*$	972	$[18, 6, 3^2, 1^{14}]$
$[6^2, 3, 1^3]$	$(1T_1)^3, 3T_1^{+*}, (6T_5^*)^2$	$\begin{array}{c} 18T^*_{126} \\ 18T^*_{135} \\ 18T^*_{250} \\ 18T^*_{237} \\ 18T^*_{241} \\ 18T^{+*}_{242} \\ 18T^{+*}_{243} \\ 18T^*_{336} \\ 18T^*_{337} \\ 18T^*_{406} \end{array}$	972	$[18, 6, 3^2, 1^{14}]$
$[6^2, 3, 1^3]$	$(1T_1)^3, 3T_1^{+*}, (6T_5^*)^2$	$18T_{241}^*$	972	$[18, 6, 3^2, 1^{14}]$
$[6^2, 3, 1^3]$	$(1T_1)^3, 3T_1^{+*}, (6T_5^*)^2$	$18T_{242}^{+*}$	972	$[18, 6, 3^2, 1^{14}]$
$[6^2, 3, 1^3]$	$(1T_1)^3, 3T_1^{+*}, (6T_5^*)^2$	$18T_{243}^{+*}$	972	$[18, 6, 3^2, 1^{14}]$
$[6^2, 3, 1^3]$	$(1T_1)^3$ , $3T_1^{+*}$ , $(6T_5^*)^2$	$18T_{336}^*$	1944	$[18, 6^2, 3, 1^{14}]$
$[6^2, 3, 1^3]$	$(1T_1)^3$ , $3T_1^{+*}$ , $(6T_5^*)^2$	$18T_{337}^*$	1944	$[18, 6^2, 3, 1^{14}]$
$[6^2, 3, 1^3]$	$(1T_1)^3$ , $3T_1^{+*}$ , $(6T_5^*)^2$	$18T_{406}^{*}$	2916	$[18, 6, 3^3, 1^{13}]$
$[6^2, 3, 1^3]$	$(1T_1)^3$ , $3T_1^{+*}$ , $(6T_5^*)^2$	$   \begin{array}{r}     406 \\     18T_{418}^{+*} \\     18T_{419}^{+*} \\     18T_{424}^{*} \\     18T_{489}^{*}   \end{array} $	2916	$[18, 6, 3^3, 1^{13}]$
$[6^2, 3, 1^3]$	$(1T_1)^3, 3T_1^{+*}, (6T_5^*)^2$	187+*	2916	$[18, 6, 3^3, 1^{13}]$
$[6^2, 3, 1^3]$	$(1T_1)^3$ , $3T_1^{+*}$ , $(6T_5^*)^2$	187*	2916	$[18, 6, 3^3, 1^{13}]$
$[6^2, 3, 1^3]$	$(1T_1)^3$ , $3T_1^{+*}$ , $(6T_5^*)^2$	18T*	5832	$[18, 6^2, 3^2, 1^{13}]$
$[6^2, 3, 1^3]$	$(1T_1)^3$ , $3T_1^{+*}$ , $(6T_5)^2$	$18T_{490}^*$	5832	$[18, 6^2, 3^2, 1^{13}]$
$[6^2, 3, 1^3]$	$(1T_1)^3$ , $3T_1^{+*}$ , $(6T_5^*)^2$	$18T_{529}^*$	8748	$[18, 6, 3^4, 1^{12}]$
$[6^2, 3, 1^3]$	$(1T_1)^3, 3T_1^{+*}, (6T_5)^2$	107 529	8748	$[18, 6, 3^4, 1^{12}]$
$[6^2, 3, 1^3]$		$18T_{535}^{+*}$		[18, 6, 3, 1] $[18, 6^2, 3^3, 1^{12}]$
	$(1T_1)^3, 3T_1^{+*}, (6T_5^*)^2$	$18T_{598}^*$	17496	
$[12, 3, 1^3]$	$(1T_1)^3$ , $3T_1^{+*}$ , $12T_{70}^{+*}$	18T <sub>349</sub> <sup>+*</sup>	1944	$[18, 12, 3^2, 1^{14}]$
$[12, 3, 1^3]$	$(1T_1)^3$ , $3T_1^{+*}$ , $12T_{73}^*$	18T**	1944	$[18, 12, 3^2, 1^{14}]$
$[12, 3, 1^3]$	$(1T_1)^3$ , $3T_1^{+*}$ , $12T_{121}^*$	18T***	3888	$[18, 12, 6, 3, 1^{14}]$
$[12, 3, 1^3]$	$(1T_1)^3$ , $3T_1^{+*}$ , $12T_{130}^{+*}$	$18T_{510}^{+*}$	5832	$[18, 12, 3^3, 1^{13}]$
$[12, 3, 1^3]$	$(1T_1)^3$ , $3T_1^{+*}$ , $12T_{130}^{+*}$	$18T_{610}^{+*}$	17496	$[18, 12, 3^4, 1^{12}]$
$[12, 3, 1^3]$	$(1T_1)^3$ , $3T_1^{+*}$ , $12T_{131}^*$	$18T_{511}^*$	5832	$[18, 12, 3^3, 1^{13}]$
$[12, 3, 1^3]$	$(1T_1)^3$ , $3T_1^{+*}$ , $12T_{131}^*$	$18T_{605}^*$	17496	$[18, 12, 3^4, 1^{12}]$
$[12, 3, 1^3]$	$(1T_1)^3$ , $3T_1^{+*}$ , $12T_{167}^*$	$18T_{583}^*$	11664	$[18, 12, 6, 3^2, 1^{13}]$
G: Po	ssible Galois Groups, $D(G)$ : Degrees of	factors, $S($	G): Galois Groups o	f factors, $\mathcal{L}(G)$ : Initial Degrees

Splitting table of degree 18

D(G)	S(G)	G   G	$\mathcal{L}(G)$
$[12, 3, 1^3]$	$(1T_1)^3$ , $3T_1^{+*}$ , $12T_{167}^*$	$18T_{672}^{*}$ 34992	$[18, 12, 6, 3^3, 1^{12}]$
$[5^3, 1^3]$	$(1T_1)^3$ , $(5T_2^{+*})^3$	$18T_{90}^{+}$ 180	$[18, 5, 2, 1^{15}]$
$[5^3, 1^3]$	$(1T_1)^3, (5T_3^*)^3$	$18T_{144}$ 360	$[18, 5, 4, 1^{15}]$
$[5^3, 1^3]$	$(1T_1)^3, (5T_4^+)^3$	$18T_{261}^{+}$ 1080	$[18, 5, 4, 3, 1^{14}]$
$[5^3, 1^3]$	$(1T_1)^3$ , $(5T_5)^3$	$18T_{362}$ 2160	$[18, 5, 4, 3, 2, 1^{13}]$
$[9, 6, 1^3]$	$(1T_1)^3, 6T_2^*, 9T_4^*$	$18T_{118}^*$ 324	$[18, 6, 3, 1^{15}]$
$[9, 6, 1^3]$	$(1T_1)^3, 6T_2^*, 9T_4^*$	$18T_{131}^{+*}$ 324	$[18, 6, 3, 1^{15}]$
$[9, 6, 1^3]$	$(1T_1)^3$ , $6T_2^*$ , $9T_{12}^*$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$[18, 9, 6, 1^{15}]$
$[9, 6, 1^3]$	$(1T_1)^3$ , $6T_2^*$ , $9T_{12}^*$	$18T_{421}^{+*}$ 2916	[18, 9, 6, 3, 1 <sup>14</sup> ]
$[9, 6, 1^3]$	$(1T_1)^3$ , $6T_2^*$ , $9T_{12}^*$	18T** 2916	[18, 9, 6, 3, 1 <sup>14</sup> ]
$[9, 6, 1^3]$	$(1T_1)^3$ , $6T_2^*$ , $9T_{12}^*$	$187_{506}^{\pi}$ 5832	$[18, 9, 6^2, 1^{14}]$
$[9, 6, 1^3]$	$(1T_1)^3$ , $6T_5^*$ , $9T_{20}^*$	$18T_{531}^{*}$ 8748	$[18, 9, 6, 3^2, 1^{13}]$
$[9, 6, 1^3]$	$(1T_1)^3$ , $6T_5^*$ , $9T_{20}^*$	18T <sub>533</sub> 8748	$[18, 9, 6, 3^2, 1^{13}]$
$ \begin{array}{c c} [9, 6, 1^3] \\ [9, 6, 1^3] \end{array} $	$(1T_1)^3$ , $6T_5^*$ , $9T_{20}^*$	18T <sub>537</sub> 8748	$   \begin{bmatrix}     18, 9, 6, 3^2, 1^{13} \\     18, 9, 6, 3^2, 1^{13}   \end{bmatrix} $
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$(1T_1)^3$ , $6T_5^*$ , $9T_{20}^*$ $(1T_1)^3$ , $6T_5^*$ , $9T_{20}^*$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$     \begin{bmatrix}       18, 9, 6, 3^{2}, 1^{13} \\       18, 9, 6^{2}, 3, 1^{13}     \end{bmatrix}   $
$[9, 6, 1]$ $[9, 6, 1^3]$	$(1T_1)^3, 6T_5^*, 9T_{20}^*$ $(1T_1)^3, 6T_5^*, 9T_{20}^*$	$18T_{614}^{*}$ 17496	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[9, 6, 1^3]$	$(1T_1)^3$ , $6T_5^*$ , $9T_{20}^*$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$   \begin{bmatrix}     18, 9, 6, 3^3, 1^{12}   \end{bmatrix} $
$[9, 6, 1^3]$	$(1T_1)^3$ , $6T_5^*$ , $9T_{20}^*$	$18T_{653}^*$ $26244$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[9, 6, 1^3]$	$(1T_1)^3$ , $6T_5^*$ , $9T_{20}^*$	$18T_{724}^*$ 52488	
$[15, 1^3]$	$(1T_1)^3$ , $15T_2^+$	$18T_{262}^{+}$ 1080	$[18, 15, 4, 1^{15}]$
$[15, 1^3]$	$(1T_1)^3$ , $15T_{34}^{+*}$	$ \begin{array}{ccc} 18T_{262}^{+} & 1080 \\ 18T_{596}^{+} & 14580 \end{array} $	$[18, 15, 6, 3^2, 1^{13}]$
$[15, 1^3]$	$(1T_1)^3$ , $15T_{41}^*$	$18T_{666}$ 29160	$[18, 15, 12, 3^2, 1^{13}]$
$[15, 1^3]$	$\begin{array}{c} (1T_1)^3, \ 15T_{34}^{+*} \\ (1T_1)^3, \ 15T_{41}^{**} \\ (1T_1)^3, \ 15T_{46}^{**} \\ \end{array}$	$18T_{722}^{+}$ 43740	$[18, 15, 6, 3^3, 1^{12}]$
$[15, 1^3]$	$(1T_1)^3$ , $15T_{53}^+$	18T <sup>+</sup> <sub>791</sub> 87480	$[18, 15, 12, 9, 3, 1^{13}]$
$[15, 1^3]$	$(1T_1)^3, 15T_{56}^*$	$18T_{787}$ 87480	$[18, 15, 12, 3^3, 1^{12}]$
$[15, 1^3]$	$(1T_1)^3$ , $15T_{63}$	$18T_{847}$ $174960$	$[18, 15, 12, 9, 6, 1^{13}]$
$[15, 1^3]$	$(1T_1)^3$ , $15T_{69}^+$	$18T_{856}^{+}$ 262440	$[18, 15, 12, 9, 3^2, 1^{12}]$
$[15, 1^3]$	$(1T_1)^3$ , $15T_{78}$	$18T_{898}$ $524880$	$[18, 15, 12, 9, 6, 3, 1^{12}]$
$[2^8, 1^2]$	$(1T_1)^2$ , $(2T_1)^8$	$18T_9^*$ 36	$[18, 2, 1^{16}]$
$[2^8, 1^2]$	$(1T_1)^2, (2T_1)^8$	18T* 36	[18, 2, 1 <sup>16</sup> ]
$[2^8, 1^2]$	$(1T_1)^2$ , $(2T_1)^8$	18T <sub>12</sub> 36	[18, 2, 1 <sup>16</sup> ]
$[2^8, 1^2]$	$(1T_1)^2$ , $(2T_1)^8$	$18T_{13}^{*}$ 36	[18, 2, 1 <sup>16</sup> ]
$[2^8, 1^2]$	$(1T_1)^2, (2T_1)^8$	18T <sub>62</sub> <sup>+*</sup> 144	$[18, 2^3, 1^{14}]$
$ \begin{array}{c c} \hline [2^8, 1^2] \\ \hline [2^8, 1^2] \end{array} $	$(1T_1)^2, (2T_1)^8$	18T <sub>109</sub> 288	$ \begin{array}{c cccc} [18, 2^4, 1^{13}] \\ [18, 2^5, 1^{12}] \end{array} $
$[2^8, 1^2]$	$(1T_1)^2, (2T_1)^8$	$18T_{177}^{+*}$ 576 $18T_{178}^{+*}$ 576	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[2^8, 1^2]$	$\begin{array}{c c} (1T_1)^2, \ (2T_1)^8 \\ (1T_1)^2, \ (2T_1)^8 \end{array}$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[2^8, 1^2]$	$(1T_1)^{-1}, (2T_1)^{-1}$ $(1T_1)^2, (2T_1)^8$	$18T_{264}^*$ $1152$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[2^8, 1^2]$	$(1T_1)^{\frac{1}{2}}, (2T_1)^{\frac{1}{2}}$	$18T_{368}^{+*}$ 2304	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[2^8, 1^2]$	$(1T_1)^2, (2T_1)^8$	$18T_{369}^{+*}$ 2304	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[2^8, 1^2]$	$(1T_1)^2$ , $(2T_1)^8$	$18T_{459}^*$ 4608	$[18, 2^8, 1^9]$
$[2^8, 1^2]$	$(1T_1)^2, (2T_1)^8$	$18T_{460}^*$ 4608	$[18, 2^8, 1^9]$
$[4^2, 2^4, 1^2]$	$(1T_1)^2$ , $(2T_1)^4$ , $(4T_2^{+*})^2$	$18T_{29}^{*}$ 72	$[18, 2^2, 1^{15}]$
$[4^2, 2^4, 1^2]$	$(1T_1)^2$ , $(2T_1)^4$ , $(4T_2^{+*})^2$	$18T_{31}^{+*}$ 72	$[18, 2^2, 1^{15}]$
G: Po	ossible Galois Groups, $D(G)$ : Degrees		of factors, $\mathcal{L}(G)$ : Initial Degrees

Splitting table of degree 18

D(G)	S(G)	$G \qquad  G $	$\mathcal{L}(G)$	
$[4^2, 2^4, 1^2]$	$(1T_1)^2$ , $(2T_1)^4$ , $(4T_2^{+*})^2$	$18T_{32}^*$ 72	$[18, 2^2, 1^{15}]$	
$[4^2, 2^4, 1^2]$	$(1T_1)^2$ , $(2T_1)^4$ , $(4T_2)^2$		$[18, 2, 1]$ $[18, 2^2, 1^{15}]$	
$[4^2, 2^4, 1^2]$	$(1T_1)^2$ , $(2T_1)^4$ , $(4T_2)^2$	01	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \frac{(1T_1)^2, (2T_1)^4, (4T_2^{+*})^2}{(1T_1)^2, (2T_1)^2, (3T_2^*)^4} $	$ \begin{array}{c cccc} 18T_{60}^* & 144 \\ 18T_{42}^* & 108 \end{array} $	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$\begin{bmatrix} 3^4, 2^2, 1^2 \end{bmatrix}$	$ \begin{array}{c} (1T_1)^2, \ (2T_1)^2, \ (3T_2^*)^4 \\ (1T_1)^2, \ (2T_1)^2, \ (3T_2^*)^4 \end{array} $	$18T_{51}^*$ $108$	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	
$[3^4, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $(3T_2)^4$	$ \begin{array}{c cccc} 18T_{51}^* & 108 \\ 18T_{125}^* & 324 \end{array} $	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$\begin{bmatrix} 3^4, 2^2, 1^2 \end{bmatrix}$	$(1T_1)^2$ , $(2T_1)^2$ , $(3T_2)^4$	$18T_{129}^*$ $324$	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	
$\begin{bmatrix} 3^4, 2^2, 1^2 \end{bmatrix}$	$(1T_1)^2$ , $(2T_1)^2$ , $(3T_2)^4$	$   \begin{array}{ccccccccccccccccccccccccccccccccccc$	$[18, 3^2, 2^2, 1^{13}]$	
$[3^4, 2^2, 1^2]$	$ \begin{array}{c} (1T_1)^2, \ (2T_1)^2, \ (3T_2^*)^4 \\ (1T_1)^2, \ (2T_1)^2, \ (3T_2^*)^4 \end{array} $	$18T_{202}^*$ 648	$   \begin{bmatrix}     18, 3^2, 2^2, 1^{13}   \end{bmatrix}   $	
$[3^4, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $(3T_2^*)^4$	$18T_{217}^*$ 648	$     \begin{bmatrix}       18, 3^2, 2^2, 1^{13}     \end{bmatrix}   $	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$(1T_1)^2$ , $(2T_1)^2$ , $(3T_2^*)^4$	$18T_{223}^*$ 648	$   \begin{bmatrix}     18, 3^2, 2^2, 1^{13}   \end{bmatrix}   $	
$[3^4, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $(3T_2^*)^4$	$18T_{286}^*$ 1296	$   \begin{bmatrix}     18, 3^2, 2^3, 1^{12}   \end{bmatrix} $	
$[3^4, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $(3T_2^*)^4$	$18T_{319}^*$ 1296	$[18, 3^2, 2^3, 1^{12}]$	
$[4^3, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $(4T_1^*)^3$	$18T_{39}^{*}$ 72	$[18, 2^2, 1^{15}]$	
$[4^3, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $(4T_1^*)^3$	$18T_{40}^{*}$ 72	$[18, 2^2, 1^{15}]$	
$[4^3, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $4T_1^*$ , $(4T_3^*)^2$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$[18, 4, 2^2, 1^{14}]$	
$[4^3, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $4T_1^*$ , $(4T_3^*)^2$	$18T_{270}^{*}$ 1152	$[18, 4, 2^4, 1^{12}]$	
$[4^3, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $(4T_2^{+*})^3$	$18T_{37}^{+*}$ 72	$[18, 2^2, 1^{15}]$	
$[4^3, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $(4T_2^{+*})^3$	$18T_{38}^{+*}$ 72	$[18, 2^2, 1^{15}]$	
$[4^3, 2^2, 1^2]$	$ \begin{array}{c} (1T_1)^2, \ (2T_1)^2, \ 4T_2^{+*}, \ (4T_3^*)^2 \\ (1T_1)^2, \ (2T_1)^2, \ 4T_2^{+*}, \ (4T_3^*)^2 \end{array} $	18T <sub>113</sub> <sup>+*</sup> 288	$[18, 4, 2^2, 1^{14}]$	
$[4^3, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $4T_2^{+*}$ , $(4T_3^*)^2$	$18T_{269}^{+*}$ 1152	$[18, 4, 2^4, 1^{12}]$	
$[4^3, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $(4T_3^*)^3$	$18T_{66}^{*}$ 144	$[18, 2^3, 1^{14}]$	
$[4^3, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $(4T_3^*)^3$	$18T_{67}^*$ 144	$[18, 2^3, 1^{14}]$	
$[4^3, 2^2, 1^2]$	$(1T_1)^2, (2T_1)^2, (4T_3^*)^3$	$18T_{114}^*$ 288	$[18, 4, 2^2, 1^{14}]$	
$[4^3, 2^2, 1^2]$	$(1T_1)^2, (2T_1)^2, (4T_3^*)^3$	$18T_{115}^{+*}$ 288	$[18, 4, 2^2, 1^{14}]$	
$[4^3, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $(4T_3^*)^3$	$18T_{175}^*$ 576	$[18, 4, 2^3, 1^{13}]$	
$[4^3, 2^2, 1^2]$	$(1T_1)^2, (2T_1)^2, (4T_3^*)^3$	$18T_{176}^*$ 576	$[18, 4, 2^3, 1^{13}]$	
$[4^3, 2^2, 1^2]$	$(1T_1)^2, (2T_1)^2, (4T_3^*)^3$	$18T_{268}^{+*}$ 1152	$[18, 4, 2^4, 1^{12}]$	
$[4^3, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $(4T_3^*)^3$	$18T_{271}^*$ 1152	$[18, 2^6, 1^{11}]$	
$[4^3, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $(4T_3^*)^3$	$18T_{366}^*$ 2304	$[18, 4, 2^5, 1^{11}]$	
$[4^3, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $(4T_3^*)^3$	$18T_{367}^*$ 2304	$[18, 4, 2^5, 1^{11}]$	
$[4^3, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $(4T_3^*)^3$	$18T^*_{462}$ 4608	$[18, 4, 2^6, 1^{10}]$	
$[4^3, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $(4T_3^*)^3$	18T <sub>463</sub> <sup>+*</sup> 4608	$[18, 4, 2^6, 1^{10}]$	
$[4^3, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $(4T_3^*)^3$	$18T_{544}^*$ 9216	$[18, 4, 2^7, 1^9]$	
$[8, 4, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $4T_1^*$ , $8T_2^{+*}$	$18T_{70}^{*}$ 144	$[18, 4, 2, 1^{15}]$	
$[8, 4, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $4T_2^{+*}$ , $8T_3^{+*}$	$18T_{72}^{+*}$ 144	$[18, 4, 2, 1^{15}]$	
$[8, 4, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $4T_3^*$ , $8T_4^{+*}$	$18T_{65}^{*}$ 144	$[18, 4, 2, 1^{15}]$	
$[8, 4, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $4T_3^*$ , $8T_4^{+*}$	18T <sub>69</sub> 144	$[18, 4, 2, 1^{15}]$	
$[8, 4, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $4T_3^*$ , $8T_9^{+*}$	18T** 288	$[18, 4, 2^2, 1^{14}]$	
$[6^2, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $(6T_1^*)^2$	18T <sub>41</sub> 108	$[18, 3, 2, 1^{15}]$	
$[6^2, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $(6T_1^*)^2$	18T <sub>45</sub> 108	$[18, 6, 1^{16}]$	
$[6^2, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $(6T_1^*)^2$	$18T_{55}^{*}$ $108$	$[18, 3, 2, 1^{15}]$	
$[6^2, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $6T_1^*$ , $6T_2^*$	18T <sub>141</sub> 324	$[18, 3^2, 2, 1^{14}]$	
$[6^2, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $6T_1^*$ , $6T_3^*$	18T <sub>197</sub> 648	$   \begin{bmatrix}     [18, 6, 3, 2, 1^{14}] \\     [18, 3^2, 2^2, 1^{13}]   \end{bmatrix} $	
$[6^2, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $6T_2^*$ , $6T_3^*$	$18T_{199}^*$ 648	-	
$G$ : Possible Galois Groups, $D(G)$ : Degrees of factors, $S(G)$ : Galois Groups of factors, $\mathcal{L}(G)$ : Initial Degrees				

Splitting table of degree 18

D(G)	S(G)	G   G	$\mathcal{L}(G)$
$[6^2, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $(6T_3^*)^2$	$18T_{94}^{*}$ 216	$[18, 6, 2, 1^{15}]$
$[6^2, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $(6T_3^*)^2$	$18T_{100}^{+*}$ 216	[18, 6, 2, 1]
$[6^2, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $(6T_3^*)^2$	$18T_{102}^*$ 216	[18, 6, 2, 1] $[18, 6, 2, 1]$
$[6^2, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $(6T_3^*)^2$	$18T_{148}^{*}$ 432	$   \begin{bmatrix}     18, 6, 2^2, 1^{14}   \end{bmatrix}   $
$[6^2, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $(6T_3^*)^2$	$18T_{198}^{+*}$ 648	$[18, 6, 3, 2, 1^{14}]$
$[6^2, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $(6T_3^*)^2$	$18T_{200}^{*}$ 648	$[18, 6, 3, 2, 1]$ $[18, 6, 3, 2, 1^{14}]$
$[6^2, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $(6T_3^*)^2$	$\begin{array}{cccc} 18T_{200}^* & 648 \\ 18T_{204}^{+*} & 648 \\ \hline & 18T_{205}^{+*} & 648 \\ \hline & 18T_{205}^{+*} & 648 \\ \hline & 18T_{205}^{+*} & 648 \\ \hline & 18T_{282}^{+*} & 1296 \\ \hline & 18T_{283}^{**} & 1296 \\ \hline & 18T_{322}^{**} & 1296 \\ \hline & 18T_{392}^{+*} & 1296 \\ \hline & 18T_{399}^{+*} & 2592 \\ \hline & 18T_{400}^{+*} & 2592 \\ \hline \end{array}$	[18, 6, 3, 2, 1 <sup>14</sup> ]
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$(1T_1)^2$ , $(2T_1)^2$ , $(6T_3^*)^2$	$18T_{205}^*$ 648	[18, 6, 3, 2, 1 <sup>14</sup> ]
$[6^2, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $(6T_3^*)^2$	18T <sup>+*</sup> <sub>209</sub> 648	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[6^2, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $(6T_3^*)^2$	$18T_{282}^*$ 1296	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$(1T_1)^2$ , $(2T_1)^2$ , $(6T_3^*)^2$	$18T_{283}^*$ 1296	$   \begin{bmatrix}     18, 6, 3, 2^2, 1^{13}   \end{bmatrix}   $
$[6^2, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $(6T_3^*)^2$	$18T_{285}^*$ 1296	$   \begin{bmatrix}     18, 6^2, 2, 1^{14}   \end{bmatrix}   $
$[6^2, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $(6T_3^*)^2$	$18T_{322}^{+*}$ 1296	$[18, 6, 3, 2^2, 1^{13}]$
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$(1T_1)^2$ , $(2T_1)^2$ , $(6T_3^*)^2$	$18T_{399}^{+*}$ 2592	$   \begin{bmatrix}     18, 6, 3, 2^3, 1^{12} \\     \hline     18, 6, 3, 2^3, 1^{12}   \end{bmatrix} $
$\begin{bmatrix} 6^2 & 2^2 & 1^2 \end{bmatrix}$	$(1T_1)^2$ , $(2T_1)^2$ , $(6T_3^*)^2$	$18T_{400}^{*}$ $2592$	[18, 62, 92, 113]
$ \begin{array}{c cccc} \hline [6^2, 2^2, 1^2] \\ \hline [6^2, 2^2, 1^2] \end{array} $	$(1T_1)^2$ , $(2T_1)^2$ , $(6T_3)^2$	$18T_{400}^*$ $2592$ $18T_{401}^*$ $2592$	[18, 62, 22, 113]
$[6^2, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $(6T_3)^2$	$ \begin{array}{ccc} 18T_{401}^* & 2592 \\ 18T_{472}^* & 5184 \end{array} $	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$\begin{bmatrix} 6^2, 2^2, 1^2 \end{bmatrix}$	$(1T_1)^2$ , $(2T_1)^2$ , $(6T_4^{+*})^2$	$18T_{334}^{+*}$ $1728$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$\begin{bmatrix} 6^2, 2^2, 1^2 \end{bmatrix}$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$18T_{334}^{+*}$ $1728$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$(1T_1)^2$ , $(2T_1)^2$ , $(6T_4)^2$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \frac{(1T_1)^2, (2T_1)^2, (6T_4^{+*})^2}{(1T_1)^2, (2T_1)^2, (6T_5^*)^2} $	$18T_{134}^*$ $324$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c cccc} (1T_1)^2, & (2T_1)^2, & (6T_5^*)^2 \\ (1T_1)^2, & (2T_1)^2, & (6T_5^*)^2 \end{array} $	$18T_{134}^{*}$ $324$ $18T_{136}^{*}$ $324$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c} (1T_1)^2, \ (2T_1)^2, \ (6T_5^*)^2 \\ (1T_1)^2, \ (2T_1)^2, \ (6T_6^*)^2 \end{array} $	$18T_{136}^{*}$ $324$ $18T_{428}^{*}$ $3456$	$   \begin{bmatrix}     18, 6, 2^5, 1^{11}   \end{bmatrix}   $
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$(1T_1)^2$ , $(2T_1)^2$ , $(6T_6)^2$		$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$(1T_1)^2$ , $(2T_1)^2$ , $(6T_6)^2$		$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[6^2, 2^2, 1^2]$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		[18, 6, 2, 1]
$ \begin{array}{c cccc} \hline [6^2, 2^2, 1^2] \\ \hline [6^2, 2^2, 1^2] \end{array} $	$ \begin{array}{c} (1T_1)^2, \ (2T_1)^2, \ (6T_6^*)^2 \\ (1T_1)^2, \ (2T_1)^2, \ (6T_6^*)^2 \end{array} $		$   \begin{bmatrix}     18, 6, 2^7, 1^9 \\     \hline     18, 6, 2^7, 1^9   \end{bmatrix} $
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$(1T_1)^2$ , $(2T_1)^2$ , $(6T_6^*)^2$	$18T_{586}^{*}$ $13824$ $18T_{633}^{+*}$ $20736$	[10, 0, 2, 1]
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$(1T_1)^2$ , $(2T_1)^2$ , $(6T_6^*)^2$	1 000	$[18, 6^2, 2^5, 1^{10}]$
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$(1T_1)^2$ , $(2T_1)^2$ , $(6T_6^*)^2$ $(1T_1)^2$ , $(2T_1)^2$ , $(6T_9^*)^2$	$18T_{696}^{*}$ $41472$ $18T_{194}^{*}$ $648$	$   \begin{bmatrix}     [18, 6^2, 2^6, 1^9] \\     [18, 6, 3, 2, 1^{14}]   \end{bmatrix} $
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\frac{(1T_1)^2, (2T_1)^2, (6T_9^*)^2}{(1T_1)^2, (2T_1)^2, (6T_{13}^*)^2}$	$18T_{303}^*$ $1296$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$ \begin{array}{c} (1T_1)^2, \ (2T_1)^2, \ (6T_{13}^*)^2 \\ (1T_1)^2, \ (2T_1)^2, \ (6T_{13}^*)^2 \end{array} $	$18T_{312}^{*}$ $1296$	$   \begin{bmatrix}     18, & 6, & 3, & 2 & , & 1 & \\     \hline     [18, & 6, & 3, & 2^2, & 1^{13}]   \end{bmatrix} $
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c} (1T_1)^2, \ (2T_1)^2, \ (6T_{13}^*)^2 \\ (1T_1)^2, \ (2T_1)^2, \ (6T_{13}^*)^2 \end{array} $	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$   \begin{bmatrix}     18, 6, 3, 2, 1 \\     \hline     18, 6, 3, 2^2, 1^{13}   \end{bmatrix} $
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$			$   \begin{bmatrix}     18, 6, 3, 2, 1 \\     \hline     18, 6, 3, 2^2, 1^{13}   \end{bmatrix} $
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$(1T_1)^2$ , $(2T_1)^2$ , $(6T_{13}^*)^2$	021	$     \begin{bmatrix}       18, 6, 3, 2, 1 \\       \hline       18, 6, 3, 2^3, 1^{12}     \end{bmatrix}   $
	$(1T_1)^2$ , $(2T_1)^2$ , $(6T_{13}^*)^2$	1 991	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$(1T_1)^2$ , $(2T_1)^2$ , $12T_1^*$ $(1T_1)^2$ , $(2T_1)^2$ , $12T_1^*$	31	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		30	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$(1T_1)^2$ , $(2T_1)^2$ , $12T_2^{+*}$	$18T_{99}^{+*}$ 216	$[18, 6, 2, 1^{15}]$
	$(1T_1)^2$ , $(2T_1)^2$ , $12T_2^{+*}$	$18T_{101}^{+*}$ 216	$[18, 6, 2, 1^{15}]$
$[12, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $12T_{10}^{+*}$	18T <sub>154</sub> <sup>+*</sup> 432	$[18, 12, 2, 1^{15}]$
$[12, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $12T_{11}^*$	18T* 432	$[18, 12, 2, 1^{15}]$
$[12, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $12T_{12}^*$	18T* 432	$[18, 12, 2, 1^{15}]$
$[12, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $12T_{13}^*$	$18T_{155}^{*}$ 432	$[18, 12, 2, 1^{15}]$
G: Po	essible Galois Groups, $D(G)$ : Degrees of	factors, $S(G)$ : Galois Group	s of factors, $\mathcal{L}(G)$ : Initial Degrees

Splitting table of degree 18

D(G)	S(G)	G   G	$\mathcal{L}(G)$
$[12, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $12T_{14}^*$		$\begin{bmatrix} 18, 6, 2^2, 1^{14} \end{bmatrix}$
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		1.11	
	$(1T_1)^2$ , $(2T_1)^2$ , $12T_{14}^*$	18T <sub>149</sub> 432	$[18, 6, 2^2, 1^{14}]$
$[12, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $12T_{16}^{+*}$	18T <sub>222</sub> 648	$[18, 6, 3, 2, 1^{14}]$
$[12, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $12T_{17}^*$	18T** 648	$[18, 6, 3, 2, 1^{14}]$
$[12, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $12T_{18}^{+*}$	18T <sup>+*</sup> <sub>225</sub> 648	$[18, 6, 3, 2, 1^{14}]$
$[12, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $12T_{19}^*$	18T* 648	$[18, 6, 3, 2, 1^{14}]$
$[12, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $12T_{28}^*$	$18T_{228}^*$ 864	$[18, 12, 2^2, 1^{14}]$
$[12, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $12T_{35}^*$	$18T_{320}^*$ 1296	$[18, 6^2, 2, 1^{14}]$
$[12, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $12T_{36}^*$	$18T_{301}^*$ 1296	$[18, 12, 3, 2, 1^{14}]$
$[12, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $12T_{36}^*$	$18T_{305}^*$ 1296	$[18, 12, 3, 2, 1^{14}]$
$[12, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $12T_{37}^{+*}$	$18T_{311}^{+*}$ 1296	$[18, 12, 3, 2, 1^{14}]$
$[12, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $12T_{37}^{+*}$	$18T_{316}^{+*}$ 1296	$[18, 12, 3, 2, 1^{14}]$
$[12, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $12T_{38}^*$	$18T_{299}^*$ 1296	$[18, 12, 3, 2, 1^{14}]$
$[12, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $12T_{38}^*$	$18T_{310}^*$ 1296	$[18, 12, 3, 2, 1^{14}]$
$[12, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $12T_{39}^*$	$18T_{317}^*$ 1296	$[18, 12, 3, 2, 1^{14}]$
$[12, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $12T_{41}^*$	$18T_{300}^*$ 1296	$[18, 12, 3, 2, 1^{14}]$
$[12, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $12T_{42}^*$	$18T_{308}^{*}$ 1296	$[18, 6^2, 2, 1^{14}]$
$[12, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $12T_{69}^{+*}$	$18T_{426}^*$ 3456	$[18, 6, 2^5, 1^{11}]$
$[12, 2^2, 1^2]$	$\begin{array}{c} (1T_1)^2,\ (2T_1)^2,\ 12T_{69}^{+*} \\ (1T_1)^2,\ (2T_1)^2,\ 12T_{77}^{+*} \end{array}$	$18T_{437}^{+*}$ 3456 $18T_{403}^{+*}$ 2592 $18T_{404}^{+*}$ 2592 $18T_{483}^{+*}$ 5184	$[18, 12, 2^4, 1^{12}]$
$[12, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $12T_{77}^{+*}$	$18T_{403}^{+*}$ 2592	$[18, 12, 3, 2^2, 1^{13}]$
$[12, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $12T_{77}^{+*}$	$18T_{404}^{+*}$ 2592	$[18, 12, 3, 2^2, 1^{13}]$
$[12, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $12T_{77}^{+*}$	$18T_{483}^{+*}$ 5184	$[18, 12, 3, 2^3, 1^{12}]$
$[12, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $12T_{78}^*$	$18T_{394}^{*}$ 2592	$   \begin{bmatrix}     18, 12, 6, 2, 1^{14}   \end{bmatrix} $
$[12, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $12T_{79}^*$	$18T_{402}^*$ 2592	$[18, 12, 3, 2^2, 1^{13}]$
$[12, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $12T_{79}^*$	$18T_{405}^*$ 2592	$   \begin{bmatrix}     18, 12, 3, 2^2, 1^{13}   \end{bmatrix}   $
$[12, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $12T_{79}^*$	$18T_{484}^*$ 5184	$[18, 12, 3, 2^3, 1^{12}]$
$[12, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $12T_{81}^*$	$18T_{396}^{*}$ 2592	$[18, 12, 6, 2, 1^{14}]$
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$(1T_1)^2$ , $(2T_1)^2$ , $12T_{106}^{+*}$	$18T_{521}^{*}$ 6912	$[18, 12, 2^5, 1^{11}]$
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$(1T_1)^2$ , $(2T_1)^2$ , $12T_{106}^*$ $(1T_1)^2$ , $(2T_1)^2$ , $12T_{125}^*$	$18T_{485}^{*}$ 5184	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$(1T_1)^2$ , $(2T_1)^2$ , $12T_{125}^*$ $(1T_1)^2$ , $(2T_1)^2$ , $12T_{125}^*$	$18T_{486}^*$ 5184	$   \begin{bmatrix}     18, 12, 6, 2, 1 \\     18, 12, 6, 2^2, 1^{13}   \end{bmatrix} $
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$(1T_1)^2$ , $(2T_1)^2$ , $12T_{125}^*$ $(1T_1)^2$ , $(2T_1)^2$ , $12T_{125}^*$	$18T_{486}^*$ 5184	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$(1T_1)^2$ , $(2T_1)^2$ , $12T_{125}^*$ $(1T_1)^2$ , $(2T_1)^2$ , $12T_{125}^*$		$   \begin{bmatrix}     18, 12, 6, 2, 1 \\     18, 12, 6, 2^2, 1^{13}   \end{bmatrix} $
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$(1T_1)^2$ , $(2T_1)^2$ , $12T_{125}^*$ $(1T_1)^2$ , $(2T_1)^2$ , $12T_{125}^*$		$ \begin{bmatrix} 18, 12, 6, 2, 1 \\ 18, 12, 6, 2^3, 1^{12} \end{bmatrix} $
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$(1T_1)^{2}, (2T_1)^{2}, 12T_{126}^{+*}$	1 000	$ \begin{bmatrix} 16, 12, 6, 2, 1 \\ 18, 6^2, 2^4, 1^{11} \end{bmatrix} $
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$(1T_1)^2$ , $(2T_1)^2$ , $12T_{126}^{+*}$		$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
	$(1T_1)^2$ , $(2T_1)^2$ , $12T_{126}^{+*}$	300	
$[12, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $12T_{135}^*$	$18T_{594}^{*}$ $13824$	$[18, 12, 2^6, 1^{10}]$
$[12, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $12T_{135}^*$	18T <sub>595</sub> 13824	$[18, 12, 2^6, 1^{10}]$
$[12, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $12T_{135}^*$	18T** 27648	$[18, 12, 2^7, 1^9]$
$[12, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $12T_{158}^{+*}$	$18T_{632}^*$ 20736	$[18, 12, 6, 2^4, 1^{11}]$
$[12, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $12T_{208}^*$	$18T_{704}^*$ 41472	$[18, 12, 6, 2^5, 1^{10}]$
$[12, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $12T_{208}^*$	$18T_{711}^{+*}$ 41472	$[18, 12, 6, 2^5, 1^{10}]$
$[12, 2^2, 1^2]$	$(1T_1)^2$ , $(2T_1)^2$ , $12T_{208}^*$	$18T_{764}^{*}$ 82944	$[18, 12, 6, 2^6, 1^9]$
$[4^4, 1^2]$	$(1T_1)^2, (4T_1^*)^4$	$18T_{27}^*$ 72	$[18, 4, 1^{16}]$
$[4^4, 1^2]$	$(1T_1)^2, (4T_1^*)^4$	$18T_{28}^*$ 72	$[18, 4, 1^{16}]$
$[4^4, 1^2]$	$(1T_1)^2, (4T_1^*)^4$	$18T_{35}^*$ 72	$[18, 4, 1^{16}]$
G: Po	ssible Galois Groups, $D(G)$ : Degrees o	f factors, $S(G)$ : Galois Groups	of factors, $\mathcal{L}(G)$ : Initial Degrees

Splitting table of degree 18

D(G)	S(G)	$G \qquad  G $	$\mathcal{L}(G)$
$[4^4, 1^2]$	$(1T_1)^2$ , $(4T_1^*)^4$	$18T_{36}^{*}$ 72	$[18, 4, 1^{16}]$
$[4^4, 1^2]$	$(1T_1)^2$ , $(4T_1^*)^2$ , $(4T_3^*)^2$	$18T_{116}^{*}$ 288	$[18, 4, 2^2, 1^{14}]$
$[4^4, 1^2]$	$(1T_1)^2, 4T_1^*, (4T_3^*)^3$	$18T_{277}^{*}$ 1152	$[18, 4, 2^4, 1^{12}]$
$[4^4, 1^2]$	$(1T_1)^2, 4T_1^*, (4T_3^*)^3$	$18T_{279}^{*}$ 1152	$[18, 4, 2^4, 1^{12}]$
$[4^4, 1^2]$	$(1T_1)^2$ , $(4T_2^{+*})^2$ , $(4T_3^*)^2$	18T <sub>117</sub> <sup>+*</sup> 288	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^4, 1^2]$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$18T_{276}^{+*}$ 1152	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^4, 1^2]$	$(1T_1)^2$ , $4T_2^{+*}$ , $(4T_3^*)^3$	$18T_{278}^{+*}$ 1152	$[18, 4, 2^4, 1^{12}]$
$[4^4, 1^2]$	$(1T_1)^2, (4T_3^*)^4$	$18T_{63}^*$ 144	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^4, 1^2]$	$(1T_1)^2, (4T_3)^4$	$18T_{73}^*$ 144	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^4, 1^2]$	$(1T_1)^2, (4T_3)^4$	$18T_{183}^*$ 576	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^4, 1^2]$	$(1T_1)^2, (4T_3)^4$	$18T_{183}^*$ $370$ $18T_{372}^*$ $2304$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^4, 1^2]$	$(1T_1)^2, (4T_3)^4$	$18T_{372}^* 2304$ $18T_{375}^* 2304$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^4, 1^2]$	$ (1T_1)^2, (4T_3^*)^4  (1T_1)^2, (4T_3^*)^4 $	$18T_{464}^{*}$ $4608$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^4, 1^2]$	$(1T_1)^2, (4T_3^*)^4$	101 <sub>464</sub> 4000	[10, 4, 2, 1]
$[4^{-}, 1^{-}]$	$ \begin{array}{c} (1T_1)^2, \ (4T_3^*)^4 \\ (1T_1)^2, \ (4T_3^*)^4 \end{array} $	18T* 4608	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^4, 1^2]$	$(1I_1)^2, (4I_3)^2$	18T <sup>+*</sup> <sub>466</sub> 4608	$[18, 4, 2^6, 1^{10}]$
$[4^4, 1^2]$	$(1T_1)^2, (4T_3^*)^4$	18T <sub>467</sub> 4608	[18, 4, 2 <sup>8</sup> , 1 <sup>10</sup> ]
$[4^4, 1^2]$	$(1T_1)^2, (4T_3^*)^4$	18T* 9216	$   \begin{bmatrix}     18, 4, 2^6, 1^{10} \\     18, 4, 2^6, 1^{10} \\     18, 4, 2^7, 1^9 \\     18, 4, 2^7, 1^9   \end{bmatrix} $
$[4^4, 1^2]$	$(1T_1)^2$ , $(4T_3^*)^4$	$18T_{551}^*$ 9216	$[18, 4, 2', 1^9]$
$[8, 4^2, 1^2]$	$(1T_1)^2$ , $4T_1^*$ , $4T_3^*$ , $8T_{21}^*$	$18T_{185}^*$ 576	[18, 8, 2 <sup>2</sup> , 1 <sup>14</sup> ]
$[8, 4^2, 1^2]$	$(1T_1)^2$ , $4T_1^*$ , $4T_3^*$ , $8T_{31}^*$	$18T_{374}^{*}$ 2304	$[18, 4^2, 2^3, 1^{12}]$
$[8, 4^2, 1^2]$	$(1T_1)^2$ , $(4T_2^{+*})^2$ , $8T_{22}^{+*}$	$18T_{180}^{+*}$ 576	$[18, 8, 2^2, 1^{14}]$
$[8, 4^2, 1^2]$	$(1T_1)^2$ , $4T_2^{+*}$ , $4T_3^*$ , $8T_{31}^*$	$18T_{373}^{+*}$ 2304	$[18, 4^2, 2^3, 1^{12}]$
$[8, 4^2, 1^2]$	$\begin{array}{c} (1T_1)^2, \ 4T_1^*, \ 4T_3^*, \ 8T_{21}^* \\ (1T_1)^2, \ 4T_1^*, \ 4T_3^*, \ 8T_{31}^* \\ (1T_1)^2, \ 4T_1^*, \ 4T_3^*, \ 8T_{22}^{+*} \\ (1T_1)^2, \ 4T_2^{+*}, \ 4T_3^*, \ 8T_{31}^* \\ (1T_1)^2, \ 4T_2^{+*}, \ 4T_3^*, \ 8T_3^* \\ (1T_1)^2, \ (4T_3^*)^2, \ 8T_9^{+*} \\ \end{array}$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$[18, 4^2, 2, 1^{14}]$
$[8, 4^2, 1^2]$	$ (1I_1)^2, (4I_3)^2, 8I_9$	$18T_{186}^{+*}$ 576	$[18, 4^2, 2, 1^{14}]$
$[8, 4^2, 1^2]$	$(1T_1)^2$ , $(4T_3^*)^2$ , $8T_{11}^{+*}$	$18T_{187}^*$ 576	$[18, 4^2, 2, 1^{14}]$
$[8, 4^2, 1^2]$	$(1T_1)^2, (4T_3^*)^2, 8T_{21}^*$	$18T_{179}^*$ 576	$[18, 8, 2^2, 1^{14}]$
$[8, 4^2, 1^2]$	$(1T_1)^2$ , $(4T_3^*)^2$ , $8T_{22}^{+*}$	$18T_{200}^*$ 1152	$[18, 4^2, 2^2, 1^{13}]$
$[8, 4^2, 1^2]$	$(1T_1)^2, (4T_3^*)^2, 8T_{31}^*$	$18T_{267}^*$ 1152	$ \begin{array}{c} [18, 4^2, 2^2, 1^{13}] \\ [18, 8, 2^3, 1^{13}] \end{array} $
$[8, 4^2, 1^2]$	$(1T_1)^2$ , $(4T_3^*)^2$ , $8T_{31}^*$	$18T_{371}^*$ 2304	$[18, 4, 2^5, 1^{11}]$
$[8, 4^2, 1^2]$	$(1T_1)^2$ , $(4T_3^*)^2$ , $8T_{31}^*$	$18T_{376}^*$ 2304	$[18, 4, 2^5, 1^{11}]$
$[8, 4^2, 1^2]$	$(1T_1)^2, (4T_3^{\pi})^2, 8T_{31}^{\pi}$	$18T_{461}^*$ 4608	$[18, 4^2, 2^4, 1^{11}]$
$[8, 4^2, 1^2]$	$ \begin{array}{c} (1T_1)^2, \ (4T_3^*)^2, \ 8T_{31}^* \\ (1T_1)^2, \ (4T_3^*)^2, \ 8T_{31}^* \\ \end{array} $	$18T_{545}^{+*}$ 9216	$[18, 4^2, 2^5, 1^{10}]$
$[8, 4^2, 1^2]$	$(1T_1)^2$ , $(4T_3^*)^2$ , $8T_{31}^*$	$18T_{546}^{*}$ 9216	$[18, 4^2, 2^5, 1^{10}]$
$[8, 4^2, 1^2]$	$\begin{array}{c} (1T_1)^2, \ (4T_3^*)^2, \ 8T_{31}^* \\ (1T_1)^2, \ (4T_3^*)^2, \ 8T_{31}^* \end{array}$	$18T_{550}^{*}$ 9216	$[18, 4^2, 2^5, 1^{10}]$
$[8, 4^2, 1^2]$	$(1T_1)^2$ , $(4T_3^*)^2$ , $8T_{31}^*$	$18T_{623}^*$ $18432$	$[18, 4^2, 2^6, 1^9]$
$[6^2, 4, 1^2]$	$(1T_1)^2, 4T_1^*, (6T_8^*)^2$	$18T_{432}^{*}$ 3456	$[18, 6, 4, 2^3, 1^{12}]$
$[6^2, 4, 1^2]$	$(1T_1)^2, 4T_1^*, (6T_8^*)^2$	$18T_{567}^{*}$ 10368	$[18, 6^2, 4, 2^2, 1^{12}]$
$[6^2, 4, 1^2]$	$(1T_1)^2, 4T_1^*, (6T_8^*)^2$	$18T_{645}^{+*}$ 20736	$[18, 6^2, 4^2, 2, 1^{12}]$
$[6^2, 4, 1^2]$	$(1T_1)^2, 4T_1^*, (6T_8^*)^2$	$18T_{708}^{*}$ 41472	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[6^2, 4, 1^2]$	$(1T_1)^2, 4T_2^{+*}, (6T_7^{+*})^2$	$18T_{430}^{+*}$ 3456	$[18, 6, 4, 2^3, 1^{12}]$
$[6^2, 4, 1^2]$	$(1T_1)^2, 4T_2^{+*}, (6T_7^{+*})^2$	$18T_{565}^{+*}$ 10368	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[6^2, 4, 1^2]$	$(1T_1)^2$ , $4T_2^{+*}$ , $(6T_7^{+*})^2$	$18T_{646}^{+*}$ 20736	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[6^2, 4, 1^2]$	$(1T_1)^2$ , $4T_2^{+*}$ , $(6T_7^{+*})^2$	$18T_{703}^{+*}$ 41472	$   \begin{bmatrix}     18, 6^2, 4^3, 1^{12}   \end{bmatrix}   $
$[6^2, 4, 1^2]$	$(1T_1)^2, 4T_2^*, (6T_7)^2$	$18T_{513}^*$ $6912$	$   \begin{bmatrix}     18, 6, 4, 2^4, 1^{11}   \end{bmatrix}   $
$[6^2, 4, 1^2]$	$(1T_1)^2, 4T_3^*, (6T_{11})^2$	$18T_{589}^*$ $13824$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
	1 ( ) ( ) ( ) ( )	•	
	Possible Galois Groups, $D(G)$ : Degrees	or ractors, $S(G)$ : Galois Grot	ips of factors, $\mathcal{L}(G)$ : finitial Degrees

Splitting table of degree 18

D(G)	S(G)	G   G	$\mathcal{L}(G)$	
$[6^2, 4, 1^2]$	$(1T_1)^2, 4T_3^*, (6T_{11}^*)^2$	$18T_{591}^{+*}$ $13824$	$[18, 6, 4, 2^5, 1^{10}]$	
$[6^2, 4, 1^2]$	$(1T_1)^2, 4T_3^*, (6T_{11})^2$	$18T_{631}^*$ $20736$	$   \begin{bmatrix}     18, 6^2, 4, 2^3, 1^{11}   \end{bmatrix}   $	
$\begin{bmatrix} 6^2, 4, 1^2 \end{bmatrix}$	$(1T_1)^2, 4T_3^*, (6T_{11})^2$		$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$[6^2, 4, 1^2]$	$(111)$ , $41_3$ , $(01_{11})$	$18T_{647}^{+*}$ 20736 $18T_{657}^{*}$ 27648	[10, 0, 4, 2, 1]	
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	001	$[18, 6, 4, 2^6, 1^9]$	
$[6^2, 4, 1^2]$	$(1I_1)^2, 4I_3, (0I_{11})^2$	18T* 41472	$\begin{bmatrix} 18, 6^2, 4^2, 2^2, 1^{11} \end{bmatrix}$	
$[6^2, 4, 1^2]$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	18T** 41472	$[18, 6^2, 4^2, 2^2, 1^{11}]$	
$[6^2, 4, 1^2]$	$(1T_1)^2$ , $4T_3^*$ , $(6T_{11}^*)^2$	18T <sub>701</sub> 41472	$[18, 6^2, 4, 2^4, 1^{10}]$	
$[6^2, 4, 1^2]$	$(1T_1)^2, 4T_3^*, (6T_{11}^*)^2$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$[18, 6^2, 4^2, 2^2, 1^{11}]$	
$[6^2, 4, 1^2]$	$(1T_1)^2, 4T_3^*, (6T_{11}^*)^2$	18T* <sub>705</sub> 41472	$[18, 6^2, 4^2, 2^2, 1^{11}]$	
$[6^2, 4, 1^2]$	$(1T_1)^2, 4T_3^*, (6T_{11}^*)^2$	18T <sub>706</sub> 41472	$[18, 6^2, 4^2, 2^2, 1^{11}]$	
$[6^2, 4, 1^2]$	$(1T_1)^2, 4T_3^*, (6T_{11}^*)^2$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$[18, 6^2, 4^2, 2^2, 1^{11}]$	
$[6^2, 4, 1^2]$	$(1T_1)^2$ , $4T_3^*$ , $(6T_{11}^*)^2$	$18T_{709}^{+*}$ 41472	$[18, 6^2, 4^2, 2^2, 1^{11}]$	
$[6^2, 4, 1^2]$	$(1T_1)^2$ , $4T_3^*$ , $(6T_{11}^*)^2$	$18T_{710}^*$ 41472	$   \begin{bmatrix}     18, 6^2, 4, 2^4, 1^{10} \\     18, 6^2, 4^3, 2, 1^{11}   \end{bmatrix} $	
$[6^2, 4, 1^2]$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$18T_{765}^{*}$ 82944	$[18, 6^2, 4^3, 2, 1^{11}]$	
$[6^2, 4, 1^2]$	$(1T_1)^2, 4T_3^*, (6T_{11}^*)^2$	$18T^*_{766}$ 82944	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$[6^2, 4, 1^2]$	$(1T_1)^2, 4T_3^*, (6T_{11}^*)^2$	$18T_{767}^{*}$ 82944	$[18, 6^2, 4^2, 2^3, 1^{10}]$	
$[6^2, 4, 1^2]$	$(1T_1)^2, 4T_3^*, (6T_{11}^*)^2$	$18T_{768}^{*}$ 82944	$[18, 6^2, 4^3, 2, 1^{11}]$	
$[6^2, 4, 1^2]$	$(1T_1)^2$ , $4T_2^*$ , $(6T_{11}^*)^2$	$18T_{786}^{+*}$ 82944	$[18, 6^2, 4^2, 2^3, 1^{10}]$	
$[6^2, 4, 1^2]$	$(1T_1)^2, 4T_3^*, (6T_{11}^*)^2$	$18T_{838}^{+*}$ 165888	$[18, 6^2, 4^3, 2^2, 1^{10}]$	
$[6^2, 4, 1^2]$	$\begin{array}{c} (-1)^{2}, \ -3, \ (-1)^{2}, \ 4T_{3}^{*}, \ (6T_{11}^{*})^{2} \\ (1T_{1})^{2}, \ 4T_{3}^{*}, \ (6T_{11}^{*})^{2} \\ (1T_{1})^{2}, \ 4T_{3}^{*}, \ (6T_{11}^{*})^{2} \\ \end{array}$	$18T_{839}^*$ 165888	$[18, 6^2, 4^2, 2^4, 1^9]$	
$[6^2, 4, 1^2]$	$(1T_1)^2, 4T_3^*, (6T_{11}^*)^2$	$18T_{840}^*$ 165888	$[18, 6^2, 4^3, 2^2, 1^{10}]$	
$[6^2, 4, 1^2]$	$(1T_1)^2, 4T_3^*, (6T_{11}^*)^2$	$18T_{879}^{*}$ 331776	$[18, 6^2, 4^3, 2^3, 1^9]$	
$[12, 4, 1^2]$	$(1T_1)^2, 4T_1^*, 12T_{58}^{+*}$	$18T^*_{434}$ 3456	$[18, 6, 4, 2^3, 1^{12}]$	
$[12, 4, 1^2]$	$(1T_1)^2, 4T_1^*, 12T_{58}^{+*}$	$18T^*_{435}$ 3456	$[18, 6, 4, 2^3, 1^{12}]$	
$[12, 4, 1^2]$	$(1T_1)^2, 4T_1^*, 12T_{108}^{+*}$	$18T_{518}^{*}$ 6912	$[18, 12, 4, 2^3, 1^{12}]$	
$[12, 4, 1^2]$	$(1T_1)^2, 4T_1^*, 12T_{126}^{+*}$	$18T_{568}^{*}$ 10368	$ \begin{array}{c} [18, 6^2, 4, 2^2, 1^{12}] \\ [18, 12, 6, 4, 2^2, 1^{12}] \end{array} $	
$[12, 4, 1^2]$	$(1T_1)^2, 4T_1^*, 12T_{161}^{+*}$	$18T^*_{643}$ 20736	$[18, 12, 6, 4, 2^2, 1^{12}]$	
$[12, 4, 1^2]$	$(1T_1)^2, 4T_1^*, 12T_{200}^*$	$18T_{712}^{+*}$ 41472	$[18, 12, 6, 4^2, 2, 1^{12}]$	
$[12, 4, 1^2]$	$(1T_1)^2, 4T_1^*, 12T_{200}^*$	$18T_{-2}^*$ 41472	$[18, 12, 6, 4^2, 2, 1^{12}]$	
$[12, 4, 1^2]$	$(1T_*)^2 AT^* 19T^*$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$[18, 12, 6, 4^3, 1^{12}]$	
$[12, 4, 1^2]$	$(1T_1)^2, 4T_2^{+*}, 12T_{58}^{+*}$	$18T_{431}^{+*}$ 3456	$[18, 6, 4, 2^3, 1^{12}]$	
$[12, 4, 1^2]$	$(1T_1)^2, 4T_2^{+*}, 12T_{58}^{+*}$	$18T_{433}^{+*}$ 3456	[18, 6, 4, 2 <sup>3</sup> , 1 <sup>12</sup> ]	
$[12, 4, 1^2]$	$(1T_1)^2$ , $4T_2^{+*}$ , $12T_{100}^{+*}$	$18T_{520}^{+*}$ 6912	$[18, 12, 4, 2^3, 1^{12}]$	
$[12, 4, 1^2]$	$(1T_1)^2$ , $4T_2^{+*}$ , $12T_{120}^{+*}$	$18T_{569}^{+*}$ 10368	$ \begin{bmatrix} 18, 6^2, 4, 2^2, 1^{12} \end{bmatrix} $	
$[12, 4, 1^2]$	$\begin{array}{c} (111)^{2}, \ 4T_{1}^{1}, \ 12T_{200}^{1} \\ (1T_{1})^{2}, \ 4T_{2}^{+*}, \ 12T_{58}^{+*} \\ (1T_{1})^{2}, \ 4T_{2}^{+*}, \ 12T_{58}^{+*} \\ (1T_{1})^{2}, \ 4T_{2}^{+*}, \ 12T_{109}^{+*} \\ (1T_{1})^{2}, \ 4T_{2}^{+*}, \ 12T_{163}^{+*} \\ (1T_{1})^{2}, \ 4T_{2}^{+*}, \ 12T_{163}^{+*} \end{array}$	$18T_{641}^{+*}$ 20736	$[18, 12, 6, 4, 2^2, 1^{12}]$	
$[12, 4, 1^2]$	$(1T_1)^2$ , $4T_2^{+*}$ , $12T_{203}^{+*}$	$18T_{715}^{+*}$ 41472	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$[12, 4, 1^2]$	$(1T_1)^2$ , $4T_2^{+*}$ , $12T_{203}^{+*}$	$18T_{718}^{+*}$ 41472	$[18, 12, 6, 4^2, 2, 1^{12}]$	
[12, 4, 1]	$(1T_1)^{\frac{1}{2}}, 4T_2^{\frac{1}{2}}, 12T_{203}^{\frac{1}{2}}$	$18T_{776}^{+*}$ 82944	$[18, 12, 6, 4^{3}, 1^{12}]$	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$(1T_1)^2$ , $4T_2^*$ , $12T_{203}^{+*}$ $(1T_1)^2$ , $4T_3^*$ , $12T_{87}^{+*}$		[18, 6, 4, 2 <sup>4</sup> , 1 <sup>11</sup> ]	
[12, 4, 1] $[12, 4, 1^2]$	$(1T_1)^{2}, 4T_3^{3}, 12T_{87}^{+*}$ $(1T_1)^{2}, 4T_3^{*}, 12T_{87}^{+*}$	012	[18, 6, 4, 2, 1]	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$(1T_1)^2, 4T_3, 12T_{87}^+$ $(1T_1)^2, 4T_3^*, 12T_{108}^{+*}$	014	[18, 6, 4, 2 <sup>4</sup> , 1 <sup>11</sup> ]	
		011	[18, 6, 4, 2 <sup>4</sup> , 1 <sup>11</sup> ]	
$[12, 4, 1^2]$	$(1T_1)^2, 4T_3^*, 12T_{109}^{+*}$	013		
$[12, 4, 1^2]$	$(1T_1)^2$ , $4T_3^*$ , $12T_{134}^*$	18T <sup>+*</sup> <sub>588</sub> 13824	$[18, 12, 2^6, 1^{10}]$	
$[12, 4, 1^2]$	$(1T_1)^2$ , $4T_3^*$ , $12T_{134}^*$	18T* <sub>590</sub> 13824	$[18, 6, 4, 2^5, 1^{10}]$	
$[12, 4, 1^2]$	$(1T_1)^2, 4T_3^*, 12T_{134}^*$	$18T_{592}^{*}$ 13824	$[18, 12, 2^6, 1^{10}]$	
$G$ : Possible Galois Groups, $D(G)$ : Degrees of factors, $S(G)$ : Galois Groups of factors, $\mathcal{L}(G)$ : Initial Degrees				

Splitting table of degree 18

D(G)	S(G)	G   G	$\mathcal{L}(G)$	
$[12, 4, 1^2]$	$(1T_1)^2, 4T_3^*, 12T_{134}^*$	$18T_{593}^{+*}$ $13824$	$[18, 6, 4, 2^5, 1^{10}]$	
$[12, 4, 1]$ $[12, 4, 1^2]$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		$   \begin{bmatrix}     18, & 0, & 4, & 2, & 1 \\     \hline     18, & 12, & 2^7, & 1^9   \end{bmatrix} $	
$[12, 4, 1]$ $[12, 4, 1^2]$	$(111)$ , $413$ , $121_{134}$	000	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
	$(1T_1)^2, 4T_3^*, 12T_{134}^*$	000	[10, 0, 4, 2, 1]	
$[12, 4, 1^2]$	$(1T_1)^2$ , $4T_3^*$ , $12T_{136}^{+*}$	18T* 13824	$[18, 12, 4, 2^4, 1^{11}]$	
$[12, 4, 1^2]$	$\begin{array}{c} (1T_1)^2, \ 1T_3, \ 12T_{136} \\ (1T_1)^2, \ 4T_3^*, \ 12T_{158}^{+*} \\ \end{array}$	18T** 20736	$[18, 6^2, 4, 2^3, 1^{11}]$	
$[12, 4, 1^2]$	$(1T_1)^2, 4T_3^*, 12T_{161}^{+*}$	18T* 20736	$[18, 6^2, 4, 2^3, 1^{11}]$	
$[12, 4, 1^2]$	$(1T_1)^2$ , $4T_3^*$ , $12T_{163}^{+*}$	$18T_{640}^*$ 20736	$[18, 6^2, 4, 2^3, 1^{11}]$	
$[12, 4, 1^2]$	$(1T_1)^2, 4T_1^*, 12T_{193}^*$	$18T_{659}^{+*}$ 27648	$[18, 12, 4, 2^5, 1^{10}]$	
$[12, 4, 1^2]$	$(1T_1)^2$ , $4T_3^*$ , $12T_{193}^*$	$18T_{660}^*$ 27648	$[18, 12, 4, 2^5, 1^{10}]$	
$[12, 4, 1^2]$	$(1T_1)^2$ , $4T_3^*$ , $12T_{193}^*$	$18T_{661}^*$ 27648	$[18, 12, 4, 2^5, 1^{10}]$	
$[12, 4, 1^2]$	$(1T_1)^2$ , $4T_3^*$ , $12T_{193}^*$	$18T_{663}^*$ 27648	$[18, 12, 4, 2^5, 1^{10}]$	
$[12, 4, 1^2]$	$(1T_1)^2$ , $4T_3^*$ , $12T_{193}^*$	$18T_{734}^*$ 55296	$[18, 12, 4, 2^6, 1^9]$	
$[12, 4, 1^2]$	$(1T_1)^2$ , $4T_3^*$ , $12T_{195}^{+*}$	$18T_{698}^*$ 41472	$[18, 12, 6, 4, 2^3, 1^{11}]$	
$[12, 4, 1^2]$	$(1T_1)^2, 4T_3^*, 12T_{200}^*$	$18T_{713}^{+*}$ 41472	$[18, 6^2, 4^2, 2^2, 1^{11}]$	
$[12, 4, 1^2]$	$(1T_1)^2, 4T_3^*, 12T_{200}^*$	$18T_{716}^*$ 41472	$[18, 6^2, 4^2, 2^2, 1^{11}]$	
$[12, 4, 1^2]$	$(1T_1)^2, 4T_3^*, 12T_{200}^*$	$18T_{783}^*$ 82944	$[18, 6^2, 4^3, 2, 1^{11}]$	
$[12, 4, 1^2]$	$(1T_1)^2$ , $4T_3^*$ , $12T_{203}^{+*}$ $(1T_1)^2$ , $4T_3^*$ , $12T_{203}^{+*}$	$18T_{714}^*$ 41472	$[18, 6^2, 4^2, 2^2, 1^{11}]$	
$[12, 4, 1^2]$	$(1T_1)^2$ , $4T_3^*$ , $12T_{203}^{+*}$	$18T_{720}^*$ 41472	$[18, 6^2, 4^2, 2^2, 1^{11}]$	
$[12, 4, 1^2]$	$(1T_1)^2$ , $4T_3^*$ , $12T_{203}^{+*}$	$18T_{773}^{*}$ 82944	$[18, 6^2, 4^3, 2, 1^{11}]$	
$[12, 4, 1^2]$	$(1T_1)^2$ , $4T_3^*$ , $12T_{208}^*$	$18T_{717}^*$ 41472	$[18, 6^2, 4, 2^4, 1^{10}]$	
$[12, 4, 1^2]$	$(1T_1)^2$ , $4T_3^*$ , $12T_{208}^*$	$18T_{719}^{+*}$ 41472	$[18, 6^2, 4, 2^4, 1^{10}]$	
$[12, 4, 1^2]$	$(1T_1)^2$ , $4T_3^*$ , $12T_{208}^*$	18T <sub>772</sub> 82944	$[18, 6^2, 4, 2^5, 1^9]$	
$[12, 4, 1^2]$	$(1T_1)^2$ , $4T_3^*$ , $12T_{235}^*$	$18T_{769}^{*}$ 82944	$[18, 12, 6, 4^2, 2^2, 1^{11}]$	
$[12, 4, 1^2]$	$(1T_1)^2$ , $4T_3^*$ , $12T_{235}^*$	18T <sup>+*</sup> <sub>777</sub> 82944	$[18, 12, 6, 4^2, 2^2, 1^{11}]$	
$[12, 4, 1^2]$	$(1T_1)^2$ , $4T_3^*$ , $12T_{235}^*$	$18T_{780}^{*}$ 82944	$[18, 12, 6, 4^2, 2^2, 1^{11}]$	
$[12, 4, 1^2]$	$(1T_1)^2, 4T_3^*, 12T_{235}^*$	18T** 82944	$[18, 12, 6, 4^2, 2^2, 1^{11}]$	
$[12, 4, 1^2]$	$(1T_1)^2$ , $4T_3^*$ , $12T_{235}^*$	$18T_{837}^{*}$ 165888	$[18, 12, 6, 4^3, 2, 1^{11}]$	
$[12, 4, 1^2]$	$(1T_1)^2$ , $4T_3^*$ , $12T_{236}^{+*}$	$18T_{770}^{*}$ 82944	$[18, 12, 6, 4^2, 2^2, 1^{11}]$	
$[12, 4, 1^2]$	$(1T_1)^2$ , $4T_3^*$ , $12T_{236}^{+*}$	18T* 82944	$[18, 12, 6, 4^2, 2^2, 1^{11}]$	
$[12, 4, 1^2]$	$(1T_1)^2$ , $4T_3^*$ , $12T_{236}^{+*}$	$18T_{784}^{*}$ 82944	$[18, 12, 6, 4^2, 2^2, 1^{11}]$	
$[12, 4, 1^2]$	$(1T_1)^2$ , $4T_3^*$ , $12T_{236}^{+*}$	$18T_{785}^{*}$ 82944	$[18, 12, 6, 4^2, 2^2, 1^{11}]$	
$[12, 4, 1^2]$	$(1T_1)^2$ , $4T_3^*$ , $12T_{236}^{+*}$	$18T_{836}^*$ $165888$	$[18, 12, 6, 4^{3}, 2, 1^{11}]$	
$[12, 4, 1^2]$	$(1T_1)^2$ , $4T_3^*$ , $12T_{240}^*$	$18T_{771}^{+*}$ 82944	$[18, 12, 6, 4, 2^4, 1^{10}]$	
$[12, 4, 1^2]$	$(1T_1)^2$ , $4T_3^*$ , $12T_{240}^*$	$18T_{774}^{*}$ 82944	$[18, 12, 6, 4, 2^4, 1^{10}]$	
$[12, 4, 1^2]$	$(1T_1)^2$ , $4T_3^*$ , $12T_{240}^*$	$18T^*_{775}$ 82944	$[18, 12, 6, 4, 2^4, 1^{10}]$	
$[12, 4, 1^2]$	$(1T_1)^2$ , $4T_3^*$ , $12T_{240}^*$	$18T_{778}^{*}$ 82944	$[18, 12, 6, 4, 2^4, 1^{10}]$	
[12, 4, 1]	$(1T_1)^2$ , $4T_3^*$ , $12T_{240}^*$ $(1T_1)^2$ , $4T_3^*$ , $12T_{240}^*$	$18T_{835}^{*}$ $165888$	$[18, 12, 6, 4, 2^5, 1^9]$	
[12, 4, 1]	$(1T_1)^2$ , $4T_3$ , $12T_{240}$ $(1T_1)^2$ , $4T_3^*$ , $12T_{260}^*$	$18T_{841}^*$ $165888$	$[18, 12, 6, 4^2, 2^3, 1^{10}]$	
$[12, 4, 1]$ $[12, 4, 1^2]$	$(1T_1)^2$ , $4T_3^*$ , $12T_{260}^*$ $(1T_1)^2$ , $4T_3^*$ , $12T_{260}^*$	$18T_{842}^*$ $165888$	$[18, 12, 6, 4^2, 2^3, 1^{10}]$	
[12, 4, 1]	$(1T_1)^2$ , $4T_3^*$ , $12T_{260}^*$ $(1T_1)^2$ , $4T_3^*$ , $12T_{260}^*$	$18T_{843}^{+*}$ $165888$	$[18, 12, 6, 4^2, 2^3, 1^{10}]$	
[12, 4, 1] $[12, 4, 1^2]$	$(1T_1)^{2}, 4T_3^{3}, 12T_{260}^{*}$ $(1T_1)^{2}, 4T_3^{*}, 12T_{260}^{*}$	$18T_{843}^{+*}$ $165888$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
[12, 4, 1] $[12, 4, 1^2]$	$(1T_1)^{2}, 4T_3^{3}, 12T_{260}^{2}$ $(1T_1)^{2}, 4T_3^{*}, 12T_{260}^{*}$		$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
[12, 4, 1] $[12, 4, 1^2]$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1 000	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
[12, 4, 1] $[12, 4, 1^2]$	$(17.)^2$ $47^*$ $127^*$	1 001	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
	$(1T_1)^2, 4T_3^*, 12T_{260}^*$	$18T_{882}^{*}$ 331776		
$[12, 4, 1^2]$	$(1T_1)^2$ , $4T_3^*$ , $12T_{260}^*$	$18T_{883}^{+*}$ 331776	$[18, 12, 6, 4^3, 2^2, 1^{10}]$	
$G$ : Possible Galois Groups, $D(G)$ : Degrees of factors, $S(G)$ : Galois Groups of factors, $\mathcal{L}(G)$ : Initial Degrees				

Splitting table of degree 18

D(G)	S(G)	G   G	$\mathcal{L}(G)$
$[12, 4, 1^2]$	$(1T_1)^2, 4T_3^*, 12T_{260}^*$	$18T_{884}^*$ 331776	$[18, 12, 6, 4^3, 2^2, 1^{10}]$
$[12, 4, 1^2]$	$(1T_1)^2$ $4T^*$ $12T^*_{-2}$	$18T_{885}^*$ 331776	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[12, 4, 1^2]$	$\begin{array}{c} (1T_1)^2, \ 4T_3^*, \ 12T_{260}^* \\ (1T_1)^2, \ 4T_3^*, \ 12T_{260}^* \\ \end{array}$	$18T_{912}^*$ $663552$	$[18, 12, 6, 4^3, 2^3, 1^9]$
$[8^2, 1^2]$	$(1T_1)^2$ , $(8T_1^*)^2$		$[18, 8, 1^{16}]$
$[8^2, 1^2]$	$(1T_1)^2, (8T_1^*)^2$	$18T_{71}^*$ 144	[18, 8, 1 <sup>16</sup> ]
$[8^2, 1^2]$	$(111)$ , $(61_1)$	$18T_{64}^*$ 144	[18, 8, 1 <sup>16</sup> ]
[0, 1]	$(1T_1)^2, (8T_5^{+*})^2$	$18T_{68}^*$ 144	[18, 8, 1 <sup>16</sup> ]
$[8^2, 1^2]$	$(1T_1)^2, (8T_5^{+*})^2$	10 <i>I</i> <sub>68</sub> 144	[10, 0, 1]
$[8^2, 1^2]$	$\begin{array}{c} (1T_1)^2, (8T_8^*)^2 \\ (1T_1)^2, (8T_8^*)^2 \\ (1T_1)^2, 8T_{10}^{+*}, 8T_{16}^* \\ (1T_1)^2, 8T_{10}^{+*}, 8T_{20}^{+*} \\ \end{array}$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$[18, 8, 2, 1^{15}]$
$[8^2, 1^2]$	$(1I_1)^2$ , $8I_{10}$ , $8I_{16}$	18T <sub>184</sub> 576	$[18, 8, 2^2, 1^{14}]$
$[8^2, 1^2]$	$(1T_1)^2$ , $8T_{10}^{**}$ , $8T_{20}^{***}$	$18T_{182}^{+*}$ 576	[18, 8, 2 <sup>2</sup> , 1 <sup>14</sup> ]
$[8^2, 1^2]$		$18T_{151}^*$ 432	$[18, 8, 3, 1^{15}]$
$[8^2, 1^2]$	$(1T_1)^2$ , $(8T_{12}^{+*})^2$	$18T_{157}^*$ 432	$[18, 8, 3, 1^{15}]$
$[8^2, 1^2]$	$(1T_1)^2$ , $8T_{18}^{+*}$ , $8T_{26}^{*}$	$18T_{272}^*$ 1152	$[18, 8, 4, 2, 1^{14}]$
$[8^2, 1^2]$	$(1T_1)^2$ , $8T_{18}^{+*}$ , $8T_{29}^{+*}$	$18T_{275}^{+*}$ 1152	$[18, 8, 4, 2, 1^{14}]$
$[8^2, 1^2]$	$(1T_1)^2$ , $8T_{19}^{+*}$ , $8T_{28}^*$	$18T_{274}^{*}$ 1152	$[18, 8, 4, 2, 1^{14}]$
$[8^2, 1^2]$	$(1T_1)^2$ , $8T_{19}^{+*}$ , $8T_{30}^*$	$18T_{273}^*$ 1152	$[18, 8, 4, 2, 1^{14}]$
$[8^2, 1^2]$	$(1T_1)^2$ , $8T_{20}^{+*}$ , $8T_{27}^*$	$18T_{265}^*$ 1152	$[18, 8, 2^3, 1^{13}]$
$[8^2, 1^2]$	$\begin{array}{c} (1T_1)^2, (8T_{12}^+)^2 \\ (1T_1)^2, (8T_{12}^{++})^2 \\ (1T_1)^2, 8T_{18}^{++}, 8T_{26}^* \\ (1T_1)^2, 8T_{18}^{++}, 8T_{29}^{++} \\ (1T_1)^2, 8T_{19}^{++}, 8T_{28}^* \\ (1T_1)^2, 8T_{19}^{++}, 8T_{30}^* \\ (1T_1)^2, 8T_{20}^{++}, 8T_{27}^* \\ (1T_1)^2, (8T_{23}^+)^2 \\ (1T_1)^2, (8T_{25}^+)^2 \\ (1T_1)^2, (8T_{27}^+)^2 \\ (1T_1)^2, (8T_{27}^+)^2 \\ (1T_1)^2, (8T_{27}^+)^2 \\ \end{array}$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$[18, 8, 6, 1^{15}]$
$[8^2, 1^2]$	$(1T_1)^2, (8T_{25}^{+*})^2$	181260 1008	$[18, 8, 7, 1^{15}]$
$[8^2, 1^2]$	$(1T_1)^2, (8T_{27}^*)^2$	$ \begin{array}{rrr} 18T_{547}^{*} & 9216 \\ 18T_{549}^{+*} & 9216 \end{array} $	$[18, 8, 2^6, 1^{10}]$
$[8^2, 1^2]$	$(1T_1)^2$ , $(8T_{27}^*)^2$	$18T_{549}^{+*}$ 9216	$[18, 8, 2^6, 1^{10}]$
$[8^2, 1^2]$	$(1T_1)^2$ , $(8T_{27}^*)^2$	$18T_{625}^{*}$ $18432$	$[18, 8, 2^7, 1^9]$
$[8^2, 1^2]$	$ \begin{array}{c} (1T_1)^2, \ (8T_{27}^*)^2 \\ (1T_1)^2, \ 8T_{29}^{+*}, \ 8T_{35}^* \\ \end{array} $	$18T_{370}^{*}$ 2304	$[18, 8, 4, 2^2, 1^{13}]$
$[8^2, 1^2]$	$(1T_1)^2$ , $(8T_{2r}^*)^2$	$18T_{626}^{*}$ $18432$	$[18, 8, 4, 2^5, 1^{10}]$
$[8^2, 1^2]$	$(1T_1)^2$ , $(8T_{2r}^*)^2$	$18T_{627}^*$ $18432$	$[18, 8, 4, 2^5, 1^{10}]$
$[8^2, 1^2]$	$\begin{array}{c} (1T_1)^2, (8T_{35}^*)^2 \\ (1T_1)^2, (8T_{35}^{+*})^2 \\ (1T_1)^2, (8T_{36}^{+*})^2 \\ \end{array}$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$[18, 8, 4, 2^5, 1^{10}]$
$[8^2, 1^2]$	$(1T_1)^2$ , $(8T_{sr}^*)^2$	$18T_{691}^*$ 36864	$   \begin{bmatrix}     18, 8, 4, 2^6, 1^9   \end{bmatrix}   $
$[8^2, 1^2]$	$(1T_1)^2 (8T_1^{+*})^2$	$18T_{427}$ 3024	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[8^2, 1^2]$	(17), $(07)$	$18T_{887}$ $362880$	[18, 8, 7, 6, 5, 4, 3, 1 <sup>11</sup> ]
$[8^2, 1^2]$	$\frac{(1T_1)^2, (8T_{49}^+)^2}{(1T_1)^2, (8T_{49}^+)^2}$ $\frac{(1T_1)^2, (8T_{49}^+)^2}{(1T_1)^2, (8T_{49}^+)^2}$	$18T_{888}$ $362880$	[18, 8, 7, 6, 5, 4, 3, 1 <sup>11</sup> ]
$[8^2, 1^2]$	$(17)$ , $(07_{49})$	$18T_{913}$ $725760$	$[18, 8, 7, 6, 5, 4, 3, 2, 1^{10}]$
$[16, 1^2]$	(17), $(0150)$	$ \begin{array}{c ccccc} 18T_{913} & 725760 \\ 18T_{622}^{+*} & 18432 \end{array} $	[10, 0, 7, 0, 0, 4, 0, 2, 1]
[16, 1]	$ \begin{array}{c} (1T_1)^2, (8T_{50})^2 \\ (1T_1)^2, (8T_{50})^2 \\ (1T_1)^2, 16T_{1194}^{+*} \\ (1T_1)^2, 16T_{1197}^{+*} \\ \end{array} $	$ \begin{array}{ccc} 18T_{622}^{+*} & 18432 \\ 18T_{628}^{+*} & 18432 \end{array} $	$ \begin{array}{c} [18, 16, 2^6, 1^{10}] \\ [18, 16, 2^6, 1^{10}] \end{array} $
[10, 1]	$(17)$ , $101_{1197}$	101 <sub>628</sub> 10432	$[18, 16, 2^{\circ}, 1]$ $[18, 16, 2^{\circ}, 1^{10}]$
$ \begin{array}{c c} \hline [16, 1^2] \\ \hline [16, 1^2] \end{array} $	$(1T_1)^2$ , $16T_{1210}^*$	$ \begin{array}{c cccc} 18T_{629}^{**} & 18432 \\ 18T_{624}^{**} & 18432 \end{array} $	$[18, 16, 2^{\circ}, 1^{\circ}]$ $[18, 16, 2^{\circ}, 1^{10}]$
	$(1T_1)^2$ , $16T_{1223}^*$	181 <sub>624</sub> 18432	
$[16, 1^2]$	$(1T_1)^2$ , $16T_{1351}^*$	18T** 36864	$[18, 16, 2^7, 1^9]$
$[16, 1^2]$	$(1T_1)^2$ , $16T_{1469}^*$	$18T_{695}^*$ $36864$	$[18, 16, 4, 2^5, 1^{10}]$
$[16, 1^2]$	$(1T_1)^2$ , $16T_{1484}^*$	18T <sub>690</sub> 36864	$[18, 16, 2^7, 1^9]$
$[16, 1^2]$	$(1T_1)^2$ , $16T_{1487}^*$	$18T_{694}^*$ $36864$	$[18, 16, 4, 2^5, 1^{10}]$
$[16, 1^2]$	$(1T_1)^2$ , $16T_{1489}^*$	$18T_{693}^*$ $36864$	$[18, 16, 4, 2^5, 1^{10}]$
$[16, 1^2]$	$(1T_1)^2$ , $16T_{1491}^{+*}$	$18T_{692}^{+*}$ 36864	$[18, 16, 4, 2^5, 1^{10}]$
$[16, 1^2]$	$(1T_1)^2$ , $16T_{1542}^{+*}$	$18T_{735}^{+*}$ 55296	$[18, 16, 6, 2^5, 1^{10}]$
$[16, 1^2]$	$(1T_1)^2$ , $16T_{1643}^*$	$18T_{763}^*$ 73728	$[18, 16, 4, 2^6, 1^9]$
$[16, 1^2]$	$(1T_1)^2$ , $16T_{1670}^*$	$18T_{799}^*$ $110592$	$[18, 16, 6, 2^6, 1^9]$
$[16, 1^2]$	$(1T_1)^2$ , $16T_{1685}^{+*}$	$18T_{801}^{+*}$ $110592$	$[18, 16, 12, 2^5, 1^{10}]$
G:	Possible Galois Groups, $D(G)$ : Degree	ees of factors, $S(\overline{G})$ : Galois Grou	ps of factors, $\mathcal{L}(G)$ : Initial Degrees
i .			

Splitting table of degree 18

D(G)	S(G)	G $G$	$\mathcal{L}(G)$		
$[16, 1^2]$	$(1T_1)^2, 16T_{1692}^*$	$18T_{800}^*$ $1108$	. , ,		
$[16, 1^2]$	$(1T_1)^2$ , $16T_{1694}^{+*}$	$18T_{802}^{+}$ 1290			
$[16, 1^2]$	$(1T_1)^2$ , $16T_{1761}^*$	$18T_{854}^*$ 221			
$[16, 1^2]$	$(1T_1)^2$ , $16T_{1768}^*$	$18T_{855}$ $2580$			
$[16, 1^2]$	$(1T_1)^2$ , $16T_{1800}^{+*}$	$18T_{890}^{+}$ $3870$			
$[16, 1^2]$	$(1T_1)^2$ , $16T_{1841}^*$	$18T_{914}$ $774$			
$[16, 1^2]$	$(1T_1)^2$ , $16T_{1938}^+$	-	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		
$[16, 1^2]$	$(1T_1)^2$ , $16T_{1938}$		97280 [18, 16, 14, 12, 10, 8, 6, 2 <sup>2</sup> , 1 <sup>9</sup> ]		
$[16, 1^2]$	$(1T_1)^2$ , $16T_{1945}^+$		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		
$[16, 1^2]$	$(1T_1)^2$ , $16T_{1946}$	$18T_{965}$ 9289	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		
$[16, 1^2]$	$(1T_1)^2$ , $16T_{1948}$		794560 [18, 16, 14, 12, 10, 8, 6, 4, 2, 1 <sup>9</sup> ]		
$[6, 3, 2^4, 1]$	$1T_1, (2T_1)^4, 3T_2^*, 6T_2^*$	$18T_{50}^{*}$ $108$			
$[6, 3, 2^4, 1]$	$1T_1, (2T_1)^4, 3T_2^*, 6T_2^*$	$18T_{58}^{*}$ 108	[18, 3, 2, 1 <sup>15</sup> ]		
$[9, 2^4, 1]$	$1T_1, (2T_1)^4, 9T_3^{+*}$	$18T_{130}^*$ 324			
$[9, 2^4, 1]$	$1T_1, (2T_1)^4, 9T_3^{+*}$	$18T_{140}^*$ 324			
$[9, 2^4, 1]$	$1T_1, (2T_1)^4, 9T_3^{+*}$	$18T_{211}^*$ 648			
$[9, 2^4, 1]$	$1T_1, (2T_1)^4, 9T_5^{+*}$	$18T_{128}^*$ 324			
$[9, 2^4, 1]$	$1T_1, (2T_1)^4, 9T_5^{+*}$	$18T_{138}^*$ 324			
$[9, 2^4, 1]$	$1T_1, (2T_1)^4, 9T_5^{+*}$	$18T_{213}^*$ 648			
$[6, 4, 3, 2^2, 1]$	$1T_1, (2T_1)^2, 3T_2^*, 4T_2^{+*}, 6T_3^*$	$18T_{95}^{+*}$ 216			
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$1T_1, (2T_1)^2, 3T_2^*, 4T_2^{+*}, 6T_2^*$	$18T_{96}^{*}$ 216			
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$ \begin{array}{c} 1T_1, \ (2T_1)^2, \ 3T_2^*, \ 4T_2^{+*}, \ 6T_3^* \\ 1T_1, \ (2T_1)^2, \ 3T_2^*, \ 4T_2^{+*}, \ 6T_3^* \end{array} $	$18T_{104}^*$ 216			
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$1T_1, (2T_1)^2, 3T_2^*, 4T_2^{+*}, 6T_3^*$	$18T_{106}^*$ 216			
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$1T_1, (2T_1)^2, 3T_2^*, 4T_2^{+*}, 6T_3^*$	$18T_{150}^{*}$ 432			
$     \begin{bmatrix}       0, & 4, & 2^2, & 1     \end{bmatrix}   $	$1T_1, (2T_1)^2, 4T_2^{+*}, 9T_8^*$	$18T_{190}^{*}$ 648			
$[9, 4, 2^2, 1]$	$1T_1, (2T_1)^2, 4T_2^{+*}, 9T_8^*$	$18T_{193}^*$ 648			
$[9, 4, 2^2, 1]$	$1T_1, (2T_1)^2, 4T_2^{+*}, 9T_8^*$	$18T_{195}^{+*}$ 648			
$[9, 4, 2^2, 1]$	$1T_1, (2T_1)^2, 4T_2^{+*}, 9T_8^*$	$18T_{210}^*$ 648			
$[9, 4, 2^2, 1]$	$1T_1, (2T_1)^2, 4T_2^{+*}, 9T_8^*$	$18T_{216}^*$ 648			
$[9, 4, 2^2, 1]$	$1T_1, (2T_1)^2, 4T_2^{+*}, 9T_8^*$	$18T_{287}^*$ 1290			
$[9, 4, 2^2, 1]$	$1T_1, (2T_1)^2, 4T_2^{+*}, 9T_2^*$	$18T_{289}^*$ 1290			
$[9, 4, 2^2, 1]$		$18T_{295}^{+*}$ 129			
$[9, 4, 2^2, 1]$	$1T_1, (2T_1)^2, 4T_2^{+*}, 9T_8^*$	$18T_{296}^*$ 129			
$[9, 4, 2^2, 1]$	$1T_1, (2T_1)^2, 4T_2^{+*}, 9T_8^*$	$18T_{388}^*$ 2593			
$[3^5, 2, 1]$	$1T_1, 2T_1, (3T_2^*)^5$	$18T_{124}^*$ 324	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		
$[3^5, 2, 1]$	$1T_1, 2T_1, (3T_2^*)^5$	$18T_{133}^*$ 324			
$[3^5, 2, 1]$	$1T_1, 2T_1, (3T_2^*)^5$	$18T_{234}^*$ 972			
$[3^5, 2, 1]$	$1T_1, 2T_1, (3T_2^*)^5$	$18T_{238}^*$ 972			
$[3^5, 2, 1]$	$1T_1, 2T_1, (3T_2^*)^5$	$18T_{240}^{+*}$ 972			
$[3^5, 2, 1]$	$1T_1, 2T_1, (3T_2^*)^5$	$18T_{254}^*$ 972			
$[3^5, 2, 1]$	$1T_1, 2T_1, (3T_2^*)^5$	$18T_{256}^*$ 972			
$[3^5, 2, 1]$	$1T_1, 2T_1, (3T_2^*)^5$	$18T_{258}^{+*}$ 972			
$[3^5, 2, 1]$	$1T_1, 2T_1, (3T_2)^5$	$18T_{339}^*$ $194$			
$[3^5, 2, 1]$	$1T_1, 2T_1, (3T_2^*)^5$	$18T_{351}^*$ 194			
$[3^5, 2, 1]$	$1T_1, 2T_1, (3T_2)^5$	$18T_{408}^{*}$ 2910			
			alois Groups of factors, $\mathcal{L}(G)$ : Initial Degrees		
2. 1 million distance distance di financia					

Splitting table of degree 18

D(G)	S(G)	G   G	$\mathcal{L}(G)$
$[3^5, 2, 1]$	$1T_1, 2T_1, (3T_2^*)^5$	$18T_{426}^*$ 2916	$[18, 3^4, 2, 1^{12}]$
$[3^5, 2, 1]$	$1T_1, 2T_1, (3T_2^*)^5$	$18T_{530}^{+*}$ 8748	$[18, 3^5, 2, 1^{11}]$
$[3^5, 2, 1]$	$1T_1, 2T_1, (3T_2^*)^5$	$18T_{532}^{*}$ 8748	$[18, 3^5, 2, 1^{11}]$
$[3^5, 2, 1]$	$1T_1, 2T_1, (3T_2^*)^5$	$18T_{538}^{+*}$ 8748	$[18, 3^5, 2, 1^{11}]$
$[3^5, 2, 1]$	$1T_1, 2T_1, (3T_2^*)^5$	$18T_{539}^{*}$ 8748	$[18, 3^5, 2, 1^{11}]$
$[3^5, 2, 1]$	$1T_1, 2T_1, (3T_2^*)^5$	$18T_{500}^{*}$ 17496	$[18, 3^5, 2^2, 1^{10}]$
$[3^5, 2, 1]$	$1T_1, 2T_1, (3T_2^*)^5$	$18T_{609}^*$ $17496$ $18T_{616}^*$ $17496$ $18T_{619}^*$ $17496$ $18T_{669}^*$ $34992$	$[18, 3^5, 2^2, 1^{10}]$
$[3^5, 2, 1]$	$1T_1, 2T_1, (3T_2^*)^5$	$18T_{616}^{*}$ 17496	$[18, 3^5, 2^2, 1^{10}]$
$[3^5, 2, 1]$	$1T_1, 2T_1, (3T_2^*)^5$	$18T_{619}^*$ 17496	$[18, 3^5, 2^2, 1^{10}]$
$[3^5, 2, 1]$	$1T_1, 2T_1, (3T_2^*)^5$	$18T_{669}^*$ 34992	$[18, 3^5, 2^3, 1^9]$
$[3^5, 2, 1]$	$1T_1, 2T_1, (3T_2^*)^5$	$18T_{671}^{+*}$ 34992	$[18, 3^5, 2^3, 1^9]$
$[3^5, 2, 1]$	$1T_1, 2T_1, (3T_2^*)^5$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$[18, 3^5, 2^3, 1^9]$
$[3^5, 2, 1]$	$1T_1, 2T_1, (3T_2^*)^5$	$18T_{682}^{+*}$ 34992	$[18, 3^5, 2^3, 1^9]$
$[3^5, 2, 1]$	$1T_1, 2T_1, (3T_2^*)^5$	$18T_{738}^*$ 69984	$[18, 3^5, 2^4, 1^8]$
$[3^5, 2, 1]$	$1T_1, 2T_1, (3T_2^*)^5$	$18T_{745}^{*}$ 69984	$[18, 3^5, 2^4, 1^8]$
$[3^5, 2, 1]$	$1T_1, 2T_1, (3T_2^*)^5$	$18T_{749}^{*}$ 69984	$[18, 3^5, 2^4, 1^8]$
$[3^5, 2, 1]$	$1T_1, 2T_1, (3T_2^*)^5$	$18T_{761}^{*}$ 69984	$[18, 3^5, 2^4, 1^8]$
$[3^5, 2, 1]$	$1T_1, 2T_1, (3T_2^*)^5$	$18T_{806}^{*}$ 139968	$[18, 3^5, 2^5, 1^7]$
$[3^5, 2, 1]$	$1T_1, 2T_1, (3T_2^*)^5$	$18T_{808}^{+*}$ 139968	$[18, 3^5, 2^5, 1^7]$
$[3^5, 2, 1]$	$1T_1, 2T_1, (3T_2^*)^5$	$18T_{227}^*$ 139968	$[18, 3^5, 2^5, 1^7]$
$[3^5, 2, 1]$	$1T_1, 2T_1, (3T_2^*)^5$	18T <sup>+*</sup> <sub>830</sub> 139968	$[18, 3^5, 2^5, 1^7]$
$[3^5, 2, 1]$	$1T_1, 2T_1, (3T_2^*)^5$	$18T_{857}^{*}$ 279936	$[18, 3^5, 2^6, 1^6]$
$[3^5, 2, 1]$	$1T_1, 2T_1, (3T_2^*)^5$	$ \begin{array}{rrrr} 321 \\ 18T_{830}^{+*} & 139968 \\ 18T_{857}^{*} & 279936 \\ 18T_{874}^{*} & 279936 \end{array} $	$[18, 3^5, 2^6, 1^6]$
$[9, 3^2, 2, 1]$	$1T_1, 2T_1, (3T_2^*)^2, 9T_{13}^*$	$18T_{239}^*$ 972	$[18, 9, 3, 2, 1^{14}]$
$[9, 3^2, 2, 1]$	$1T_1, 2T_1, (3T_2^*)^2, 9T_{13}^*$	$18T_{409}^{*}$ 2916	$[18, 9, 3^2, 2, 1^{13}]$
$[9, 3^2, 2, 1]$	$1T_1, 2T_1, (3T_2^*)^2, 9T_{13}^*$	$18T_{412}^{+*}$ 2916	$[18, 9, 3^2, 2, 1^{13}]$
$[9, 3^2, 2, 1]$	$1T_1, 2T_1, (3T_2^*)^2, 9T_{13}^*$	$18T_{492}^{*}$ 5832	$[18, 9, 3^2, 2^2, 1^{12}]$
$[9, 3^2, 2, 1]$	$1T_1, 2T_1, (3T_2^*)^2, 9T_{22}^*$	$18T_{534}^{*}$ 8748	$[18, 9, 3^3, 2, 1^{12}]$
$[9, 3^2, 2, 1]$	$1T_1, 2T_1, (3T_2^*)^2, 9T_{22}^*$	$18T^*_{650}$ 26244	$[18, 9, 3^4, 2, 1^{11}]$
$[9, 3^2, 2, 1]$	$1T_1, 2T_1, (3T_2^*)^2, 9T_{22}^*$	$18T_{651}^{+*}$ 26244	$[18, 9, 3^4, 2, 1^{11}]$
$[9, 3^2, 2, 1]$	$1T_1, 2T_1, (3T_2^*)^2, 9T_{22}^*$	$18T^*_{725}$ 52488	$[18, 9, 3^4, 2^2, 1^{10}]$
$[9, 3^2, 2, 1]$	$1T_1, 2T_1, (3T_2^*)^2, 9T_{25}^{+*}$	$18T_{853}^{*}$ 209952	$[18, 9, 3^4, 2^4, 1^8]$
$[9, 3^2, 2, 1]$	$1T_1, 2T_1, (3T_2^*)^2, 9T_{28}^*$	$18T_{891}^*$ 419904	$[18, 9, 3^4, 2^5, 1^7]$
$[9, 3^2, 2, 1]$	$1T_1, 2T_1, (3T_2^*)^2, 9T_{28}^*$	$18T_{892}^{+*}$ 419904	$[18, 9, 3^4, 2^5, 1^7]$
$[9, 3^2, 2, 1]$	$1T_1, 2T_1, (3T_2^*)^2, 9T_{28}^*$	$18T_{915}^{*}$ 839808	$[18, 9, 3^4, 2^6, 1^6]$
$[6^2, 3, 2, 1]$	$1T_1, 2T_1, 3T_2^*, 6T_1^*, 6T_5^*$	$18T_{121}^{*}$ 324	$[18, 3^2, 2, 1^{14}]$
$[6^2, 3, 2, 1]$	$1T_1, 2T_1, 3T_2^*, 6T_1^*, 6T_5^*$	$18T_{122}^*$ 324	$[18, 3^2, 2, 1^{14}]$
$[6^2, 3, 2, 1]$	$1T_1, 2T_1, 3T_2^*, 6T_1^*, 6T_5^*$	$18T_{132}^*$ 324	$[18, 3^2, 2, 1^{14}]$
$[6^2, 3, 2, 1]$	$1T_1, 2T_1, 3T_2^*, 6T_1^*, 6T_5^*$	$18T_{139}^*$ 324	$[18, 3^2, 2, 1^{14}]$
$[6^2, 3, 2, 1]$	$1T_1, 2T_1, 3T_2^*, 6T_1^*, 6T_5^*$	$18T_{232}^{*}$ 972	$[18, 3^3, 2, 1^{13}]$
$[6^2, 3, 2, 1]$	$1T_1, 2T_1, 3T_2^*, 6T_1^*, 6T_5^*$	$18T_{236}^*$ 972	$[18, 3^3, 2, 1^{13}]$
$[6^2, 3, 2, 1]$	$1T_1, 2T_1, 3T_2^*, (6T_3^*)^2$	$18T_{105}^{*}$ 216	$[18, 3, 2^2, 1^{14}]$
$[6^2, 3, 2, 1]$	$1T_1, 2T_1, 3T_2^*, 6T_3^*, 6T_9^*$	$18T_{191}^{*}$ 648	$[18, 6, 3, 2, 1^{14}]$
$[6^2, 3, 2, 1]$	$1T_1, 2T_1, 3T_2^*, 6T_3^*, 6T_9^*$	$18T_{342}^{*}$ 1944	$[18, 6, 3^2, 2, 1^{13}]$
$[6^2, 3, 2, 1]$	$1T_1, 2T_1, 3T_2^*, 6T_3^*, 6T_9^*$	$18T_{344}^{+*}$ 1944	$[18, 6, 3^2, 2, 1^{13}]$
G: Po	ssible Galois Groups, $D(G)$ : Degrees of		of factors, $\mathcal{L}(G)$ : Initial Degrees

Splitting table of degree 18

D(G)	S(G)	G   G	$\mathcal{L}(G)$	
$[6^2, 3, 2, 1]$	$1T_1, 2T_1, 3T_2^*, 6T_3^*, 6T_9^*$	$18T^*_{350}$ 1944	$[18, 6, 3^2, 2, 1^{13}]$	
$[6^2, 3, 2, 1]$	$1T_1, 2T_1, 3T_2^*, 6T_3^*, 6T_9^*$	$18T_{354}^{*}$ 1944	$[18, 6, 3^2, 2, 1^{13}]$	
$[6^2, 3, 2, 1]$	$1T_1, 2T_1, 3T_2^*, 6T_3^*, 6T_9^*$	$18T_{441}^{*}$ 3888	$[18, 6, 3^2, 2^2, 1^{12}]$	
$[6^2, 3, 2, 1]$	$1T_1, 2T_1, 3T_2^*, (6T_5^*)^2$	$18T_{142}^{+*}$ 324	$[18, 3^2, 2, 1^{14}]$	
$[6^2, 3, 2, 1]$	$1T_1, 2T_1, 3T_2^*, (6T_5^*)^2$	$18T_{252}^{*}$ 972	$[18, 3^3, 2, 1^{13}]$	
$[6^2, 3, 2, 1]$	$1T_1, 2T_1, 3T_2^*, (6T_5^*)^2$	$18T_{255}^{*}$ 972	$[18, 3^3, 2, 1^{13}]$	
$[6^2, 3, 2, 1]$	$1T_1, 2T_1, 3T_2^*, (6T_5^*)^2$	$18T^*_{257}$ 972	$[18, 3^3, 2, 1^{13}]$	
$[6^2, 3, 2, 1]$	$1T_1, 2T_1, 3T_2^*, (6T_5^*)^2$	$18T_{407}^*$ 2916	$[18, 3^4, 2, 1^{12}]$	
$[6^2, 3, 2, 1]$	$ 1T_1, 2T_1, 3T_2^*, (6T_5^*)^2 $	$18T_{411}^*$ 2916	$[18, 3^4, 2, 1^{12}]$	
$[6^2, 3, 2, 1]$	$1T_1, 2T_1, 3T_2^*, (6T_5^*)^2$	$18T_{422}^*$ 2916	$[18, 3^4, 2, 1^{12}]$	
$[6^2, 3, 2, 1]$	$1T_1, 2T_1, 3T_2^*, (6T_5^*)^2$	$18T_{542}^{*}$ 8748	$[18, 3^5, 2, 1^{11}]$	
$[6^2, 3, 2, 1]$	$1T_1, 2T_1, 3T_2^*, (6T_5^*)^2$	$18T_{543}^{+*}$ 8748	$[18, 3^5, 2, 1^{11}]$	
$[6^2, 3, 2, 1]$	$1T_1, 2T_1, 3T_2^*, 6T_5^*, 6T_9^*$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$[18, 6, 3^4, 2, 1^{11}]$	
$[6^2, 3, 2, 1]$	$1T_1, 2T_1, 3T_2^*, (6T_9^*)^2$	$18T_{206}^{+*}$ 648	$[18, 6, 3, 2, 1^{14}]$	
$[6^2, 3, 2, 1]$	$1T_1, 2T_1, 3T_2^*, (6T_9^*)^2$	$18T_{341}^*$ 1944	$[18, 6, 3^2, 2, 1^{13}]$	
$[6^2, 3, 2, 1]$	$1T_1, 2T_1, 3T_2^*, (6T_9^*)^2$	$18T_{347}^*$ 1944	$[18, 6, 3^2, 2, 1^{13}]$	
$[6^2, 3, 2, 1]$	$1T_1, 2T_1, 3T_2^*, (6T_9^*)^2$	$18T_{348}^{+*}$ 1944	$[18, 6, 3^2, 2, 1^{13}]$	
$[6^2, 3, 2, 1]$	$1T_1, 2T_1, 3T_2^*, (6T_9^*)^2$	$18T_{439}^*$ 3888	$[18, 6^2, 3, 2, 1^{13}]$	
$[6^2, 3, 2, 1]$	$1T_1, 2T_1, 3T_2^*, (6T_9^*)^2$	$18T_{494}^{*}$ 5832	$[18, 6, 3^3, 2, 1^{12}]$	
$[6^2, 3, 2, 1]$	$1T_1, 2T_1, 3T_2^*, (6T_9^*)^2$	$18T_{502}^{+*}$ 5832	$[18, 6, 3^3, 2, 1^{12}]$	
$[6^2, 3, 2, 1]$	$1T_1, 2T_1, 3T_2^*, (6T_9^*)^2$	18T* 5832	$[18, 6, 3^3, 2, 1^{12}]$	
$[6^2, 3, 2, 1]$	$1T_1, 2T_1, 3T_2^*, (6T_9^*)^2$	18T* 11664	$[18, 6^2, 3^2, 2, 1^{12}]$	
$[6^2, 3, 2, 1]$	$1T_1, 2T_1, 3T_2^*, (6T_9^*)^2$	18T* 17496	$[18, 6, 3^4, 2, 1^{11}]$	
$[6^2, 3, 2, 1]$	$1T_1, 2T_1, 3T_2^*, (6T_9^*)^2$	$18T_{602}^{+*}$ $17496$	$[18, 6, 3^4, 2, 1^{11}]$	
$[6^2, 3, 2, 1]$	$1T_1, 2T_1, 3T_2^*, (6T_9^*)^2$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$[18, 6, 3^4, 2, 1^{11}]$	
$[6^2, 3, 2, 1]$	$1T_1, 2T_1, 3T_2^*, (6T_9^*)^2$	18T <sup>+*</sup> <sub>607</sub> 17496	$[18, 6, 3^4, 2, 1^{11}]$	
$[6^2, 3, 2, 1]$	$1T_1, 2T_1, 3T_2^*, (6T_9^*)^2$	18T* 17496	$[18, 6, 3^4, 2, 1^{11}]$	
$[6^2, 3, 2, 1]$	$1T_1, 2T_1, 3T_2^*, (6T_9^*)^2$	18T* 17496	$[18, 6, 3^4, 2, 1^{11}]$	
$[6^2, 3, 2, 1]$	$1T_1, 2T_1, 3T_2^*, (6T_9^*)^2$	18T* 17496	$[18, 6, 3^4, 2, 1^{11}]$	
$[6^2, 3, 2, 1]$	$1T_1, 2T_1, 3T_2^*, (6T_9^*)^2$	18T* 34992	$   \begin{bmatrix}     18, 6, 3^4, 2^2, 1^{10} \\     18, 6^2, 3^3, 2, 1^{11}   \end{bmatrix} $	
$[6^2, 3, 2, 1]$	$1T_1, 2T_1, 3T_2^*, (6T_9^*)^2$	$18T_{673}^{*}$ $34992$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$[6^2, 3, 2, 1]$	$1T_1, 2T_1, 3T_2^*, (6T_9^*)^2$	$18T_{675}^{*}$ $34992$ $18T_{687}^{+*}$ $34992$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$1T_1, 2T_1, 3T_2^*, (6T_9^*)^2$ $1T_1, 2T_1, 3T_2^*, (6T_9^*)^2$	001	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$			$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$1T_1, 2T_1, 3T_2, (6T_9)$ $1T_1, 2T_1, 3T_2^*, (6T_9^*)^2$	$ \begin{array}{ c c c c } \hline 18T_{743}^{+*} & 69984 \\ \hline 18T_{807}^{*} & 139968 \end{array} $	$   \begin{bmatrix}     18, 6, 3, 2, 1 \\     18, 6^2, 3^3, 2^3, 1^9   \end{bmatrix} $	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$1T_1, 2T_1, 3T_2, (6T_9)$ $1T_1, 2T_1, 3T_2^*, 6T_9^*, 6T_{10}^{+*}$		$[18, 3^5, 2^4, 1^8]$	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$1T_1, 2T_1, 3T_2, 6T_9, 6T_{10}$ $1T_1, 2T_1, 3T_2^*, 6T_9^*, 6T_{13}^*$	100	$ \begin{bmatrix} 18, 6, 3^4, 2^4, 1^8 \end{bmatrix} $	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$1T_1, 2T_1, 3T_2, 0T_9, 0T_{13}$ $1T_1, 2T_1, 3T_2^*, (6T_{10}^{+*})^2$	$ \begin{array}{ c c c } \hline 18T_{812}^{+*} & 139968 \\ \hline 18T_{688}^{+*} & 34992 \end{array} $	$   \begin{bmatrix}     13, 6, 3, 2, 1 \\     18, 6, 3^4, 2^2, 1^{10}   \end{bmatrix} $	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$1T_1, 2T_1, 3T_2, (6T_{10})$ $1T_1, 2T_1, 3T_2^*, (6T_{10}^{+*})^2$	$18T_{746}^{+*}$ 69984	$   \begin{bmatrix}     18, 6, 3^4, 2^3, 1^9 \end{bmatrix} $	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$1T_1, 2T_1, 3T_2, (6T_{10})$ $1T_1, 2T_1, 3T_2^*, (6T_{10}^{+*})^2$	$18T_{810}^{+*}$ $139968$	$   \begin{bmatrix}     18, 6, 3, 2, 1 \\     18, 6^2, 3^3, 2^3, 1^9   \end{bmatrix} $	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$1T_1, 2T_1, 3T_2, (6T_{10})$ $1T_1, 2T_1, 3T_2^*, 6T_{10}^{+*}, 6T_{13}^*$	$18T_{813}^*$ $139968$	$[18, 6, 3^4, 2^4, 1^8]$	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ T_1, 2T_1, 3T_2, 6T_{10}, 6T_{13} $ $ T_1, 2T_1, 3T_2^*, (6T_{13}^*)^2$	$18T_{683}^*$ $34992$	$[18, 6, 3^4, 2^2, 1^{10}]$	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$ T_1, 2T_1, 3T_2, (6T_{13}) $ $ T_1, 2T_1, 3T_2^*, (6T_{13}^*)^2$	$18T_{686}^*$ 34992	$[18, 6, 3^4, 2^2, 1^{10}]$	
$[6^2, 3, 2, 1]$	$1T_1, 2T_1, 3T_2, (6T_{13})$ $1T_1, 2T_1, 3T_2^*, (6T_{13}^*)^2$	$18T_{739}^{*}$ 69984	$[18, 6, 3^4, 2^3, 1^9]$	
	ssible Galois Groups, $D(G)$ : Degrees of	-	1	
2. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.				

Splitting table of degree 18

D(0)			1 4(0)
D(G)	S(G)	$G \mid G \mid$	$\mathcal{L}(G)$
$[6^2, 3, 2, 1]$	$1T_1, 2T_1, 3T_2^*, (6T_{13}^*)^2$	$18T_{741}^{+*}$ 69984	$[18, 6, 3^4, 2^3, 1^9]$
$[6^2, 3, 2, 1]$	$1T_1, 2T_1, 3T_2^*, (6T_{13}^*)^2$	$18T_{744}^{*}$ 69984	$[18, 6, 3^4, 2^3, 1^9]$
$[6^2, 3, 2, 1]$	$ 1T_1, 2T_1, 3T_2^*, (6T_{13}^*)^2$	$18T_{747}^*$ 69984	$[18, 6, 3^4, 2^3, 1^9]$
$[6^2, 3, 2, 1]$	$1T_1, 2T_1, 3T_2^*, (6T_{13}^*)^2$	$18T_{748}^*$ 69984	$[18, 6, 3^4, 2^3, 1^9]$
$[6^2, 3, 2, 1]$	$1T_1, 2T_1, 3T_2^*, (6T_{13}^*)^2$	$18T_{750}^{*}$ 69984	$[18, 3^5, 2^4, 1^8]$
$[6^2, 3, 2, 1]$	$1T_1, 2T_1, 3T_2^*, (6T_{13}^*)^2$	$18T_{751}^{*}$ 69984	$[18, 3^5, 2^4, 1^8]$
$[6^2, 3, 2, 1]$	$1T_1, 2T_1, 3T_2^*, (6T_{13}^*)^2$	$18T_{803}^{+*}$ 139968	$[18, 6, 3^4, 2^4, 1^8]$
$[6^2, 3, 2, 1]$	$1T_1, 2T_1, 3T_2^*, (6T_{13}^*)^2$	$18T_{804}^{*}$ 139968	$[18, 6, 3^4, 2^4, 1^8]$
$[6^2, 3, 2, 1]$	$1T_1, 2T_1, 3T_2^*, (6T_{13}^*)^2$	$18T_{805}^{*}$ 139968	$[18, 6, 3^4, 2^4, 1^8]$
$[6^2, 3, 2, 1]$	$1T_1, 2T_1, 3T_2^*, (6T_{13}^*)^2$	$18T_{809}^*$ 139968	$[18, 6, 3^4, 2^4, 1^8]$
$[6^2, 3, 2, 1]$	$1T_1, 2T_1, 3T_2^*, (6T_{13}^*)^2$	$18T_{811}^*$ 139968	$[18, 6, 3^4, 2^4, 1^8]$
$[6^2, 3, 2, 1]$	$1T_1, 2T_1, 3T_2^*, (6T_{13}^{**})^2$	$18T_{814}^{*}$ 139968	$[18, 6, 3^4, 2^4, 1^8]$
$[6^2, 3, 2, 1]$	$1T_1, 2T_1, 3T_2^*, (6T_{13}^*)^2$	$18T_{831}^{*}$ 139968	$[18, 6, 3^4, 2^4, 1^8]$
$[6^2, 3, 2, 1]$	$1T_1, 2T_1, 3T_2^*, (6T_{13}^*)^2$	$18T_{832}^{*}$ 139968	$[18, 6, 3^4, 2^4, 1^8]$
$[6^2, 3, 2, 1]$	$1T_1, 2T_1, 3T_2^*, (6T_{13}^*)^2$	$18T_{858}^{*}$ 279936	$[18, 6^2, 3^3, 2^4, 1^8]$
$[6^2, 3, 2, 1]$	$1T_1, 2T_1, 3T_2^*, (6T_{13}^*)^2$	$18T_{859}^{*}$ 279936	$[18, 6, 3^4, 2^5, 1^7]$
$[6^2, 3, 2, 1]$	$1T_1, 2T_1, 3T_2^*, (6T_{13}^*)^2$	$18T_{860}^{*}$ 279936	$[18, 6^2, 3^3, 2^4, 1^8]$
$[6^2, 3, 2, 1]$	$1T_1, 2T_1, 3T_2^*, (6T_{13}^*)^2$	$18T_{866}^{+*}$ 279936	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[6^2, 3, 2, 1]$	$1T_1, 2T_1, 3T_2^*, (6T_{13}^*)^2$	$18T_{868}^*$ 279936	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[6^2, 3, 2, 1]$	$1T_1, 2T_1, 3T_2^*, (6T_{13}^*)^2$	$18T_{875}^*$ 279936	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[6^2, 3, 2, 1]$	$1T_1, 2T_1, 3T_2^*, (6T_{13}^*)^2$	$18T_{876}^*$ 279936	$   \begin{bmatrix}     18, 6, 3^4, 2^5, 1^7   \end{bmatrix}   $
$[6^2, 3, 2, 1]$	$1T_1, 2T_1, 3T_2^*, (6T_{13}^*)^2$	$18T_{878}^{+*}$ 279936	$   \begin{bmatrix}     18, 6, 3^4, 2^5, 1^7   \end{bmatrix}   $
$[6^2, 3, 2, 1]$	$1T_1, 2T_1, 3T_2^*, (6T_{13}^*)^2$	$18T_{903}^*$ 559872	$   \begin{bmatrix}     18, 6, 3^4, 2^6, 1^6   \end{bmatrix} $
$[6^2, 3, 2, 1]$	$1T_1, 2T_1, 3T_2, (6T_{13})$ $1T_1, 2T_1, 3T_2^*, (6T_{13}^*)^2$	$18T_{904}^*$ 559872	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[6^2, 3, 2, 1]$	$1T_1, 2T_1, 3T_2, (6T_{13})$ $1T_1, 2T_1, 3T_2^*, (6T_{13}^*)^2$	$18T_{905}^*$ $559872$	$[18, 6, 3^4, 2^6, 1^6]$
$[6^2, 3, 2, 1]$	$1T_1, 2T_1, 3T_2^*, (6T_{13}^*)^2$	$18T_{906}^{+*}$ 559872	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[6^2, 3, 2, 1]$	$1T_1, 2T_1, 3T_2, (6T_{13})$ $1T_1, 2T_1, 3T_2^*, (6T_{13}^*)^2$	$18T_{926}^*$ $1119744$	$[18, 6^2, 3^3, 2^6, 1^6]$
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$1T_1, 2T_1, 3T_2, (0T_{13})$ $1T_1, 2T_1, 3T_2^*, 12T_{16}^{+*}$		[18, 6, 3, 2, 1 <sup>14</sup> ]
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	111, 211, 31 <sub>2</sub> , 121 <sub>16</sub> 1T 2T 2T* 12T+*	210	$   \begin{bmatrix}     18, 6, 3, 2, 1 \\     18, 6, 3, 2, 1^{14}   \end{bmatrix} $
	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		[18, 12, 3, 2, 1]
[12, 3, 2, 1]	$1I_1, 2I_1, 3I_2, 12I_{37}$	010	
[12, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 12T_{71}^{+*}$	18T <sup>+*</sup> <sub>358</sub> 1944	$[18, 6, 3^2, 2, 1^{13}]$
[12, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 12T_{71}^{+*}$	$18T_{359}^{+*}$ 1944	$[18, 6, 3^2, 2, 1^{13}]$
[12, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 12T_{72}^*$	18T* 1944	$[18, 6, 3^2, 2, 1^{13}]$
[12, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 12T_{72}^*$	18T* 1944	$[18, 6, 3^2, 2, 1^{13}]$
[12, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 12T_{116}^*$	18T* 3888	$[18, 6^2, 3, 2, 1^{13}]$
[12, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 12T_{116}^*$	18T <sub>447</sub> 3888	$[18, 6^2, 3, 2, 1^{13}]$
[12, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 12T_{117}^{+*}$	18T <sub>448</sub> 3888	$[18, 12, 3^2, 2, 1^{13}]$
[12, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 12T_{118}^*$	18T <sub>446</sub> 3888	$[18, 12, 3^2, 2, 1^{13}]$
[12, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 12T_{119}^*$	$18T_{445}^*$ 3888	$[18, 12, 3^2, 2, 1^{13}]$
[12, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 12T_{120}^*$	$18T_{449}^*$ 3888	$[18, 12, 3^2, 2, 1^{13}]$
[12, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 12T_{130}^{+*}$	$18T_{499}^{+*}$ 5832	$[18, 6, 3^3, 2, 1^{12}]$
[12, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 12T_{130}^{+*}$	$18T_{500}^{+*}$ 5832	$[18, 6, 3^3, 2, 1^{12}]$
[12, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 12T_{130}^{+*}$	$18T_{618}^{+*}$ 17496	$[18, 6, 3^4, 2, 1^{11}]$
[12, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 12T_{130}^{+*}$	$18T_{621}^*$ 17496	$[18, 6, 3^4, 2, 1^{11}]$
[12, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 12T_{131}^*$	$18T_{501}^{*}$ 5832	$[18, 6, 3^3, 2, 1^{12}]$
G: Po	essible Galois Groups, $D(G)$ : Degrees of	factors, $S(G)$ : Galois Groups	of factors, $\mathcal{L}(G)$ : Initial Degrees

Splitting table of degree 18

D(G)	S(G)	G   G	$\mathcal{L}(G)$
[12, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 12T_{131}^*$	$18T_{504}^{*}$ 5832	$[18, 6, 3^3, 2, 1^{12}]$
[12, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 12T_{131}^*$	$18T_{620}^{*}$ 17496	[18, 6, 3 <sup>4</sup> , 2, 1 <sup>11</sup> ]
[12, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 12T_{156}^*$	$18T_{523}^{*}$ 7776	[18, 12, 6, 3, 2, 1 <sup>13</sup> ]
[12, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 12T_{167}^*$	$18T_{570}^{*}$ 11664	$[18, 6^2, 3^2, 2, 1^{12}]$
[12, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 12T_{167}^*$	$18T_{572}^{*}$ 11664	$[18, 6^2, 3^2, 2, 1^{12}]$
[12, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 12T_{167}^*$	$18T_{677}^*$ 34992	$[18, 6^2, 3^3, 2, 1^{11}]$
[12, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 12T_{168}^{+*}$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$[18, 12, 3^3, 2, 1^{12}]$
[12, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 12T_{168}^{+*}$	$18T_{678}^{*}$ 34992	$[18, 12, 3^4, 2, 1^{11}]$
[12, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 12T_{168}^{+*}$	$18T_{679}^{+*}$ 34992	$[18, 12, 3^4, 2, 1^{11}]$
[12, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 12T_{169}^*$	$18T_{579}^{*}$ 11664	$[18, 12, 3^3, 2, 1^{12}]$
[12, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 12T_{169}^*$	$18T_{582}^{*}$ 11664	$[18, 12, 3^3, 2, 1^{12}]$
[12, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 12T_{169}^*$	$18T_{680}^{*}$ 34992	$[18, 12, 3^4, 2, 1^{11}]$
[12, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 12T_{169}^*$	$18T_{685}^{*}$ 34992	$[18, 12, 3^4, 2, 1^{11}]$
[12, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 12T_{170}^*$	$18T_{581}^*$ 11664	$[18, 12, 3^3, 2, 1^{12}]$
[12, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 12T_{170}^*$	$18T_{681}^{+*}$ 34992	$[18, 12, 3^4, 2, 1^{11}]$
[12, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 12T_{170}^*$	$18T_{684}^{*}$ 34992	$[18, 12, 3^4, 2, 1^{11}]$
[12, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 12T_{210}^{+*}$	$18T_{754}^{+*}$ 69984	$[18, 12, 3^4, 2^2, 1^{10}]$
[12, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 12T_{210}^{+*}$	$18T_{755}^{+*}$ 69984	$[18, 12, 3^4, 2^2, 1^{10}]$
[12, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 12T_{210}^{+*}$	$18T^*_{757}$ 69984	$[18, 6, 3^4, 2^3, 1^9]$
[12, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 12T_{210}^{+*}$	$18T_{826}^{*}$ 139968	$[18, 6, 3^4, 2^4, 1^8]$
[12, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 12T_{210}^{+*}$	$18T_{829}^{+*}$ 139968	$[18, 12, 3^4, 2^3, 1^9]$
[12, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 12T_{211}^*$	$18T_{759}^{*}$ 69984	$[18, 12, 3^4, 2^2, 1^{10}]$
[12, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 12T_{211}^*$	$18T_{818}^{+*}$ 139968	$[18, 6, 3^4, 2^4, 1^8]$
[12, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 12T_{211}^*$	$18T_{820}^{*}$ 139968	$[18, 12, 3^4, 2^3, 1^9]$
[12, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 12T_{214}^{+*}$	$18T_{756}^{+*}$ 69984	$[18, 12, 3^4, 2^2, 1^{10}]$
[12, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 12T_{214}^{+*}$	$18T^*_{758}$ 69984	$[18, 6, 3^4, 2^3, 1^9]$
[12, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 12T_{214}^{+*}$	$18T_{760}^{+*}$ 69984	$[18, 12, 3^4, 2^2, 1^{10}]$
[12, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 12T_{214}^{+*}$	$18T_{816}^*$ 139968	$[18, 6, 3^4, 2^4, 1^8]$
[12, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 12T_{214}^{+*}$	$18T_{821}^{+*}$ 139968	$[18, 12, 3^4, 2^3, 1^9]$
[12, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 12T_{215}^{+*}$	$18T_{762}^*$ 69984	$[18, 6, 3^4, 2^3, 1^9]$
[12, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 12T_{215}^{+*}$	$18T_{815}^{*}$ 139968	$[18, 6, 3^4, 2^4, 1^8]$
[12, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 12T_{215}^{+*}$	$18T_{824}^{+*}$ 139968	$[18, 12, 3^4, 2^3, 1^9]$
[12, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 12T_{217}^*$	$18T_{649}^*$ 23328	$[18, 12, 6, 3^2, 2, 1^{12}]$
[12, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 12T_{217}^*$	$18T_{740}^*$ 69984	$[18, 12, 6, 3^3, 2, 1^{11}]$
[12, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 12T_{217}^*$	$18T^*_{752}$ 69984	$[18, 12, 3^4, 2^2, 1^{10}]$
[12, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 12T_{242}^{+*}$	$18T_{817}^*$ 139968	$[18, 12, 3^4, 2^3, 1^9]$
[12, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 12T_{242}^{+*}$	$18T_{822}^*$ $139968$	$[18, 12, 3^4, 2^3, 1^9]$
[12, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 12T_{242}^{+*}$	$18T^*_{823}$ $139968$	$[18, 12, 3^4, 2^3, 1^9]$
[12, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 12T_{242}^{+*}$	$18T_{833}^*$ 139968	$[18, 12, 3^4, 2^3, 1^9]$
[12, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 12T_{242}^{+*}$	$18T_{862}^*$ 279936	$[18, 12, 3^4, 2^4, 1^8]$
[12, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 12T_{242}^{+*}$	$18T_{863}^*$ 279936	$[18, 12, 3^4, 2^4, 1^8]$
[12, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 12T_{243}^{+*}$	$18T_{825}^*$ 139968	$[18, 12, 3^4, 2^3, 1^9]$
[12, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 12T_{243}^{+*}$	$18T_{834}^*$ 139968	$[18, 12, 3^4, 2^3, 1^9]$
[12, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 12T_{243}^{+*}$	$18T_{864}^{*}$ 279936	$[18, 12, 3^4, 2^4, 1^8]$
[12, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 12T_{243}^{+*}$	$18T_{872}^*$ 279936	$[18, 12, 3^4, 2^4, 1^8]$
G: Po	essible Galois Groups, $D(G)$ : Degrees o	f factors, $S(G)$ : Galois Groups	of factors, $\mathcal{L}(G)$ : Initial Degrees

Splitting table of degree 18

D(G)	S(G)	G   G	$\mathcal{L}(G)$
[12, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 12T_{244}^{+*}$	$18T_{877}^*$ 279936	$[18, 12, 3^4, 2^4, 1^8]$
[12, 3, 2, 1]	$1T_1, 2T_1, 3T_2, 12T_{244}$ $1T_1, 2T_1, 3T_2^*, 12T_{245}^*$	$18T_{873}^*$ 279936	[18, 12, 3 <sup>4</sup> , 2 <sup>4</sup> , 1 <sup>8</sup> ]
[12, 3, 2, 1]	$1T_1, 2T_1, 3T_2, 12T_{247}$	$18T_{861}^{+*}$ 279936	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
[12, 3, 2, 1]	$1T_1, 2T_1, 3T_2, 12T_{247}$ $1T_1, 2T_1, 3T_2^*, 12T_{247}^*$	$18T_{869}^*$ 279936	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$     \begin{bmatrix}       12, 3, 2, 1 \\       \hline       12, 3, 2, 1     \end{bmatrix}   $	$1T_1, 2T_1, 3T_2, 12T_{247}$ $1T_1, 2T_1, 3T_2^*, 12T_{248}^*$	1 000	$[18, 12, 6, 3^3, 2^2, 1^{10}]$
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$1T_1, 2T_1, 3T_2, 12T_{248}$ $1T_1, 2T_1, 3T_2^*, 12T_{248}^*$	010	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$111, 211, 31_2, 121_{248}$ $1T, 2T, 2T^*, 12T^*$	020	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
	$1T_1, 2T_1, 3T_2^*, 12T_{248}^*$	1 000	[10, 12, 0, 3 , 2 , 1 ]
[12, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 12T_{248}^*$	1 011	$[18, 6^2, 3^3, 2^4, 1^8]$
[12, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 12T_{249}^{+*}$	18T <sub>867</sub> <sup>+*</sup> 279936	$\begin{bmatrix} 18, 12, 6, 3^3, 2^3, 1^9 \end{bmatrix}$
[12, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 12T_{249}^{+*}$	18T* <sub>870</sub> 279936	$[18, 6^2, 3^3, 2^4, 1^8]$
[12, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 12T_{261}^*$	18T <sub>909</sub> 559872	$[18, 12, 3^4, 2^5, 1^7]$
[12, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 12T_{261}^*$	$18T_{910}^{+*}$ 559872	$[18, 12, 3^4, 2^5, 1^7]$
[12, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 12T_{261}^*$	$18T_{930}^*$ $1119744$	$[18, 12, 3^4, 2^6, 1^6]$
[12, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 12T_{264}^*$	$18T_{907}^{*}$ 559872	$[18, 12, 3^4, 2^5, 1^7]$
[12, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 12T_{264}^*$	$18T_{908}^{+*}$ 559872	$[18, 12, 3^4, 2^5, 1^7]$
[12, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 12T_{264}^*$	$18T_{929}^*$ 1119744	$[18, 12, 3^4, 2^6, 1^6]$
[12, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 12T_{266}^{+*}$	$18T_{902}^*$ 559872	$[18, 12, 6, 3^3, 2^4, 1^8]$
[12, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 12T_{267}^*$	$18T_{901}^*$ 559872	$[18, 12, 6, 3^3, 2^4, 1^8]$
[12, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 12T_{274}^*$	$18T_{927}^{+*}$ 1119744	$[18, 12, 6, 3^3, 2^5, 1^7]$
[12, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 12T_{274}^*$	$18T_{928}^*$ 1119744	$[18, 12, 6, 3^3, 2^5, 1^7]$
[12, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 12T_{274}^*$	$18T_{931}^*$ 1119744	$[18, 12, 6, 3^3, 2^5, 1^7]$
[12, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 12T_{274}^*$	$18T_{932}^*$ 1119744	$[18, 12, 6, 3^3, 2^5, 1^7]$
[12, 3, 2, 1]	$1T_1, 2T_1, 3T_2^*, 12T_{274}^*$	$18T_{945}^*$ 2239488	$[18, 12, 6, 3^3, 2^6, 1^6]$
[10, 5, 2, 1]	$1T_1, 2T_1, 5T_2^{+*}, 10T_3^*$	$18T_{145}^{+}$ 360	$[18, 5, 2^2, 1^{14}]$
[10, 5, 2, 1]	$1T_1, 2T_1, 5T_3^*, 10T_4^*$	$18T_{146}$ 360	$[18, 5, 2^2, 1^{14}]$
[10, 5, 2, 1]	$1T_1, 2T_1, 5T_3^*, 10T_5^*$	$18T_{227}$ 720	$[18, 5, 4, 2, 1^{14}]$
[10, 5, 2, 1]	$1T_1, 2T_1, 5T_4^+, 10T_{11}$	$18T_{363}^{+}$ 2160	$[18, 5, 4, 3, 2, 1^{13}]$
[10, 5, 2, 1]	$1T_1, 2T_1, 5T_5, 10T_{12}$	$18T_{364}$ 2160	$[18, 5, 4, 3, 2, 1^{13}]$
[10, 5, 2, 1]	$1T_1, 2T_1, 5T_5, 10T_{22}$	$18T_{452}$ 4320	$[18, 5, 4, 3, 2^2, 1^{12}]$
[9, 6, 2, 1]	$1T_1, 2T_1, 6T_1^*, 9T_{10}^{+*}$	$18T_{233}^*$ 972	$[18, 9, 3, 2, 1^{14}]$
[9, 6, 2, 1]	$1T_1, 2T_1, 6T_1^*, 9T_{10}^{+*}$	$18T_{235}^*$ 972	$[18, 9, 3, 2, 1^{14}]$
[9, 6, 2, 1]	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$18T_{247}^*$ 972	$[18, 9, 3, 2, 1^{14}]$
[9, 6, 2, 1]	$1T_1, 2T_1, 6T_1^*, 9T_{10}^{+*}$	$18T_{253}^*$ 972	$[18, 9, 3, 2, 1^{14}]$
[9, 6, 2, 1]	$ 1T_1, 2T_1, 6T_1^*, 9T_{10}^{+*} $	$18T_{338}^*$ 1944	$[18, 9, 3, 2^2, 1^{13}]$
[9, 6, 2, 1]	$1T_1, 2T_1, 6T_1^*, 9T_{10}^{+*}$	$18T_{353}^*$ 1944	$[18, 9, 3, 2^2, 1^{13}]$
[9, 6, 2, 1]	$1T_1, 2T_1, 6T_1^*, 9T_{10}^{+*}$	$18T^*_{413}$ 2916	$[18, 9, 3^2, 2, 1^{13}]$
[9, 6, 2, 1]	$1T_1, 2T_1, 6T_1^*, 9T_{10}^{+*}$	$18T_{415}^*$ 2916	$[18, 9, 3^2, 2, 1^{13}]$
[9, 6, 2, 1]	$1T_1, 2T_1, 6T_1^*, 9T_{10}^{+*}$	$18T^*_{491}$ 5832	$[18, 9, 3^2, 2^2, 1^{12}]$
[9, 6, 2, 1]	$1T_1, 2T_1, 6T_1^*, 9T_{11}^{+*}$	$18T_{230}^{*}$ 972	$[18, 9, 3, 2, 1^{14}]$
[9, 6, 2, 1]	$1T_1, 2T_1, 6T_1^*, 9T_{11}^{+*}$	$18T_{231}^{*}$ 972	$[18, 9, 3, 2, 1^{14}]$
[9, 6, 2, 1]	$1T_1, 2T_1, 6T_1^*, 9T_{11}^{+*}$	$18T_{248}^{*}$ 972	$[18, 9, 3, 2, 1^{14}]$
[9, 6, 2, 1]	$1T_1, 2T_1, 6T_1^*, 9T_{11}^{+*}$	$18T_{251}^{*}$ 972	$[18, 9, 3, 2, 1^{14}]$
[9, 6, 2, 1]	$1T_1, 2T_1, 6T_1^*, 9T_{11}^{+*}$	$18T_{340}^{*}$ 1944	$[18, 9, 3, 2^2, 1^{13}]$
[9, 6, 2, 1]	$1T_1, 2T_1, 6T_1^*, 9T_{11}^{+*}$	$18T_{357}^{*}$ 1944	$[18, 9, 3, 2^2, 1^{13}]$
[9, 6, 2, 1]	$1T_1, 2T_1, 6T_1^*, 9T_{11}^{+*}$	$18T_{410}^{*}$ 2916	$[18, 9, 3^2, 2, 1^{13}]$
G: Po	ossible Galois Groups, $D(G)$ : Degrees of		of factors, $\mathcal{L}(G)$ : Initial Degrees

Splitting table of degree 18

$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	D(G)	S(G)	G   G	$\mathcal{L}(G)$
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			' '	
$\begin{array}{llllllllllllllllllllllllllllllllllll$				
$ \begin{array}{llllllllllllllllllllllllllllllllllll$			100	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		$1T_1, 2T_1, 6T_2, 9T_2$	210	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	[9, 6, 2, 1]	$1T_1, 2T_1, 6T_2, 9T_{12}$	1 010	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	[9, 6, 2, 1]	$1T_1, 2T_1, 6T_3, 6T_{18}$	0.10	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	[9, 6, 2, 1]	$1T_1, 2T_1, 6T_2, 9T_{12}$	18T* 1944	
$\begin{array}{llllllllllllllllllllllllllllllllllll$		$1T_1, 2T_1, 6T_2, 9T_{12}$	187*40 3888	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		$1T_1, 2T_1, 6T_2, 9T_{12}$		[18, 9, 6, 3, 2, 1 <sup>13</sup> ]
$\begin{array}{llllllllllllllllllllllllllllllllllll$			18T <sup>+*</sup> <sub>495</sub> 5832	[18, 9, 6, 3, 2, 1 <sup>13</sup> ]
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			18T <sup>+*</sup> <sub>495</sub> 5832	[18, 9, 6, 3, 2, 1 <sup>13</sup> ]
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			187* 5832	[18, 9, 6, 3, 2, 1 <sup>13</sup> ]
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			18T* <sub>507</sub> 5832	[18, 9, 6, 3, 2, 1 <sup>13</sup> ]
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		$1T_1, 2T_1, 6T_2^*, 9T_{12}^*$		[18, 9, 6, 3, 2, 1 <sup>13</sup> ]
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		$1T_1, 2T_1, 6T_2^*, 9T_1^*$	1 000	[18, 9, 6, 3, 2, 1 <sup>13</sup> ]
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	[9, 6, 2, 1]		$18T_{572}^{*}$ $11664$	$[18, 9, 6, 3, 2^2, 1^{12}]$
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	[9, 6, 2, 1]		$18T_{574}^{*}$ 11664	$[18, 9, 6, 3, 2^2, 1^{12}]$
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	[9, 6, 2, 1]	$1T_1, 2T_1, 6T_2^*, 9T_1^*$	18T* 11664	$[18, 9, 6^2, 2, 1^{13}]$
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	[9, 6, 2, 1]	$1T_1, 2T_1, 6T_3^*, 9T_{18}^*$	$18T_{576}^{*}$ 11664	$[18, 9, 6, 3, 2^2, 1^{12}]$
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		$1T_1, 2T_1, 6T_3^*, 9T_{18}^*$	$18T_{577}^{*}$ 11664	$[18, 9, 6^2, 2, 1^{13}]$
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	[9, 6, 2, 1]	$1T_1, 2T_1, 6T_2^*, 9T_{12}^*$	18T <sup>+*</sup> <sub>579</sub> 11664	$[18, 9, 6, 3, 2^2, 1^{12}]$
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	[9, 6, 2, 1]	$1T_1, 2T_1, 6T_3^*, 9T_{18}^*$	187** 23328	$[18, 9, 6^2, 2^2, 1^{12}]$
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		$1T_1, 2T_1, 6T_5^*, 9T_{10}^{+*}$		$[18, 3^3, 2, 1^{13}]$
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		$1T_1, 2T_1, 6T_5^*, 9T_{10}^{+*}$	$18T_{240}^{*}$ 972	$[18, 3^3, 2, 1^{13}]$
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			210	$[18, 3^4, 2, 1^{12}]$
$ \begin{array}{ c c c c c c c c }\hline [9,6,2,1] & 1T_1,2T_1,6T_5^*,9T_{11}^{++*} & 18T_{245}^*&972 & [18,3^3,2,1^{13}]\\\hline [9,6,2,1] & 1T_1,2T_1,6T_5^*,9T_{11}^{++*} & 18T_{259}^*&972 & [18,3^3,2,1^{13}]\\\hline [9,6,2,1] & 1T_1,2T_1,6T_5^*,9T_{11}^{++*} & 18T_{417}^*&2916 & [18,3^4,2,1^{12}]\\\hline [9,6,2,1] & 1T_1,2T_1,6T_5^*,9T_{11}^{++*} & 18T_{423}^*&2916 & [18,3^4,2,1^{12}]\\\hline [9,6,2,1] & 1T_1,2T_1,6T_5^*,9T_{21}^{++*} & 18T_{536}^*&8748 & [18,9,3^3,2,1^{12}]\\\hline [9,6,2,1] & 1T_1,2T_1,6T_5^*,9T_{21}^{++*} & 18T_{536}^*&8748 & [18,9,3^3,2,1^{12}]\\\hline [9,6,2,1] & 1T_1,2T_1,6T_5^*,9T_{21}^{++*} & 18T_{540}^*&8748 & [18,9,3^3,2,1^{12}]\\\hline [9,6,2,1] & 1T_1,2T_1,6T_5^*,9T_{21}^{++*} & 18T_{654}^*&26244 & [18,9,3^4,2,1^{11}]\\\hline [9,6,2,1] & 1T_1,2T_1,6T_5^*,9T_{21}^{++*} & 18T_{655}^*&26244 & [18,9,3^4,2,1^{11}]\\\hline [9,6,2,1] & 1T_1,2T_1,6T_5^*,9T_{21}^{++*} & 18T_{33}^*&2488 & [18,9,3^4,2,1^{11}]\\\hline [9,6,2,1] & 1T_1,2T_1,6T_5^*,9T_{21}^{+*} & 18T_{33}^*&2488 & [18,9,3^4,2,1^{10}]\\\hline [9,6,2,1] & 1T_1,2T_1,6T_9^*,9T_{18}^* & 18T_{352}^*&1944 & [18,6,3^2,2,1^{10}]\\\hline [9,6,2,1] & 1T_1,2T_1,6T_9^*,9T_{24}^* & 18T_{603}^*&17496 & [18,9,6,3^2,2,1^{12}]\\\hline [9,6,2,1] & 1T_1,2T_1,6T_9^*,9T_{24}^* & 18T_{613}^*&17496 & [18,9,6,3^2,2,1^{12}]\\\hline [9,6,2,1] & 1T_1,2T_1,6T_9^*,9T_{24}^* & 18T_{617}^*&17496 & [18,9,6,3^2,2,1^{12}]\\\hline [9,6,2,1] & 1T_1,2T_1,6T_9^*,9T_{24}^* & 18T_{617}^*&17496 & [18,9,6,3^2,2,1^{12}]\\\hline [9,6,2,1] & 1T_1,2T_1,6T_9^*,9T_{24}^* & 18T_{617}^*&7496 & [18,9,6,3^3,2,1^{11}]\\\hline [9,6,2,1] & 1T_1,2T_1,6T_9^*,9T_{24}^* & 18T_{627}^*&34992 & [18,9,6,3^3,2,1^{11}]\\\hline [9,6,2,1] & 1T_1,2T_1,6T_9^*,9T_{24}^* & 18T_{227}^*&52488 & [18,9,6,3^3,2,1^{11}]\\\hline [9,6,2,1] & 1T_1,2T_1,6T_9^*,9T_{24}^* & 18T_{227}^*&52488 & [18,9,6,3^3,2,1^{11}]\\\hline [9,6,2,1] & 1T_1,2T_1,6T_9^*,9T_{24}^* & 18T_{227}^*&52488 & [18,9,6,3$		$1T_1, 2T_1, 6T_5^*, 9T_{10}^{+*}$		$[18, 3^4, 2, 1^{12}]$
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		$1T_1, 2T_1, 6T_5^*, 9T_{11}^{+*}$	120	$[18, 3^3, 2, 1^{13}]$
$\begin{array}{ c c c c c c c c }\hline [9,6,2,1] & 1T_1,2T_1,6T_5^*,9T_{11}^{+*} & 18T_{417}^*&2916 & [18,3^4,2,1^{12}]\\ \hline [9,6,2,1] & 1T_1,2T_1,6T_5^*,9T_{11}^{+*} & 18T_{423}^*&2916 & [18,3^4,2,1^{12}]\\ \hline [9,6,2,1] & 1T_1,2T_1,6T_5^*,9T_{21}^{+*} & 18T_{536}^*&8748 & [18,9,3^3,2,1^{12}]\\ \hline [9,6,2,1] & 1T_1,2T_1,6T_5^*,9T_{21}^{+*} & 18T_{540}^*&8748 & [18,9,3^3,2,1^{12}]\\ \hline [9,6,2,1] & 1T_1,2T_1,6T_5^*,9T_{21}^{+*} & 18T_{654}^*&26244 & [18,9,3^4,2,1^{11}]\\ \hline [9,6,2,1] & 1T_1,2T_1,6T_5^*,9T_{21}^{+*} & 18T_{655}^*&26244 & [18,9,3^4,2,1^{11}]\\ \hline [9,6,2,1] & 1T_1,2T_1,6T_5^*,9T_{21}^{+*} & 18T_{733}^*&52488 & [18,9,3^4,2^2,1^{10}]\\ \hline [9,6,2,1] & 1T_1,2T_1,6T_5^*,9T_{18}^{+*} & 18T_{352}^*&1944 & [18,6,3^2,2,1^{13}]\\ \hline [9,6,2,1] & 1T_1,2T_1,6T_9^*,9T_{18}^{**} & 18T_{352}^{**}&1944 & [18,6,3^2,2,1^{13}]\\ \hline [9,6,2,1] & 1T_1,2T_1,6T_9^*,9T_{18}^{**} & 18T_{605}^{**}&5832 & [18,6,3^3,2,1^{12}]\\ \hline [9,6,2,1] & 1T_1,2T_1,6T_9^*,9T_{24}^{**} & 18T_{604}^{**}&17496 & [18,9,6,3^2,2,1^{12}]\\ \hline [9,6,2,1] & 1T_1,2T_1,6T_9^*,9T_{24}^{**} & 18T_{613}^{**}&17496 & [18,9,6,3^2,2,1^{12}]\\ \hline [9,6,2,1] & 1T_1,2T_1,6T_9^*,9T_{24}^{**} & 18T_{617}^{**}&17496 & [18,9,6,3^2,2,1^{12}]\\ \hline [9,6,2,1] & 1T_1,2T_1,6T_9^*,9T_{24}^{**} & 18T_{617}^{**}&34992 & [18,9,6,3^2,2,1^{12}]\\ \hline [9,6,2,1] & 1T_1,2T_1,6T_9^*,9T_{24}^{**} & 18T_{624}^{**}&34992 & [18,9,6,3^3,2,1^{11}]\\ \hline [9,6,2,1] & 1T_1,2T_1,6T_9^*,9T_{24}^{**} & 18T_{726}^{**}&52488 & [18,9,6,3^3,2,1^{11}]\\ \hline [9,6,2,1] & 1T_1,2T_1,6T_9^*,9T_{24}^{**} & 18T_{725}^{**}&52488 & [18,9,6,3^3,2,1^{11}]\\ \hline [9,6,2,1] & 1T_1,2T_1,6T_9^*,9T_{24}^{**} & 18T_{725}^{**}&52488 & [18,9,6,3^3,2,1^{11}]\\ \hline [9,6,2,1] & 1T_1,2T_1,6T_9^*,9T_{24}^{**} & 18T_{725}^{**}&52488 & [18,9,6,3^3,2,1^{11}]\\ \hline [9,6,2,1] & 1T_1,2T_1,6T_9^*,9T_{24}^{**} & 18T_{72$		$1T_1, 2T_1, 6T_5^*, 9T_{11}^{+*}$		$[18, 3^3, 2, 1^{13}]$
$ \begin{array}{ c c c c c c c c c }\hline [9,6,2,1] & 1T_1,2T_1,6T_5^*,9T_{11}^{+*} & 18T_{423}^*&2916 & [18,3^4,2,1^{12}]\\ \hline [9,6,2,1] & 1T_1,2T_1,6T_5^*,9T_{21}^{+*} & 18T_{536}^*&8748 & [18,9,3^3,2,1^{12}]\\ \hline [9,6,2,1] & 1T_1,2T_1,6T_5^*,9T_{21}^{+*} & 18T_{540}^*&8748 & [18,9,3^3,2,1^{12}]\\ \hline [9,6,2,1] & 1T_1,2T_1,6T_5^*,9T_{21}^{+*} & 18T_{654}^*&26244 & [18,9,3^4,2,1^{11}]\\ \hline [9,6,2,1] & 1T_1,2T_1,6T_5^*,9T_{21}^{+*} & 18T_{655}^*&26244 & [18,9,3^4,2,1^{11}]\\ \hline [9,6,2,1] & 1T_1,2T_1,6T_5^*,9T_{21}^{+*} & 18T_{733}^*&52488 & [18,9,3^4,2^2,1^{10}]\\ \hline [9,6,2,1] & 1T_1,2T_1,6T_9^*,9T_{18}^{**} & 18T_{733}^{**}&52488 & [18,9,3^4,2^2,1^{10}]\\ \hline [9,6,2,1] & 1T_1,2T_1,6T_9^*,9T_{18}^{**} & 18T_{352}^{**}&1944 & [18,6,3^2,2,1^{13}]\\ \hline [9,6,2,1] & 1T_1,2T_1,6T_9^*,9T_{18}^{**} & 18T_{552}^{**}&5832 & [18,6,3^3,2,1^{12}]\\ \hline [9,6,2,1] & 1T_1,2T_1,6T_9^*,9T_{24}^{**} & 18T_{603}^{**}&17496 & [18,9,6,3^2,2,1^{12}]\\ \hline [9,6,2,1] & 1T_1,2T_1,6T_9^*,9T_{24}^{**} & 18T_{613}^{**}&17496 & [18,9,6,3^2,2,1^{12}]\\ \hline [9,6,2,1] & 1T_1,2T_1,6T_9^*,9T_{24}^{**} & 18T_{613}^{**}&17496 & [18,9,6,3^2,2,1^{12}]\\ \hline [9,6,2,1] & 1T_1,2T_1,6T_9^*,9T_{24}^{**} & 18T_{613}^{**}&17496 & [18,9,6,3^2,2,1^{12}]\\ \hline [9,6,2,1] & 1T_1,2T_1,6T_9^*,9T_{24}^{**} & 18T_{617}^{**}&17496 & [18,9,6,3^2,2,1^{12}]\\ \hline [9,6,2,1] & 1T_1,2T_1,6T_9^*,9T_{24}^{**} & 18T_{617}^{**}&17496 & [18,9,6,3^2,2,1^{12}]\\ \hline [9,6,2,1] & 1T_1,2T_1,6T_9^*,9T_{24}^{**} & 18T_{614}^{**}&34992 & [18,9,6,3^3,2,1^{11}]\\ \hline [9,6,2,1] & 1T_1,2T_1,6T_9^*,9T_{24}^{**} & 18T_{726}^{**}&52488 & [18,9,6,3^3,2,1^{11}]\\ \hline [9,6,2,1] & 1T_1,2T_1,6T_9^*,9T_{24}^{**} & 18T_{726}^{**}&52488 & [18,9,6,3^3,2,1^{11}]\\ \hline [9,6,2,1] & 1T_1,2T_1,6T_9^*,9T_{24}^{**} & 18T_{726}^{**}&52488 & [18,9,6,3^3,2,1^{11}]\\ \hline [9,6,2,1] & 1T_1,2T_1,6T_9^*,9T_{24}^{**} & 18T_{728}^{**}&52488 & [18,9,6,3^3,2,1^{11}]\\ \hline [9,6,2,1] & 1T_1,2T_1,6T_9^*,9T_{24}^{**} & 18T_{728}^{**}&52488 & [18,9,6,3^3,2,1^{11}]\\ \hline [9,6,2,1] & 1T_1,2T_1,6T_9^*,9T_{24}^{**} & 18T_{728}^{**}&52488 & [18,9,6,3^3,2,1^{11}]\\ \hline [9,6,2,1] & 1T_1,2T_1,6T_9^*,9T_{2$		$1T_1, 2T_1, 6T_5^*, 9T_{11}^{+*}$	200	$[18, 3^4, 2, 1^{12}]$
$ \begin{array}{ c c c c c c c c c }\hline [9,6,2,1] & 1T_1,2T_1,6T_5^*,9T_{21}^{+1} & 18T_{536}^* & 8748 & [18,9,3^3,2,1^{12}]\\\hline [9,6,2,1] & 1T_1,2T_1,6T_5^*,9T_{21}^{+*} & 18T_{540}^* & 8748 & [18,9,3^3,2,1^{12}]\\\hline [9,6,2,1] & 1T_1,2T_1,6T_5^*,9T_{21}^{+*} & 18T_{654}^* & 26244 & [18,9,3^4,2,1^{11}]\\\hline [9,6,2,1] & 1T_1,2T_1,6T_5^*,9T_{21}^{+*} & 18T_{655}^* & 26244 & [18,9,3^4,2,1^{11}]\\\hline [9,6,2,1] & 1T_1,2T_1,6T_5^*,9T_{21}^{+*} & 18T_{733}^* & 52488 & [18,9,3^4,2^2,1^{10}]\\\hline [9,6,2,1] & 1T_1,2T_1,6T_9^*,9T_{18}^* & 18T_{352}^* & 1944 & [18,6,3^2,2,1^{13}]\\\hline [9,6,2,1] & 1T_1,2T_1,6T_9^*,9T_{18}^* & 18T_{505}^* & 5832 & [18,6,3^3,2,1^{12}]\\\hline [9,6,2,1] & 1T_1,2T_1,6T_9^*,9T_{24}^* & 18T_{603}^* & 17496 & [18,9,6,3^2,2,1^{12}]\\\hline [9,6,2,1] & 1T_1,2T_1,6T_9^*,9T_{24}^* & 18T_{604}^* & 17496 & [18,9,6,3^2,2,1^{12}]\\\hline [9,6,2,1] & 1T_1,2T_1,6T_9^*,9T_{24}^* & 18T_{613}^* & 17496 & [18,9,6,3^2,2,1^{12}]\\\hline [9,6,2,1] & 1T_1,2T_1,6T_9^*,9T_{24}^* & 18T_{613}^* & 17496 & [18,9,6,3^2,2,1^{12}]\\\hline [9,6,2,1] & 1T_1,2T_1,6T_9^*,9T_{24}^* & 18T_{617}^* & 17496 & [18,9,6,3^2,2,1^{12}]\\\hline [9,6,2,1] & 1T_1,2T_1,6T_9^*,9T_{24}^* & 18T_{617}^* & 17496 & [18,9,6,3^2,2,1^{12}]\\\hline [9,6,2,1] & 1T_1,2T_1,6T_9^*,9T_{24}^* & 18T_{674}^* & 34992 & [18,9,6,3^3,2,1^{11}]\\\hline [9,6,2,1] & 1T_1,2T_1,6T_9^*,9T_{24}^* & 18T_{726}^* & 52488 & [18,9,6,3^3,2,1^{11}]\\\hline [9,6,2,1] & 1T_1,2T_1,6T_9^*,9T_{24}^* & 18T_{726}^* & 52488 & [18,9,6,3^3,2,1^{11}]\\\hline [9,6,2,1] & 1T_1,2T_1,6T_9^*,9T_{24}^* & 18T_{728}^* & 52488 & [18,9,6,3^3,2,1^{11}]\\\hline [9,6,2,1] & 1T_1,2T_1,6T_9^*,9T_{24}^* & 18T_{728}^* & 52488 & [18,9,6,3^3,2,1^{11}]\\\hline [9,6,2,1] & 1T_1,2T_1,6T_9^*,9T_{24}^* & 18T_{728}^* & 52488 & [18,9,6,3^3,2,1^{11}]\\\hline [9,6,2,1] & 1T_1,2T_1,6T_9^*,9T_{24}^* & 18T_{728}^* & 52488 & [18,9,6,3^3,2,1^{11}]\\\hline [9,6,2,1] & 1T_1,2T_1,6T_9^*,9T_{24}^* & 18T_{728}^* & 52488 & [18,9,6,3^3,2,1^{11}]\\\hline [9,6,2,1] & 1T_1,2T_1,6T_9^*,9T_{24}^* & 18T_{728}^* & 52488 & [18,9,6,3^3,2,1^{11}]\\\hline [9,6,2,1] & 1T_1,2T_1,6T_9^*,9T_{24}^* & 18T_{728}^* & 52488 & [18,9,6,3^3,2,1^{11}]\\\hline [9,6,2,1] & 1T_1,2T$		$1T_1, 2T_1, 6T_5^*, 9T_{11}^{+*}$	187** 2916	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	[9, 6, 2, 1]	$1T_1, 2T_1, 6T_5^*, 9T_{21}^{+*}$	18T <sub>526</sub> 8748	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	[9, 6, 2, 1]	$1T_1, 2T_1, 6T_5^*, 9T_{21}^{+*}$		$[18, 9, 3^3, 2, 1^{12}]$
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		$1T_1, 2T_1, 6T_5^*, 9T_{21}^{+*}$	0.10	[18, 9, 3 <sup>4</sup> , 2, 1 <sup>11</sup> ]
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	[9, 6, 2, 1]	$1T_1, 2T_1, 6T_5^*, 9T_{21}^{+*}$		[18, 9, 3 <sup>4</sup> , 2, 1 <sup>11</sup> ]
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	[9, 6, 2, 1]	$1T_1, 2T_1, 6T_5^*, 9T_{21}^{+*}$	$18T_{722}^{*}$ 52488	$[18, 9, 3^4, 2^2, 1^{10}]$
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$				
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$				
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$				
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$				
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$				
			$18T_{617}^{*}$ 17496	
			$18T_{674}^{*}$ 34992	
[9, 6, 2, 1]				
			18T <sup>+*</sup> <sub>728</sub> 52488	

Splitting table of degree 18

D(G)	S(G)	$G \qquad  G $	$\mathcal{L}(G)$
[9, 6, 2, 1]	$1T_1, 2T_1, 6T_9^*, 9T_{24}^*$	$18T_{729}^{+*}$ 52488	$[18, 9, 6, 3^3, 2, 1^{11}]$
[9, 6, 2, 1]	$1T_1, 2T_1, 6T_9^*, 9T_{24}^*$	$18T_{730}^*$ 52488	$[18, 9, 3^4, 2^2, 1^{10}]$
[9, 6, 2, 1]	$1T_1, 2T_1, 6T_9^*, 9T_{24}^*$	$18T_{731}^*$ 52488	$[18, 9, 6, 3^3, 2, 1^{11}]$
[9, 6, 2, 1]	$1T_1, 2T_1, 6T_9, 9T_{24}^*$	$18T_{732}^*$ 52488	$[18, 9, 3^4, 2^2, 1^{10}]$
[9, 6, 2, 1]	$1T_1, 2T_1, 6T_9, 9T_{24}^*$	$18T_{793}^*$ $104976$	$[18, 9, 6, 3^3, 2^2, 1^{10}]$
[9, 6, 2, 1]	$1T_1, 2T_1, 6T_9, 9T_{24}^*$ $1T_1, 2T_1, 6T_9^*, 9T_{24}^*$	$18T_{794}^*$ $104976$	$[18, 9, 6^2, 3^2, 2, 1^{11}]$
[9, 6, 2, 1]	$1T_1, 2T_1, 6T_9, 5T_{24}$ $1T_1, 2T_1, 6T_9^*, 9T_{24}^*$	$ \begin{array}{c cccc} 18T_{794}^* & 104976 \\ 18T_{795}^{+*} & 104976 \end{array} $	$[18, 9, 6, 3^3, 2^2, 1^{10}]$
[9, 6, 2, 1]	$1T_1, 2T_1, 6T_9, 5T_{24}$ $1T_1, 2T_1, 6T_9^*, 9T_{24}^*$	$18T_{796}^*$ $104976$	$[18, 9, 6, 3^3, 2^2, 1^{10}]$
[9, 6, 2, 1]	$1T_1, 2T_1, 6T_9, 5T_{24}$ $1T_1, 2T_1, 6T_9^*, 9T_{24}^*$	100	$[18, 9, 6^2, 3^2, 2, 1^{11}]$
[9, 6, 2, 1]	$1T_1, 2T_1, 6T_9, 5T_{24}$ $1T_1, 2T_1, 6T_9^*, 9T_{24}^*$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$[18, 9, 6, 3^3, 2^2, 1^{10}]$
[9, 6, 2, 1]	$1T_1, 2T_1, 6T_9, 5T_{24}$ $1T_1, 2T_1, 6T_9^*, 9T_{24}^*$	$18T_{852}^{*}$ $209952$	$[18, 9, 6^2, 3^2, 2^2, 1^{10}]$
[9, 6, 2, 1]	$1T_1, 2T_1, 6T_9, 5T_{24}$ $1T_1, 2T_1, 6T_{13}^*, 9T_{29}^*$		$[18, 9, 6, 3^3, 2^4, 1^8]$
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		000	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$1T_1, 2T_1, 6T_{13}^*, 9T_{29}^*$	000	$   \begin{bmatrix}     18, 9, 6, 3, 2, 1 \\     18, 9, 6^2, 3^2, 2^4, 1^8   \end{bmatrix} $
	$1T_1, 2T_1, 6T_{13}^*, 9T_{29}^*$	020	$[18, 9, 6, 3^3, 2^4, 1^8]$
[9, 6, 2, 1]	$1T_1, 2T_1, 6T_{13}^*, 9T_{30}^{+*}$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
[9, 6, 2, 1]	$1T_1, 2T_1, 6T_{13}^*, 9T_{30}^{+*}$	001	$   \begin{bmatrix}     18, 9, 6^2, 3^2, 2^4, 1^8   \end{bmatrix}   $
[9, 6, 2, 1]	$1T_1, 2T_1, 6T_{13}^*, 9T_{30}^{+*}$	$18T_{920}^{*}$ 839808	[10, 9, 0, 3, 2, 1]
[9, 6, 2, 1]	$1T_1, 2T_1, 6T_{13}^*, 9T_{31}^*$	18T* 839808	$[18, 9, 6, 3^3, 2^5, 1^7]$
[9, 6, 2, 1]	$1T_1, 2T_1, 6T_{13}^*, 9T_{31}^*$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$[18, 9, 6, 3^3, 2^5, 1^7]$
[9, 6, 2, 1]	$1T_1, 2T_1, 6T_{13}^*, 9T_{31}^*$	$18T_{918}^{+*}$ 839808	$[18, 9, 6, 3^3, 2^5, 1^7]$
[9, 6, 2, 1]	$1T_1, 2T_1, 6T_{13}^*, 9T_{31}^*$	18T <sub>919</sub> <sup>+*</sup> 839808	$[18, 9, 6, 3^3, 2^5, 1^7]$
[9, 6, 2, 1]	$1T_1, 2T_1, 6T_{13}^*, 9T_{31}^*$	$18T_{921}^{*}$ 839808	$[18, 9, 6, 3^3, 2^5, 1^7]$
[9, 6, 2, 1]	$1T_1, 2T_1, 6T_{13}^*, 9T_{31}^*$	18T* 839808	$[18, 9, 6, 3^3, 2^5, 1^7]$
[9, 6, 2, 1]	$1T_1, 2T_1, 6T_{13}^*, 9T_{31}^*$	18T* 839808	$   \begin{bmatrix}     18, 9, 6, 3^3, 2^5, 1^7 \\     18, 9, 6^2, 3^2, 2^5, 1^7   \end{bmatrix} $
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$1T_1, 2T_1, 6T_{13}^*, 9T_{31}^*$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
[9, 6, 2, 1] [9, 6, 2, 1]	$1T_1, 2T_1, 6T_{13}^*, 9T_{31}^*$	0 - 0	$   \begin{bmatrix}     18, 9, 6, 3^3, 2^6, 1^6   \end{bmatrix}   $
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$1T_1, 2T_1, 6T_{13}^*, 9T_{31}^*$	0.00	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
	$1T_1, 2T_1, 6T_{13}^*, 9T_{31}^*$		$   \begin{bmatrix}     18, 9, 6^2, 3^2, 2^5, 1^7   \end{bmatrix}   $
$ \begin{array}{c cccc} [9, 6, 2, 1] \\ \hline [9, 6, 2, 1] \end{array} $	$1T_1, 2T_1, 6T_{13}^*, 9T_{31}^*$		$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
	$1T_1, 2T_1, 6T_{13}^*, 9T_{31}^*$	011	
[9, 6, 2, 1] [15, 2, 1]	$1T_1, 2T_1, 6T_{13}^*, 9T_{31}^*$	501	[18, 9, 6 <sup>2</sup> , 3 <sup>2</sup> , 2 <sup>6</sup> , 1 <sup>6</sup> ] [18, 15, 4, 2, 1 <sup>14</sup> ]
	$1T_1, 2T_1, 15T_{10}^+$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$[18, 15, 6, 3^2, 2, 1^{12}]$
[15, 2, 1] [15, 2, 1]	$1T_1, 2T_1, 15T_{42}^{+*}$		$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
	$1T_1, 2T_1, 15T_{43}^*$		
[15, 2, 1]	$1T_1, 2T_1, 15T_{45}^*$	$18T_{723}^{+}$ 43740	[18, 15, 3 <sup>4</sup> , 2, 1 <sup>11</sup> ]
[15, 2, 1]	$1T_1, 2T_1, 15T_{52}^*$	$18T_{736}$ $58320$	$[18, 15, 12, 3^2, 2, 1^{12}]$
[15, 2, 1]	$1T_1, 2T_1, 15T_{54}^{+*}$	$18T_{789}$ 87480	$[18, 15, 6, 3^3, 2, 1^{11}]$
[15, 2, 1]	$1T_1, 2T_1, 15T_{55}^*$	18T <sub>788</sub> 87480	$[18, 15, 6, 3^3, 2, 1^{11}]$
[15, 2, 1]	$1T_1, 2T_1, 15T_{55}^*$	$18T_{790}^{+}$ 87480	$[18, 15, 6, 3^3, 2, 1^{11}]$
[15, 2, 1]	$1T_1, 2T_1, 15T_{61}$	$18T_{849}^{+}$ 174960	$[18, 15, 12, 9, 3, 2, 1^{12}]$
[15, 2, 1]	$1T_1, 2T_1, 15T_{62}^+$	$18T_{848}$ $174960$	$[18, 15, 12, 9, 3, 2, 1^{12}]$
[15, 2, 1]	$1T_1, 2T_1, 15T_{64}^*$	$18T_{845}$ $174960$	$[18, 15, 12, 3^3, 2, 1^{11}]$
[15, 2, 1]	$1T_1, 2T_1, 15T_{64}^*$	$18T_{846}^{+}$ 174960	$[18, 15, 6, 3^3, 2^2, 1^{10}]$
[15, 2, 1]	$1T_1, 2T_1, 15T_{70}$	$18T_{886}$ $349920$	$[18, 15, 12, 9, 6, 2, 1^{12}]$
[15, 2, 1]	$1T_1, 2T_1, 15T_{76}$	$18T_{900}^{+}$ 524880	$[18, 15, 12, 9, 3^2, 2, 1^{11}]$
G: P	ossible Galois Groups, $D(G)$ : Degrees	of factors, $S(G)$ : Galois Groups	of factors, $\mathcal{L}(G)$ : Initial Degrees

Splitting table of degree 18

D(G)	S(G)	$G \qquad  G $	$\mathcal{L}(G)$	
[15, 2, 1]	$1T_1, 2T_1, 15T_{77}^+$	$18T_{899}$ $524880$	$[18, 15, 12, 9, 3^2, 2, 1^{11}]$	
[15, 2, 1]	$1T_1, 2T_1, 15T_{83}$	$18T_{925}$ $1049760$	$[18, 15, 12, 9, 6, 3, 2, 1^{11}]$	
[15, 2, 1]	$1T_1, 2T_1, 15T_{86}^*$	$18T_{936}^{+}$ 1399680	$[18, 15, 6, 3^3, 2^5, 1^7]$	
[15, 2, 1]	$1T_1, 2T_1, 15T_{86}^*$	$18T_{948}$ 2799360	$[18, 15, 6, 3^3, 2^6, 1^6]$	
[15, 2, 1]	$1T_1, 2T_1, 15T_{87}^*$	$18T_{949}^{+}$ 2799360	$[18, 15, 12, 3^3, 2^5, 1^7]$	
[15, 2, 1]	$1T_1, 2T_1, 15T_{87}^*$	$18T_{950}$ 2799360	$[18, 15, 12, 3^3, 2^5, 1^7]$	
[15, 2, 1]	$1T_1, 2T_1, 15T_{87}^*$	$18T_{956}$ $5598720$	$[18, 15, 12, 3^3, 2^6, 1^6]$	
[15, 2, 1]	$1T_1, 2T_1, 15T_{90}$	$18T_{957}^{+}$ 8398080	$[18, 15, 12, 9, 3^2, 2^5, 1^7]$	
[15, 2, 1]	$1T_1, 2T_1, 15T_{90}$	$18T_{960}$ $16796160$	$[18, 15, 12, 9, 3^2, 2^6, 1^6]$	
[15, 2, 1]	$1T_1, 2T_1, 15T_{93}$	$18T_{959}^{+}$ $16796160$	$[18, 15, 12, 9, 6, 3, 2^5, 1^7]$	
[15, 2, 1]	$1T_1, 2T_1, 15T_{93}$	$18T_{961}$ $16796160$	$[18, 15, 12, 9, 6, 3, 2^5, 1^7]$	
[15, 2, 1]	$1T_1, 2T_1, 15T_{93}$	$18T_{962}$ $33592320$	$[18, 15, 12, 9, 6, 3, 2^6, 1^6]$	
$[9, 4^2, 1]$	$1T_1, (4T_1^*)^2, 9T_9^{+*}$	$18T_{192}^{*}$ 648 $18T_{196}^{*}$ 648	$[18, 9, 4, 1^{15}]$	
$[9, 4^2, 1]$	$1T_1, (4T_1^*)^2, 9T_9^{+*}$		$   \begin{bmatrix}     18, 9, 4, 1^{15} \\     18, 9, 4, 1^{15}   \end{bmatrix} $	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$1T_1, (4T_1^*)^2, 9T_9^{+*}$	212		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		211	$   \begin{bmatrix}     18, 9, 4, 1^{15} \\     18, 9, 4, 2, 1^{14}   \end{bmatrix} $	
$[9, 4, 1]$ $[9, 4^2, 1]$	$1T_1, (4T_1), 9T_9$ $1T_1, (4T_1^*)^2, 9T_9^{+*}$	200	[18, 9, 4, 2, 1]	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$1T_1, (4T_1), 9T_9$ $1T_1, (4T_1^*)^2, 9T_9^{+*}$	$ \begin{array}{c cccc}  & 18T_{291}^* & 1296 \\  & 18T_{398}^* & 2592 \\ \end{array} $	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$[9, 4^2, 1]$	$1T_1, (4T_1), 9T_9$ $1T_1, (4T_3)^2, 9T_{16}^*$	$18T_{290}^{*}$ $1296$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$[9, 4^2, 1]$	$1T_1, (4T_3)^2, 9T_{16}^*$ $1T_1, (4T_3^*)^2, 9T_{16}^*$	$18T_{292}^*$ 1296	$   \begin{bmatrix}     18, 9, 4, 2, 1 \\     18, 9, 4, 2, 1^{14}   \end{bmatrix} $	
$[9, 4^2, 1]$	$1T_1, (4T_3^*)^2, 9T_{16}^*$	$18T_{304}^{*}$ 1296	$   \begin{bmatrix}     18, 9, 4, 2, 1^{14}   \end{bmatrix}   $	
$[9, 4^2, 1]$	$1T_1, (4T_3^*)^2, 9T_{16}^*$	$18T_{307}^*$ 1296	$[18, 9, 4, 2, 1^{14}]$	
$[9, 4^2, 1]$	$1T_1, (4T_3^*)^2, 9T_{16}^*$	$18T_{379}^{*}$ 2592	$[18, 9, 4, 2^2, 1^{13}]$	
$[9, 4^2, 1]$	$1T_1, (4T_3^*)^2, 9T_{16}^*$	$18T_{384}^{+*}$ 2592	$[18, 9, 4, 2^2, 1^{13}]$	
$[9, 4^2, 1]$	$1T_1, (4T_3^*)^2, 9T_{16}^*$	$18T_{387}^{*}$ 2592	$[18, 9, 4, 2^2, 1^{13}]$	
$[9, 4^2, 1]$	$1T_1, (4T_3^*)^2, 9T_{16}^*$	$18T_{390}^{*}$ 2592	$[18, 9, 4, 2^2, 1^{13}]$	
$[9, 4^2, 1]$	$1T_1, (4T_3^*)^2, 9T_{16}^*$	$18T_{391}^{*}$ 2592	$[18, 9, 4, 2^2, 1^{13}]$	
$[9, 4^2, 1]$	$1T_1, (4T_3^*)^2, 9T_{16}^*$	$18T_{474}^{*}$ 5184	$[18, 9, 4^2, 2, 1^{13}]$	
$[9, 4^2, 1]$	$1T_1, (4T_3^*)^2, 9T_{16}^*$	$18T_{477}^{+*}$ 5184	$[18, 9, 4^2, 2, 1^{13}]$	
$[9, 4^2, 1]$	$1T_1, (4T_3^*)^2, 9T_{16}^*$	$18T_{481}^*$ 5184	$[18, 9, 4, 2^3, 1^{12}]$	
$[9, 4^2, 1]$	$1T_1, (4T_3^*)^2, 9T_{16}^*$	$18T_{482}^{*}$ 5184	$[18, 9, 4, 2^3, 1^{12}]$	
$[9, 4^2, 1]$	$1T_1, (4T_3^*)^2, 9T_{16}^*$	$18T_{555}^*$ 10368	$[18, 9, 4^2, 2^2, 1^{12}]$	
$[6^2, 5, 1]$	$1T_1, 5T_2^{+*}, (6T_{12}^+)^2$	$18T_{911}^{+}$ 648000	$[18, 6^2, 5^3, 2^3, 1^9]$	
$[6^2, 5, 1]$	$1T_1, 5T_3^*, (6T_{14})^2$	$18T_{933}$ $1296000$	$[18, 6^2, 5^3, 4, 2^2, 1^9]$	
$[6^2, 5, 1]$	$1T_1, 5T_3^*, (6T_{14})^2$	$18T_{947}^{+}$ 2592000	$[18, 6^2, 5^3, 4^2, 2, 1^9]$	
$[6^2, 5, 1]$	$1T_1, 5T_3^*, (6T_{14})^2$	$18T_{953}$ $5184000$	$[18, 6^2, 5^3, 4^3, 1^9]$	
$[6^2, 5, 1]$	$1T_1, 5T_4^+, (6T_{15}^+)^2$	$18T_{967}^{+}$ $139968000$	$[18, 6^2, 5^3, 4^3, 3^3, 1^6]$	
$[6^2, 5, 1]$	$1T_1, 5T_5, (6T_{16})^2$	$18T_{969}$ 279936000	$[18, 6^2, 5^3, 4^3, 3^3, 2, 1^5]$	
$[6^2, 5, 1]$	$1T_1, 5T_5, (6T_{16})^2$	$18T_{973}^{+}$ 559872000	$[18, 6^2, 5^3, 4^3, 3^3, 2^2, 1^4]$	
$[6^2, 5, 1]$	$1T_1, 5T_5, (6T_{16})^2$	$18T_{974}$ $1119744000$	$[18, 6^2, 5^3, 4^3, 3^3, 2^3, 1^3]$	
[12, 5, 1]	$1T_1, 5T_2^{+*}, 12T_{269}^{+}$	$18T_{934}^{+}$ 1296000	$[18, 12, 6, 5^3, 2^3, 1^9]$	
[12, 5, 1]	$1T_1, 5T_3^*, 12T_{269}^+$	$18T_{935}$ $1296000$	$[18, 6^2, 5^3, 4, 2^2, 1^9]$	
[12, 5, 1]	$1T_1, 5T_3^*, 12T_{279}^+$	$18T_{946}$ $2592000$	$\begin{bmatrix} [18, 12, 6, 5^3, 4, 2^2, 1^9] \\ [18, 12, 6, 5^3, 4^2, 2, 1^9] \end{bmatrix}$	
[12, 5, 1]	$1T_1, 5T_3^*, 12T_{288}$	$18T_{954}$ 5184000	$[18, 12, 6, 5^3, 4^2, 2, 1^9]$	
$G$ : Possible Galois Groups, $D(G)$ : Degrees of factors, $S(G)$ : Galois Groups of factors, $\mathcal{L}(G)$ : Initial Degrees				

Splitting table of degree 18

D(G)	S(G)	$G \qquad  G $	$\mathcal{L}(G)$
[12, 5, 1]	$1T_1, 5T_3^*, 12T_{288}$	$18T_{955}^{+}$ 5184000	$[18, 12, 6, 5^3, 4^2, 2, 1^9]$
[12, 5, 1]	$1T_1, 5T_3^*, 12T_{288}$	$18T_{958}$ $10368000$	$[18, 12, 6, 5^3, 4^3, 1^9]$
[12, 5, 1]	$1T_1, 5T_4^+, 12T_{296}^+$	$18T_{971}^{+}$ 279936000	$[18, 12, 6, 5^3, 4^3, 3^3, 1^6]$
[12, 5, 1]	$1T_1, 5T_5, 12T_{296}^+$	$18T_{970}$ 279936000	$[18, 6^2, 5^3, 4^3, 3^3, 2, 1^5]$
[12, 5, 1]	$1T_1, 5T_5, 12T_{297}^+$	$18T_{972}$ $559872000$	$[18, 12, 6, 5^3, 4^3, 3^3, 2, 1^5]$
[12, 5, 1]	$1T_1, 5T_5, 12T_{299}$	$18T_{975}$ $1119744000$	$[18, 12, 6, 5^3, 4^3, 3^3, 2^2, 1^4]$
[12, 5, 1]	$1T_1, 5T_5, 12T_{299}$	$18T_{976}^{+}$ 1119744000	$[18, 12, 6, 5^3, 4^3, 3^3, 2^2, 1^4]$
[12, 5, 1]	$1T_1, 5T_5, 12T_{299}$	$18T_{977}$ 2239488000	$[18, 12, 6, 5^3, 4^3, 3^3, 2^3, 1^3]$
[9, 8, 1]	$1T_1, 8T_1^*, 9T_{15}^*$	$18T_{280}^{+*}$ 1296	$[18, 9, 8, 1^{15}]$
[9, 8, 1]	$1T_1, 8T_1^*, 9T_{15}^*$	$18T_{281}^{*}$ 1296	$[18, 9, 8, 1^{15}]$
[9, 8, 1]	$1T_1, 8T_1^*, 9T_{15}^*$	$18T_{297}^{*}$ 1296	$[18, 9, 8, 1^{15}]$
[9, 8, 1]	$1T_1, 8T_1^*, 9T_{15}^*$	$18T_{298}^{*}$ 1296	$[18, 9, 8, 1^{15}]$
[9, 8, 1]	$1T_1, 8T_1^*, 9T_{15}^*$	$18T_{302}^{*}$ 1296	$[18, 9, 8, 1^{15}]$
[9, 8, 1]	$1T_1, 8T_1^*, 9T_{15}^*$	$18T_{309}^{*}$ 1296	$[18, 9, 8, 1^{15}]$
[9, 8, 1]	$1T_1, 8T_1^*, 9T_{15}^*$	$18T_{378}^{+*}$ 2592	$[18, 9, 8, 2, 1^{14}]$
[9, 8, 1]	$1T_1, 8T_1^*, 9T_{15}^*$	$18T_{381}^{*}$ 2592	$[18, 9, 8, 2, 1^{14}]$
[9, 8, 1]	$1T_1, 8T_1^*, 9T_{15}^*$	$18T_{382}^{*}$ 2592	$[18, 9, 8, 2, 1^{14}]$
[9, 8, 1]	$1T_1, 8T_1^*, 9T_{15}^*$	$18T_{389}^{*}$ 2592	$[18, 9, 8, 2, 1^{14}]$
[9, 8, 1]	$1T_1, 8T_1^*, 9T_{15}^*$	$18T_{469}^{*}$ 5184	$[18, 9, 8, 4, 1^{14}]$
[9, 8, 1]	$1T_1, 8T_1^*, 9T_{15}^*$	$ \begin{array}{rrr} 18T_{469}^* & 5184 \\ 18T_{470}^{+*} & 5184 \end{array} $	$[18, 9, 8, 4, 1^{14}]$
[9, 8, 1]	$1T_1, 8T_1^*, 9T_{15}^*$	$18T_{553}^{*}$ 10368	$[18, 9, 8^2, 1^{14}]$
[9, 8, 1]	$1T_1, 8T_5^{+*}, 9T_{14}^{+*}$	$18T_{293}^{*}$ 1296	$[18, 9, 8, 1^{15}]$
[9, 8, 1]	$1T_1, 8T_5^{+*}, 9T_{14}^{+*}$	$18T_{294}^{*}$ 1296	$[18, 9, 8, 1^{15}]$
[9, 8, 1]	$1T_1, 8T_5^{+*}, 9T_{14}^{+*}$	$18T_{306}^{*}$ 1296	$[18, 9, 8, 1^{15}]$
[9, 8, 1]	$1T_1, 8T_5^{+*}, 9T_{14}^{+*}$	$18T_{318}^{*}$ 1296	$[18, 9, 8, 1^{15}]$
[9, 8, 1]	$1T_1, 8T_5^{+*}, 9T_{14}^{+*}$	$18T_{380}^{*}$ 2592	$[18, 9, 8, 2, 1^{14}]$
[9, 8, 1]	$1T_1 8T^{+*} 9T^{+*}$	$18T_{392}^{*}$ 2592	$[18, 9, 8, 2, 1^{14}]$
[9, 8, 1]	$egin{array}{cccccccccccccccccccccccccccccccccccc$	$18T_{395}^{*}$ 2592	$[18, 9, 8, 2, 1^{14}]$
[9, 8, 1]	$1T_1, 8T_5^{+*}, 9T_{14}^{+*}$	$18T_{479}^{*}$ 5184	$[18, 9, 8, 4, 1^{14}]$
[9, 8, 1]	$1T_1, 8T_5^{+*}, 9T_{14}^{+*}$	$18T_{480}^{*}$ 5184	$[18, 9, 8, 4, 1^{14}]$
[9, 8, 1]	$1T_1, 8T_5^{+*}, 9T_{14}^{+*}$	$18T_{560}^{*}$ 10368	$[18, 9, 8^2, 1^{14}]$
[9, 8, 1]	$1T_1, 8T_8^*, 9T_{19}^*$	$18T_{383}^{*}$ 2592	$[18, 9, 8, 2, 1^{14}]$
[9, 8, 1]	$1T_1, 8T_8^*, 9T_{19}^*$	$18T_{385}^{*}$ 2592	$[18, 9, 8, 2, 1^{14}]$
9, 8, 1]	$1T_1, 8T_8^*, 9T_{19}^*$	$18T_{386}^{*}$ 2592	$[18, 9, 8, 2, 1^{14}]$
[9, 8, 1]	$1T_1, 8T_8^*, 9T_{19}^*$	$18T_{393}^{*}$ 2592	$[18, 9, 8, 2, 1^{14}]$
9, 8, 1	$1T_1, 8T_8^*, 9T_{19}^*$	$18T_{471}^{*}$ 5184	$[18, 9, 8, 2^2, 1^{13}]$
9, 8, 1	$1T_1, 8T_8^*, 9T_{19}^*$	$18T_{475}^{*}$ 5184	$[18, 9, 8, 2^2, 1^{13}]$
9, 8, 1	$1T_1, 8T_8^*, 9T_{19}^*$	$18T_{476}^{*}$ 5184	$[18, 9, 8, 2^2, 1^{13}]$
9, 8, 1	$1T_1, 8T_8^*, 9T_{19}^*$	$18T_{478}^{**}$ 5184	$[18, 9, 8, 2^2, 1^{13}]$
[9, 8, 1]	$1T_1, 8T_8^*, 9T_{19}^*$	$18T_{554}^{*}$ 10368	[18, 9, 8, 4, 2, 1 <sup>13</sup> ]
[9, 8, 1]	$1T_1, 8T_8^*, 9T_{19}^*$	$18T_{557}^{*}$ 10368	$[18, 9, 8, 4, 2, 1^{13}]$
[9, 8, 1]	$1T_1, 8T_8^*, 9T_{19}^*$	$18T_{558}^{*}$ 10368	[18, 9, 8, 4, 2, 1 <sup>13</sup> ]
[9, 8, 1]	$1T_1, 8T_8^*, 9T_{19}^*$	$18T_{559}^{+*}$ 10368	$[18, 9, 8, 4, 2, 1^{13}]$
[9, 8, 1]	$1T_1, 8T_8^*, 9T_{19}^*$	$18T_{561}^{*}$ 10368	$[18, 9, 8, 4, 2, 1^{13}]$
[9, 8, 1]	$1T_1, 8T_8^*, 9T_{19}^*$	$18T_{562}^{+*}$ 10368	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
	Possible Galois Groups, $D(G)$ : Deg		

Splitting table of degree 18

D(G)	S(G)	G	$\mid G \mid$	$\mathcal{L}(G)$
[9, 8, 1]	$1T_1, 8T_8^*, 9T_{19}^*$	$18T_{563}^{*}$	10368	$[18, 9, 8, 4, 2, 1^{13}]$
[9, 8, 1]	$1T_1, 8T_8^*, 9T_{19}^*$	$18T_{634}^*$	20736	$[18, 9, 8^2, 2, 1^{13}]$
[9, 8, 1]	$1T_1, 8T_8^*, 9T_{19}^*$	$18T_{635}^*$	20736	$   \begin{bmatrix}     18, 9, 8^2, 2, 1^{13}   \end{bmatrix}   $
[9, 8, 1]	$1T_1, 8T_8^*, 9T_{19}^*$	$18T_{636}^{*}$	20736	$[18, 9, 8^2, 2, 1^{13}]$
[9, 8, 1]	$1T_1, 8T_8^*, 9T_{19}^*$	$18T_{637}^{+*}$	20736	$[18, 9, 8^2, 2, 1^{13}]$
[9, 8, 1]	$1T_1, 8T_8^*, 9T_{19}^*$	$18T_{638}^*$	20736	$[18, 9, 8, 4, 2^2, 1^{12}]$
[9, 8, 1]	$1T_1, 8T_8^*, 9T_{19}^*$	$18T_{639}^{*}$	20736	$[18, 9, 8, 4, 2^2, 1^{12}]$
[9, 8, 1]	$1T_1, 8T_8^*, 9T_{19}^*$	$18T_{697}^*$	41472	$[18, 9, 8^2, 2^2, 1^{12}]$
[9, 8, 1]	$1T_1, 8T_{12}^{+*}, 9T_{23}^{+*}$	$18T_{442}^{*}$	3888	$[18, 9, 8, 3, 1^{14}]$
[9, 8, 1]	$1T_1, 8T_{12}^{+*}, 9T_{23}^{+*}$	$18T_{443}^*$	3888	$[18, 9, 8, 3, 1^{14}]$
[9, 8, 1]	$1T_1, 8T_{12}^{+*}, 9T_{23}^{+*}$	$18T_{450}^{*}$	3888	$[18, 9, 8, 3, 1^{14}]$
[9, 8, 1]	$1T_1, 8T_{12}^{+*}, 9T_{23}^{+*}$	$18T_{451}^*$	3888	$[18, 9, 8, 3, 1^{14}]$
[9, 8, 1]	$1T_1, 8T_{12}^{+*}, 9T_{23}^{+*}$	$18T_{522}^*$	7776	$[18, 9, 8, 3, 2, 1^{13}]$
[9, 8, 1]	$1T_1, 8T_{12}^{+*}, 9T_{23}^{+*}$ $1T_1, 8T_{12}^{+*}, 9T_{23}^{+*}$ $1T_1, 8T_{12}^{+*}, 9T_{23}^{+*}$ $1T_1, 8T_{12}^{+*}, 9T_{23}^{+*}$	$18T_{525}^{*}$	7776	$[18, 9, 8, 3, 2, 1^{13}]$
[9, 8, 1]	$1T_1, 8T_{12}^{+*}, 9T_{23}^{+*}$	$18T_{667}^{*}$	31104	$[18, 9, 8^2, 3, 1^{13}]$
[9, 8, 1]	$1T_1, 8T_{12}^{+*}, 9T_{23}^{+*}$	$18T_{668}^{*}$	31104	$[18, 9, 8^2, 3, 1^{13}]$
[9, 8, 1]	$1T_1, 8T_{12}^{+*}, 9T_{23}^{+*}$	$18T_{792}^{*}$	93312	$[18, 9, 8^2, 3^2, 1^{12}]$
[9, 8, 1]	$1T_1, 8T_{23}^*, 9T_{26}^*$	$18T_{524}^*$	7776	$[18, 9, 8, 6, 1^{14}]$
[9, 8, 1]	$1T_1, 8T_{23}^*, 9T_{26}^*$	$18T_{526}^*$	7776	$[18, 9, 8, 6, 1^{14}]$
[9, 8, 1]	$1T_1, 8T_{23}^*, 9T_{26}^*$	$ \begin{array}{c c} 18T_{526}^* \\ 18T_{527}^* \end{array} $	7776	$[18, 9, 8, 6, 1^{14}]$
[9, 8, 1]	$1T_1, 8T_{23}^*, 9T_{26}^*$	$18T_{528}^*$	7776	$[18, 9, 8, 6, 1^{14}]$
[9, 8, 1]	$1T_1, 8T_{23}^*, 9T_{26}^*$	$18T_{597}^*$	15552	$[18, 9, 8, 6, 2, 1^{13}]$
[9, 8, 1]	$1T_1, 8T_{23}^*, 9T_{26}^*$	$18T^*_{737}$	62208	$[18, 9, 8^2, 6, 1^{13}]$
[9, 8, 1]	$1T_1, 8T_{23}^*, 9T_{26}^*$	$18T_{850}^*$	186624	$[18, 9, 8^2, 6, 3, 1^{12}]$
[9, 8, 1]	$1T_1, 8T_{23}^*, 9T_{26}^*$	$18T_{851}^{+*}$	186624	$[18, 9, 8^2, 6, 3, 1^{12}]$
[9, 8, 1]	$1T_1, 8T_{23}^*, 9T_{26}^*$	$18T_{889}^*$	373248	$[18, 9, 8^2, 6^2, 1^{12}]$
[9, 8, 1]	$1T_1, 8T_{25}^{+*}, 9T_{27}^{+}$	$18T_{897}$	508032	$[18, 9, 8^2, 7^2, 1^{12}]$
[9, 8, 1]	$1T_1, 8T_{36}^{+*}, 9T_{32}^{+}$	$18T_{937}$	1524096	$[18, 9, 8^2, 7^2, 3, 1^{11}]$
[9, 8, 1]	$1T_1, 8T_{36}^{+*}, 9T_{32}^{+}$	$18T_{938}$	1524096	$[18, 9, 8^2, 7^2, 3, 1^{11}]$
[9, 8, 1]	$1T_1, 8T_{36}^{+*}, 9T_{32}^{+}$	$18T_{952}$	4572288	$[18, 9, 8^2, 7^2, 3^2, 1^{10}]$
[9, 8, 1]	$1T_1, 8T_{49}^+, 9T_{33}^+$	$18T_{978}$	65840947200	$[18, 9, 8^2, 7^2, \dots, 3^2, 1^4]$
[9, 8, 1]	$1T_1, 8T_{50}, 9T_{34}$	$18T_{979}^{+}$	131681894400	$[18, 9, 8^2, 7^2, \dots, 3^2, 2, 1^3]$
[9, 8, 1]	$1T_1, 8T_{50}, 9T_{34}$	$18T_{980}$	131681894400	$[18, 9, 8^2, 7^2, \dots, 3^2, 2, 1^3]$
[9, 8, 1]	$1T_1, 8T_{50}, 9T_{34}$	$18T_{981}$	263363788800	$[18, 9, 8^2, 7^2, \dots, 3^2, 2^2, 1^2]$
[17, 1]	$1T_1, 17T_4^{+*}$	$18T_{377}^{+}$	2448	$[18, 17, 8, 1^{15}]$
[17, 1]	$1T_1, 17T_5^*$	$18T_{468}$	4896	$[18, 17, 16, 1^{15}]$
[17, 1]	$1T_1, 17T_9^+$	$18T_{982}^{+}$	18! / 2	$[18, \ldots, 3, 1^2]$
[17, 1]	$1T_1, 17T_{10}$	$18T_{983}$	18!	$[18, \ldots, 1]$
G: Po	ssible Galois Groups, $D(G)$ : Degrees of	factors, $S($	G): Galois Groups o	f factors, $\mathcal{L}(G)$ : Initial Degrees

D(G)	S(G)	G	$\mid G \mid$	$\mathcal{L}(G)$
$[1^{19}]$	$(1T_1)^{19}$	$19T_1^{+*}$	19	$[19, 1^{18}]$
$[2^9, 1]$	$1T_1, (2T_1)^9$	$19T_2^*$	38	$[19, 2, 1^{17}]$
$[3^6, 1]$	$1T_1, (3T_1^{+*})^6$	$19T_3^{+*}$	57	$[19, 3, 1^{17}]$
$[6^3, 1]$	$1T_1, (6T_1^*)^3$	$19T_{4}^{*}$	114	$[19, 6, 1^{17}]$
$[9^2, 1]$	$1T_1, (9T_1^{+*})^2$	$19T_5^{+*}$	171	$[19, 9, 1^{17}]$
[18, 1]	$1T_1, 18T_1^*$	$19T_6^*$	342	$[19, 18, 1^{17}]$
[18, 1]	$1T_1, 18T_{982}^+$	$19T_7^+$	19! / 2	$[19,\ldots,3,1^2]$
[18, 1]	$1T_1, 18T_{983}$	$19T_{8}$	19!	$[19, \ldots, 1]$
G: Possibl	le Galois Groups, D	Q(G): Degree	es of facto	ors, $S(G)$ : Galois Groups of factors, $\mathcal{L}(G)$ : Initial Degrees

Splitting table of degree 20

D(G)	S(G)	$G \qquad  G $	$\mathcal{L}(G)$
$[1^{20}]$	$(1T_1)^{20}$	$20T_1^*$ 20	$[20, 1^{19}]$
$[1^{20}]$	$(1T_1)^{20}$	$20T_2^*$ 20	$[20, 1^{19}]$
$[1^{20}]$	$(1T_1)^{20}$	$20T_3^{+*}$ 20	$[20, 1^{19}]$
$[1^{20}]$	$(1T_1)^{20}$	$20T_4^{+*}$ 20	$[20, 1^{19}]$
$[1^{20}]$	$(1T_1)^{20}$	$20T_{5}^{*}$ 20	$[20, 1^{19}]$
$[2^5, 1^{10}]$	$(1T_1)^{10}$ , $(2T_1)^5$	$20T_{11}^*$ 40	$[20, 2, 1^{18}]$
$[2^5, 1^{10}]$	$\begin{array}{c} (1T_1)^{10}, \ (2T_1)^5 \\ (1T_1)^{10}, \ (2T_1)^5 \\ (1T_1)^{10}, \ (5T_1^{+*})^2 \\ (1T_1)^{10}, \ (5T_1^{+*})^2 \\ \end{array}$	$20T_{12}^*$ 40	$[20, 2, 1^{18}]$
$[5^2, 1^{10}]$	$(1T_1)^{10}, (5T_1^{+*})^2$	$20T_{24}^{+*}$ 100	$[20, 5, 1^{18}]$
$[5^2, 1^{10}]$	$(1T_1)^{10}, (5T_1^{+*})^2$	$20T_{25}^*$ 100	$[20, 5, 1^{18}]$
$[5^2, 1^{10}]$	$(1T_1)^{10}, (5T_1^{1+*})^2$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$[20, 5, 1^{18}]$
$[5^2, 1^{10}]$	$ \begin{array}{c} (1T_1)^{10}, \ (5T_1^{+*})^2 \\ (1T_1)^{10}, \ 10T_1^* \end{array} $	$20T_{28}^{+*}$ 100	$[20, 5, 1^{18}]$
$[10, 1^{10}]$	$(1T_1)^{10}, 10T_1^*$	$20T_{53}^*$ 200	$[20, 10, 1^{18}]$
$[10, 1^{10}]$	$(1T_1)^{10}, 10T_2^*$	$20T_{48}^*$ 200	$[20, 10, 1^{18}]$
$[3^5, 1^5]$	$(1T_1)^5$ , $(3T_1^{+*})^5$	$20T_{14}^{+*}$ 60	$[20, 3, 1^{18}]$
$[3^5, 1^5]$	$(1T_1)^5$ , $(3T_2^*)^5$	$20T_{34}^*$ 120	$[20, 3, 2, 1^{17}]$
$[5^3, 1^5]$	$(1T_1)^5$ , $(5T_1^{+*})^3$	$20T_{26}^*$ 100	$[20, 5, 1^{18}]$
$[5^3, 1^5]$	$(1T_1)^5, (5T_1^{+*})^3$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$[20, 5, 1^{18}]$
$[5^3, 1^5]$	$(1T_1)^5$ , $(5T_1^{+*})^3$	$20T_{124}^{+*}$ 500	$[20, 5^2, 1^{17}]$
$[5^3, 1^5]$	$(1T_1)^5$ , $(5T_1^{+*})^3$	$20T_{125}^*$ 500	$[20, 5^2, 1^{17}]$
$[5^3, 1^5]$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$20T_{126}^*$ 500	$[20, 5^2, 1^{17}]$
$[5^3, 1^5]$	$(1T_1)^5$ , $(5T_1^{+*})^3$	$20T_{127}^*$ 500	$[20, 5^2, 1^{17}]$
$[5^3, 1^5]$	$(1T_1)^5$ , $(5T_1^{+*})^3$	$20T_{128}^{+*}$ 500	$[20, 5^2, 1^{17}]$
$[5^3, 1^5]$	$(1T_1)^5$ , $(5T_1^{+*})^3$	$20T_{237}^*$ 2500	$[20, 5^3, 1^{16}]$
$[5^3, 1^5]$	$(1T_1)^5, (5T_1^{+*})^3$	$20T_{238}^{+*}$ 2500	$[20, 5^3, 1^{16}]$
$[10, 5, 1^5]$	$(1T_1)^5$ , $5T_1^{+*}$ , $10T_6^*$	$ \begin{array}{ccc} 20T_{181}^* & 1000 \\ 20T_{185}^* & 1000 \end{array} $	$[20, 10, 5, 1^{17}]$
$[10, 5, 1^5]$	$(1T_1)^5$ , $5T_1^{+*}$ , $10T_6^*$	$20T_{185}^*$ 1000	$[20, 10, 5, 1^{17}]$
$[10, 5, 1^5]$	$(1T_1)^5$ , $5T_1^{+*}$ , $10T_6^*$	$ \begin{array}{ccc} 20T_{299}^{**} & 5000 \\ 20T_{209}^{+*} & 1500 \end{array} $	$[20, 10, 5^2, 1^{16}]$
$[15, 1^5]$	$(1T_1)^5$ , $15T_9^{+*}$	$20T_{209}^{+*}$ 1500	$[20, 15, 5, 1^{17}]$
$[15, 1^5]$	$(1T_1)^5$ , $15T_{13}^*$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$[20, 15, 10, 1^{17}]$
$[15, 1^5]$	$(1T_1)^5$ , $15T_{25}^{+*}$	$20T_{364}^{+*}$ 7500	$[20, 15, 5^2, 1^{16}]$
$[15, 1^5]$	$(1T_1)^3$ , $15T_{32}^*$	$20T_{462}^*$ 15000	[20, 15, 10, 5, 1 <sup>16</sup> ]
$[2^8, 1^4]$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$20T_6^*$ 40	[20, 2, 1 <sup>18</sup> ]
$[2^8, 1^4]$	$(1I_1)^4$ , $(2I_1)^6$	$20T_8^{+*}$ 40	[20, 2, 1 <sup>18</sup> ]
$[2^8, 1^4]$	$(1T_1)^4$ , $(2T_1)^8$	$20T_9^*$ 40 $20T_{13}^{+*}$ 40	[20, 2, 1 <sup>18</sup> ]
$[2^8, 1^4]$	$(1T_1)^4$ , $(2T_1)^8$	20T <sub>13</sub> 40	$\begin{bmatrix} 20, 2, 1^{18} \end{bmatrix}$
$[2^8, 1^4]$	$(1T_1)^4$ , $(2T_1)^8$	$20T_{43}^{+*}$ 160	$ \begin{array}{c ccccc} [20, 2^3, 1^{16}] \\ [20, 2^3, 1^{16}] \end{array} $
$\frac{[2^8, 1^4]}{[2^8, 1^4]}$	$(1T_1)^4$ , $(2T_1)^8$	$20T_{44}^{+*}$ 160	L / / J
L / J	$ \begin{array}{c} (1T_1)^4, \ (2T_1)^8 \\ (1T_1)^4, \ (2T_1)^8 \end{array} $	$20T_{75}^*$ 320	L / / J
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		$20T_{81}^{+*}$ 320 $20T_{84}^{*}$ 320	
$[2^{8}, 1^{4}]$	$\begin{array}{c c} (1T_1)^4, \ (2T_1)^8 \\ (1T_1)^4, \ (2T_1)^8 \end{array}$	04	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$
$[4^2, 2^4, 1^4]$	$(1T_1)^4, (2T_1)^4, (4T_2^{+*})^2$	$ \begin{array}{c cccc} 20T_{86}^{+*} & 320 \\ \hline 20T_{17}^{+*} & 80 \end{array} $	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
[4, 2, 1] $[4^2, 2^4, 1^4]$	$(1T_1)^4, (2T_1)^4, (4T_2^{+*})^2$		$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^{4}, 2^{5}, 1^{5}]$	$(1T_1)^4, (2T_1)^4, (4T_2^*)^4$	$\begin{array}{c cc} 20T_{41}^{+*} & 160 \\ 20T_{16}^{+*} & 80 \end{array}$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
[4, 1]	$(1T_1)^4, (4T_1)^4$ $(1T_1)^4, (4T_1^*)^4$	$20T_{16}$ 80 $20T_{20}^*$ 80	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
	$ \begin{array}{c} (111) \end{array}, \begin{array}{c} (41_1) \\ G \end{array}$ : Possible Galois Groups, $D(G)$ : De		
<u> </u>	G. I distinct Galois Groups, $D(G)$ : De	grees of factors, $\mathcal{D}(G)$ . Gaiois Gro	aps of factors, $\mathcal{L}(G)$ . Initial Degrees

Splitting table of degree 20

D(G)	S(G)	G   G	$\mathcal{L}(G)$
$[4^4, 1^4]$	$(1T_1)^4, (4T_1^*)^4$	$20T_{193}^{+*}$ 1280	$[20, 4^3, 1^{16}]$
$[4^4, 1^4]$	$(1T_1)^4, (4T_1^*)^4$	$20T_{250}^{+*}$ 2560	$[20, 4^3, 2, 1^{15}]$
$[4^4, 1^4]$	$(1T_1)^4, (4T_1^*)^4$	$20T_{335}^*$ 5120	$[20, 4^4, 1^{15}]$
$[4^4, 1^4]$	$(1T_1)^4, (4T_2^{+*})^4$	$20T_{23}^{+*}$ 80	$[20, 4, 1^{18}]$
$[4^4, 1^4]$	$(1T_1)^4$ , $(4T_2^{+*})^4$	$20T_{40}^{+*}$ 160	$[20, 4, 2, 1^{17}]$
$[4^4, 1^4]$	$(1T_1)^4$ , $(4T_2^{+*})^4$	$20T_{46}^{+*}$ 160	$[20, 4, 2, 1^{17}]$
$[4^4, 1^4]$	$(1T_1)^4, (4T_2^{+*})^4$	$\begin{array}{cccc} 20T_{40}^{+*} & 160 \\ 20T_{46}^{+*} & 160 \\ 20T_{72}^{+*} & 320 \\ & 20T_{74}^{+*} & 320 \\ & 20T_{190}^{+*} & 1280 \\ & 20T_{263}^{+*} & 2560 \\ & 20T_{341}^{+*} & 5120 \\ & 20T_{71}^{+*} & 320 \\ \end{array}$	$[20, 4^2, 1^{17}]$
$[4^4, 1^4]$	$(1T_1)^4, (4T_2^{+*})^4$	$20T_{74}^{+*}$ 320	$[20, 4, 2^2, 1^{16}]$
$[4^4, 1^4]$	$(1T_1)^4, (4T_2^{+*})^4$	$20T_{190}^{+*}$ 1280	$[20, 4^3, 1^{16}]$
$[4^4, 1^4]$	$(1T_1)^4$ , $(4T_2^{+*})^4$	$20T_{263}^{+*}$ 2560	$[20, 4^3, 2, 1^{15}]$
$[4^4, 1^4]$	$(1T_1)^4, (4T_2^{+*})^4$	$20T_{341}^{+*}$ 5120	$[20, 4^4, 1^{15}]$
$[4^4, 1^4]$	$(1T_1)^4$ , $(4T_3^*)^4$	$20T_{71}^{+*}$ 320	$[20, 4, 2^2, 1^{16}]$
$[4^4, 1^4]$	$(1T_1)^4$ , $(4T_3^*)^4$	$\begin{array}{ccc} 20T_{73}^{+*} & 320 \\ 20T_{79}^{+*} & 320 \end{array}$	$[20, 4, 2^2, 1^{16}]$
$[4^4, 1^4]$	$(1T_1)^4$ , $(4T_3^*)^4$	$20T_{79}^{+*}$ 320	$[20, 4, 2^2, 1^{16}]$
$[4^4, 1^4]$	$(1T_1)^4$ , $(4T_3^*)^4$	$20T_{88}^*$ 320	$[20, 4, 2^2, 1^{16}]$
$[4^4, 1^4]$	$(1T_1)^4$ , $(4T_3^*)^4$	$20T_{135}^{*}$ 640	$[20, 4, 2^3, 1^{15}]$
$[4^4, 1^4]$	$(1T_1)^4$ , $(4T_3^*)^4$	$20T_{140}^{+*}$ 640	$[20, 4, 2^3, 1^{15}]$
$[4^4, 1^4]$	$(1T_1)^4$ , $(4T_3^*)^4$	$20T_{141}^{+*}$ 640	$[20, 4, 2^3, 1^{15}]$
$[4^4, 1^4]$	$(1T_1)^4, (4T_3^*)^4$	$20T_{144}^{*}$ 640	$[20, 4, 2^3, 1^{15}]$
$[4^4, 1^4]$	$(1T_1)^4$ , $(4T_4^{+*})^4$	$20T_{63}$ 240	$[20, 4, 3, 1^{17}]$
$[4^4, 1^4]$	$(1T_1)^4$ , $(4T_4^{+*})^4$	$20T_{64}^{+}$ 240	$[20, 4, 3, 1^{17}]$
$[4^4, 1^4]$	$(1T_1)^4$ , $(4T_4^{+*})^4$	$20T_{66}$ 240	$[20, 4, 3, 1^{17}]$
$[4^4, 1^4]$	$(1T_1)^4$ , $(4T_4^{+*})^4$	$20T_{70}^{+}$ 240	$[20, 4, 3, 1^{17}]$
$[4^4, 1^4]$	$(1T_1)^4$ , $(4T_5^*)^4$	$\begin{array}{ccc} 20T_{70}^{+} & 240 \\ 20T_{117}^{+} & 480 \end{array}$	$[20, 4, 3, 2, 1^{16}]$
$[4^4, 1^4]$	$(1T_1)^4$ , $(4T_5^*)^4$	$ 20T_{123} - 480 $	$[20, 4, 3, 2, 1^{16}]$
$[8^2, 1^4]$	$(1T_1)^4, (8T_2^{+*})^2$	$20T_{45}^{+*}$ 160	$[20, 8, 1^{18}]$
$[8^2, 1^4]$	$(1T_1)^4$ , $(8T_3^{+*})^2$	$\begin{array}{ccc} 20T_{45}^{+*} & 160 \\ 20T_{39}^{+*} & 160 \end{array}$	$[20, 8, 1^{18}]$
$[8^2, 1^4]$	$(1T_1)^4$ , $(8T_9^{+*})^2$	$20T_{85}^{+*}$ 320	$[20, 8, 2, 1^{17}]$
$[8^2, 1^4]$	$(1T_1)^4$ , $(8T_{10}^{+*})^2$	$20T_{76}^{+*}$ 320	$[20, 8, 2, 1^{17}]$
$[8^2, 1^4]$	$(1T_1)^4$ , $(8T_{16}^*)^2$	$20T_{131}^{+*}$ 640	$[20, 8, 2^2, 1^{16}]$
$[8^2, 1^4]$	$(1T_1)^4$ , $(8T_{17}^*)^2$	$20T_{246}^{+*}$ 2560	$[20, 8, 4^2, 1^{16}]$
$[8^2, 1^4]$	$(1T_1)^4$ , $(8T_{17}^*)^2$	$20T_{249}^{+*}$ 2560	$[20, 8, 4^2, 1^{16}]$
$[8^2, 1^4]$	$(1T_1)^4$ , $(8T_{17}^*)^2$	$\begin{array}{cccc} 20T_{85}^{+*} & 320 \\ 20T_{76}^{+*} & 320 \\ 20T_{131}^{+*} & 640 \\ 20T_{246}^{+*} & 2560 \\ 20T_{249}^{+*} & 2560 \\ 20T_{313}^{+*} & 5120 \\ \end{array}$	$[20, 8, 4^2, 2, 1^{15}]$
$[8^2, 1^4]$	$(1T_1)^4$ , $(8T_{17}^*)^2$	$20T_{318}^*$ 5120	$[20, 8, 4^2, 2, 1^{15}]$
$[8^2, 1^4]$	$(1T_1)^4$ , $(8T_{17}^*)^2$	$20T_{418}^{*}$ 10240	$[20, 8, 4^3, 1^{15}]$
$[8^2, 1^4]$	$(1T_1)^4$ , $(8T_{18}^{+*})^2$	$20T_{143}^{+*}$ 640	$[20, 8, 4, 1^{17}]$
$[8^2, 1^4]$	$(1T_1)^4$ , $(8T_{18}^{+*})^2$	$20T_{240}^{143}$ 2560	$[20, 8, 4^2, 1^{16}]$
$[8^2, 1^4]$	$(1T_1)^4$ , $(8T_{18}^{+*})^2$	$20T_{260}^{+*}$ 2560	$[20, 8, 4^2, 1^{16}]$
$[8^2, 1^4]$	$(1T_1)^4$ , $(8T_{18}^{+*})^2$	$20T_{322}^{+*}$ 5120	$[20, 8, 4^2, 2, 1^{15}]$
$[8^2, 1^4]$	$(1T_1)^4$ , $(8T_{18}^{+*})^2$	$20T_{348}^{+*}$ 5120	$[20, 8, 4^2, 2, 1^{15}]$
$[8^2, 1^4]$	$(1T_1)^4$ , $(8T_{18}^{+*})^2$	$20T_{412}^{+*}$ 10240	$[20, 8, 4^3, 1^{15}]$
$[8^2, 1^4]$	$(1T_1)^4$ , $(8T_{20}^{+*})^2$	$20T_{137}^{+*}$ 640	$[20, 8, 2^2, 1^{16}]$
$[8^2, 1^4]$	$(1T_1)^4$ , $(8T_{27}^*)^2$	$20T_{186}^*$ 1280	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[8^2, 1^4]$	$(1T_1)^4$ , $(8T_{27}^*)^2$	$\begin{array}{c c} 20T_{186}^{+} & 1280 \\ 20T_{196}^{+*} & 1280 \end{array}$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[8^2, 1^4]$	$(1T_1)^4$ , $(8T_{32}^{+*})^2$	$20T_{226}^{+}$ 1920	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
r / 1		G): Degrees of factors, $S(G)$ : Galois	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Splitting table of degree 20

D(G)	S(G)	$G \qquad  G $	$\mathcal{L}(G)$
$[8^2, 1^4]$	$(1T_1)^4, (8T_{32}^{+*})^2$	$20T_{230}^{+}$ 1920	$[20, 8, 6, 2, 1^{16}]$
$[8^2, 1^4]$	$(1T_1)^4, (8T_{38}^*)^2$	$20T_{275}^{+}$ 3840	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[8^2, 1^4]$	$(1T_1)^4, (8T_{38}^*)^2$	$20T_{277}^{+}$ 3840	$[20, 8, 6, 2^2, 1^{15}]$
$[8^2, 1^4]$	$(1T_1)^4, (8T_{38}^*)^2$	$20T_{283}$ 3840	$[20, 8, 6, 2^2, 1^{15}]$
$[8^2, 1^4]$	$(1T_1)^4$ , $(8T_{29}^*)^2$	$20T_{290}$ 3840	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[8^2, 1^4]$	$ \begin{array}{c} (1T_1)^4, \ (8T_{38}^*)^2 \\ (1T_1)^4, \ (8T_{39}^{+*})^2 \end{array} $	$20T_{279}^{+}$ 3840	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[8^2, 1^4]$	$(1T_1)^4$ , $(8T_{40}^*)^2$	$\begin{array}{ccc} 20T_{279}^{+} & 3840 \\ 20T_{288}^{+} & 3840 \\ 20T_{368}^{+} & 7680 \end{array}$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[8^2, 1^4]$	$(1T_1)^4$ , $(8T_{44})^2$	$20T_{288}^{+}$ $7680$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[8^2, 1^4]$	$(111)$ , $(01_{44})$	$20T_{368}$ $7680$ $20T_{369}$ $7680$	
	$(1T_1)^4$ , $(8T_{44}^*)^2$	$20T_{369}$ $7680$	$[20, 8, 6, 4, 2, 1^{15}]$
$[16, 1^4]$	$(1T_1)^4$ , $16T_{533}^{+*}$	$\begin{array}{cccc} 20T_{306}^{+*} & 5120 \\ 20T_{305}^{**} & 5120 \\ 20T_{305}^{+*} & 5120 \\ 20T_{351}^{-**} & 5120 \\ 20T_{330}^{**} & 5120 \\ 20T_{443}^{**} & 10240 \\ 20T_{434}^{+*} & 10240 \\ 20T_{422}^{+*} & 10240 \\ 20T_{406}^{+*} & 10240 \\ 20T_{468}^{+*} & 15360 \\ \end{array}$	$\begin{bmatrix} 20, \ 16, \ 4^2, \ 1^{16} \end{bmatrix}$
$[16, 1^4]$	$(1T_1)^4$ , $16T_{551}^*$	$20T_{332}^*$ 5120	$[20, 16, 4^2, 1^{16}]$
$[16, 1^4]$	$(1T_1)^4$ , $16T_{563}^{+*}$	$20T_{305}^{+*}$ 5120	$[20, 16, 4^2, 1^{16}]$
$[16, 1^4]$	$(1T_1)^4$ , $16T_{564}^{+*}$	$20T_{351}^{+*}$ 5120	$[20, 16, 4^2, 1^{16}]$
$[16, 1^4]$	$(1T_1)^4$ , $16T_{581}^{+*}$	$20T_{330}^{+*}$ 5120	$[20, 16, 4^2, 1^{16}]$
$[16, 1^4]$	$(1T_1)^4$ , $16T_{888}^*$	$20T_{443}^*$ 10240	$[20, 16, 4^2, 2, 1^{15}]$
$[16, 1^4]$	$(1T_1)^4$ , $16T_{898}^{+*}$	$20T_{434}^{+*}$ 10240	$[20, 16, 4^2, 2, 1^{15}]$
$[16, 1^4]$	$(1T_1)^4$ , $16T_{911}^{+*}$	$20T_{422}^{+*}$ 10240	$[20, 16, 4^2, 2, 1^{15}]$
$[16, 1^4]$	$\begin{array}{c} (1T_1)^4, \ 16T_{911}^{+*} \\ (1T_1)^4, \ 16T_{925}^{+*} \\ (1T_1)^4, \ 16T_{1071}^{+*} \\ \end{array}$	$20T_{406}^{+*}$ 10240	$[20, 16, 4^2, 2, 1^{15}]$
$[16, 1^4]$	$(1T_1)^4$ , $16T_{1071}^{+*}$	$20T_{468}^{+}$ 15360	$[20, 16, 12, 4, 1^{16}]$
$[16, 1^4]$	$(1T_1)^4$ , $16T_{1072}^{+*}$	$20T_{467}^{+}$ 15360	$[20, 16, 12, 4, 1^{16}]$
$[16, 1^4]$	$(1T_1)^4$ , $16T_{1192}^*$	$20T_{519}^{*}$ 20480	$[20, 16, 4^3, 1^{15}]$
$[16, 1^4]$	$(1T_1)^4$ , $16T_{1224}^{+*}$	$20T_{528}^{+*}$ 20480	$[20, 16, 4^3, 1^{15}]$
$[16, 1^4]$	$(1T_1)^4$ , $16T_{1305}^{+*}$	$20T_{561}^{+}$ $30720$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[16, 1^4]$	$(1T_1)^4$ , $16T_{1308}^{+*}$	$20T_{565}^{+}$ $30720$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[16, 1^4]$	$(1T_1)^4$ , $16T_{1320}^{+*}$	$20T_{573}^{+}$ $30720$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[16, 1^4]$	$(1T_1)^4$ , $16T_{1320}^{+*}$	$20T_{567}^{+}$ $30720$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[16, 1^4]$	$(111)$ , $101_{1322}$	$ \begin{array}{rcl} 373 \\ 20T_{567}^{+} & 30720 \\ 20T_{555}^{+} & 30720 \\ 20T_{568}^{+} & 30720 \end{array} $	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
	$ \begin{array}{c} (17)^4, & 1322 \\ (1T_1)^4, & 16T_{1324}^{+*} \\ (1T_1)^4, & 16T_{1325}^{+*} \\ (1T_1)^4, & 16T_{1515}^{+*} \end{array} $	201555 30120	
$[16, 1^4]$	$(1I_1)^4$ , $10I_{1325}$	$20T_{568}^{+}$ $30720$	$[20, 16, 12, 8, 1^{16}]$
$[16, 1^4]$	$(1T_1)^4$ , $16T_{1515}$	$20T_{689}^{+}$ 61440	$[20, 16, 12, 4^2, 1^{15}]$
$[16, 1^4]$	$(1T_1)^4$ , $16T_{1517}^*$	$20T_{677}$ 61440	$[20, 16, 12, 4^2, 1^{15}]$
$[16, 1^4]$	$(1T_1)^4$ , $16T_{1520}^{+*}$	$20T_{673}^{+}$ 61440	$[20, 16, 12, 8, 2, 1^{15}]$
$[16, 1^4]$	$(1T_1)^4$ , $16T_{1536}^*$	$20T_{671}$ 61440	$[20, 16, 12, 8, 2, 1^{15}]$
$[16, 1^4]$	$(1T_1)^4$ , $16T_{1537}^{+*}$	$20T_{664}^{+}$ 61440	$[20, 16, 12, 8, 2, 1^{15}]$
$[16, 1^4]$	$(1T_1)^4$ , $16T_{1538}^{+*}$	$20T_{669}^{+}$ 61440	$[20, 16, 12, 8, 2, 1^{15}]$
$[16, 1^4]$	$(1T_1)^4$ , $16T_{1660}^*$	$20T_{791}$ 122880	$[20, 16, 12, 8, 4, 1^{15}]$
$[16, 1^4]$	$(1T_1)^4$ , $16T_{1664}^{+*}$	$20T_{799}^{+}$ 122880	$[20, 16, 12, 8, 4, 1^{15}]$
$[2^9, 1^2]$	$(1T_1)^2, (2T_1)^9$	$20T_7^*$ 40	$[20, 2, 1^{18}]$
$[2^9, 1^2]$	$(1T_1)^2, (2T_1)^9$	$20T_{10}^{*}$ 40	$[20, 2, 1^{18}]$
$[2^9, 1^2]$	$(1T_1)^2$ , $(2T_1)^9$	$20T_{130}^{*}$ 640	$[20, 2^5, 1^{14}]$
$[2^9, 1^2]$	$(1T_1)^2$ , $(2T_1)^9$	$20T_{139}^*$ 640	$[20, 2^5, 1^{14}]$
$[2^9, 1^2]$	$(1T_1)^2, (2T_1)^9$	$20T_{255}^{+*}$ 2560	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[2^9, 1^2]$	$(1T_1)^2, (2T_1)^9$	$20T_{262}^{+*}$ $2560$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[2^9, 1^2]$	$(1T_1)^2, (2T_1)^9$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[2^9, 1^2]$	$(1T_1)^2, (2T_1)^9$	$20T_{344}^*$ 5120	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[2^9, 1^2]$	$(1T_1)^2, (2T_1)^9$	$20T_{347}^{+*}$ 5120	$[20, 2^8, 1^{11}]$
_	G: Possible Galois Groups, $D(G)$	G): Degrees of factors, $S(G)$ : Galois $G$	Groups of factors, $\mathcal{L}(G)$ : Initial Degrees

D/O			0(0)
D(G)	S(G)	$G \qquad  G $	$\mathcal{L}(G)$
$[2^9, 1^2]$	$(1T_1)^2$ , $(2T_1)^9$	$20T_{350}^*$ 5120	$[20, 2^8, 1^{11}]$
$[2^9, 1^2]$	$(1T_1)^2, (2T_1)^9$	$20T_{409}^*$ $10240$	$[20, 2^9, 1^{10}]$
$[2^9, 1^2]$	$(1T_1)^2, (2T_1)^9$	20T* 10240	$[20, 2^9, 1^{10}]$
$[4^2, 2^5, 1^2]$	$(1T_1)^2$ , $(2T_1)^5$ , $(4T_2^{+*})^2$	$20T_{21}^{*}$ 80	$[20, 2^2, 1^{17}]$
$[4^2, 2^5, 1^2]$	$(1T_1)^2$ , $(2T_1)^5$ , $(4T_2^{+*})^2$	$20T_{22}^{*}$ 80	$[20, 2^2, 1^{17}]$
$[5^2, 2^4, 1^2]$	$(1T_1)^2$ , $(2T_1)^4$ , $(5T_2^{+*})^2$	$20T_{47}^{+*}$ 200	$[20, 5, 2, 1^{17}]$
$[5^2, 2^4, 1^2]$	$(1T_1)^2$ , $(2T_1)^4$ , $(5T_2^{+*})^2$	$20T_{49}^*$ 200	$[20, 5, 2, 1^{17}]$
$[5^2, 2^4, 1^2]$	$(1T_1)^2$ , $(2T_1)^4$ , $(5T_2^{+*})^2$	$20T_{50}^{+*}$ 200	$[20, 5, 2, 1^{17}]$
$[5^2, 2^4, 1^2]$	$(1T_1)^2$ , $(2T_1)^4$ , $(5T_2^{+*})^2$	$20T_{52}^{+*}$ 200	$[20, 5, 2, 1^{17}]$
$[5^2, 2^4, 1^2]$	$(1T_1)^2$ , $(2T_1)^4$ , $(5T_2^{+*})^2$	$20T_{54}^{+*}$ 200	$[20, 5, 2, 1^{17}]$
$[5^2, 2^4, 1^2]$	$(1T_1)^2$ , $(2T_1)^4$ , $(5T_2^{+*})^2$	$20T_{55}^{+*}$ 200	$[20, 5, 2, 1^{17}]$
$[5^2, 2^4, 1^2]$	$(1T_1)^2$ , $(2T_1)^4$ , $(5T_2^{+*})^2$	$20T_{56}^*$ 200	$[20, 5, 2, 1^{17}]$
$[5^2, 2^4, 1^2]$	$(1T_1)^2$ , $(2T_1)^4$ , $(5T_2^{+*})^2$	$20T_{58}^*$ 200	$[20, 5, 2, 1^{17}]$
$[5^2, 2^4, 1^2]$	$(1T_1)^2$ , $(2T_1)^4$ , $(5T_2^{+*})^2$	$20T_{59}^{+*}$ 200	$[20, 5, 2, 1^{17}]$
$[5^2, 2^4, 1^2]$	$(1T_1)^2$ , $(2T_1)^4$ , $(5T_2^{+*})^2$	$\begin{array}{c cccc} 20T_{21}^* & 80 \\ 20T_{22}^* & 80 \\ 20T_{47}^{+*} & 200 \\ 20T_{49}^{+*} & 200 \\ 20T_{50}^{+*} & 200 \\ 20T_{54}^{+*} & 200 \\ 20T_{55}^{+*} & 200 \\ 20T_{55}^{+*} & 200 \\ 20T_{56}^{+*} & 200 \\ 20T_{58}^{+*} & 200 \\ 20T_{58}^{+*} & 200 \\ 20T_{93}^{+*} & 400 \\ 20T_{96}^{+*} & 400 \\ \end{array}$	$[20, 5, 2^2, 1^{16}]$
$[5^2, 2^4, 1^2]$	$(1T_1)^2$ , $(2T_1)^4$ , $(5T_2^{+*})^2$	$20T_{96}^{+*}$ 400	$[20, 5, 2^2, 1^{16}]$
$[5^2, 2^4, 1^2]$	$(1T_1)^2$ , $(2T_1)^4$ , $(5T_2^{+*})^2$	$20T_{100}^{+*}$ 400	$[20, 5, 2^2, 1^{16}]$
$[5^2, 2^4, 1^2]$	$(1T_1)^2$ , $(2T_1)^4$ , $(5T_2^{+*})^2$	$20T_{109}^*$ 400	$[20, 5, 2^2, 1^{16}]$
$[10, 2^4, 1^2]$	$(1T_1)^2$ , $(2T_1)^4$ , $10T_1^*$	$20T_{57}^*$ 200	$[20, 10, 1^{18}]$
$[10, 2^4, 1^2]$	$(1T_1)^2$ , $(2T_1)^4$ , $10T_2^*$	$20T_{60}^*$ 200	$[20, 10, 1^{18}]$
$[10, 2^4, 1^2]$	$(1T_1)^2$ , $(2T_1)^4$ , $10T_3^*$	$20T_{92}^*$ 400	$[20, 10, 2, 1^{17}]$
$[10, 2^4, 1^2]$	$(1T_1)^2$ , $(2T_1)^4$ , $10T_3^*$	$20T_{94}^*$ 400	$[20, 10, 2, 1^{17}]$
$[10, 2^4, 1^2]$	$(1T_1)^2$ , $(2T_1)^4$ , $10T_3^*$	$20T_{*00}^{*}$ 400	$[20, 10, 2, 1^{17}]$
$[10, 2^4, 1^2]$	$(1T_1)^2$ , $(2T_1)^4$ , $10T_3^*$	$20T_{106}^*$ 400	$[20, 10, 2, 1^{17}]$
$[10, 2^4, 1^2]$	$(1T_1)^2$ , $(2T_1)^4$ , $10T_3^*$	$\begin{array}{cccc} 20T_{103}^{*} & 100 \\ 20T_{106}^{*} & 400 \\ 20T_{168}^{*} & 800 \\ 20T_{455}^{*} & 12800 \\ 20T_{534}^{*} & 25600 \\ 20T_{538}^{**} & 25600 \\ 20T_{538}^{**} & 25600 \\ \end{array}$	$[20, 10, 2^2, 1^{16}]$
$[10, 2^4, 1^2]$	$(1T_1)^2$ , $(2T_1)^4$ , $10T_4^*$	$20T_{167}^*$ 800	$[20, 10, 2^2, 1^{16}]$
$[10, 2^4, 1^2]$	$(1T_1)^2$ , $(2T_1)^4$ , $10T_8^{+*}$	$20T_{455}^{+*}$ 12800	$[20, 10, 2^6, 1^{12}]$
$[10, 2^4, 1^2]$	$(1T_1)^2$ , $(2T_1)^4$ , $10T_{14}^*$	$20T_{534}^*$ 25600	$[20, 10, 2^7, 1^{11}]$
$[10, 2^4, 1^2]$	$(1T_1)^2$ , $(2T_1)^4$ , $10T_{14}^*$	$20T_{538}^{+*}$ 25600	$[20, 10, 2^7, 1^{11}]$
$[10, 2^4, 1^2]$	$(1T_1)^2, (2T_1)^4, 10T_{14}^*$	201 <sub>647</sub> 31200	$[20, 10, 2^8, 1^{10}]$
$[4^4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_1^*)^4$	$20T_{18}^*$ 80	$[20, 4, 1^{18}]$
$[4^4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_1^*)^4$	$20T_{19}^*$ 80	$[20, 4, 1^{18}]$
$[4^4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_1^*$ , $(4T_3^*)^3$	$20T_{78}^*$ 320	$[20, 4, 2^2, 1^{16}]$
$[4^4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_1^*$ , $(4T_3^*)^3$	$20T_{239}^{+*}$ 2560	$[20, 4, 2^5, 1^{13}]$
$[4^4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_1^*$ , $(4T_3^*)^3$	$20T_{311}^{+*}$ 5120	$[20, 4^2, 2^4, 1^{13}]$
$[4^4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_2^{+*}$ , $(4T_3^*)^3$	$20T_{83}^{+*}$ 320	$[20, 4, 2^2, 1^{16}]$
$[4^4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_2^{+*}$ , $(4T_3^*)^3$	$20T_{245}^{+*}$ 2560	$[20, 4, 2^5, 1^{13}]$
$[4^4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $4T_2^{+*}$ , $(4T_3^*)^3$	$20T_{303}^*$ 5120	$[20, 4, 2^6, 1^{12}]$
$[4^4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^4$	$20T_{133}^*$ 640	$[20, 4, 2^3, 1^{15}]$
$[4^4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^4$	$20T_{134}^{+*}$ 640	$[20, 4, 2^3, 1^{15}]$
$[4^4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^4$	$20T_{138}^*$ 640	$[20, 2^5, 1^{14}]$
$[4^4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^4$	$20T_{142}^{*}$ 640	$[20, 2^5, 1^{14}]$
$[4^4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^4$	$20T_{187}^*$ 1280	$[20, 4, 2^4, 1^{14}]$
$[4^4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^4$	$20T_{188}^{+*}$ 1280	$[20, 4, 2^4, 1^{14}]$
$[4^4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^4$	$20T_{191}^*$ 1280	$[20, 4, 2^4, 1^{14}]$
		-	alois Groups of factors, $\mathcal{L}(G)$ : Initial Degrees

Splitting table of degree 20

D(G)	S(G)	G   G	$\mathcal{L}(G)$
$[4^4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^4$	$20T_{192}^*$ 1280	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3)^4$	$20T_{192}^{+*}$ $2560$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(1T_3)^4$	$20T_{251}^*$ 2560	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(1T_3)^4$	$20T_{253}^{+*}$ 2560	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(1T_3)^4$	$\begin{array}{ccc} 20T_{253}^{+*} & 2560 \\ 20T_{254}^{+*} & 2560 \end{array}$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3)^4$	$20T_{254}^*$ 2560	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3)^4$	$ \begin{array}{ccc} 20T_{256}^{**} & 2560 \\ 20T_{257}^{+*} & 2560 \end{array} $	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3)^4$	$20T_{259}^*$ 2560	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3)^4$	$\begin{array}{ccc} 20T_{259}^{**} & 2560 \\ 20T_{304}^{+*} & 5120 \end{array}$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3)^4$	$20T_{308}^*$ 5120	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3)^4$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3)^4$	$\begin{array}{ccc} 20T_{310}^{+*} & 5120 \\ 20T_{314}^{+*} & 5120 \end{array}$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3)^4$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3)^4$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3)^4$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3)^4$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3)^4$	$20T_{326}^*$ 5120	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3)^4$	$ \begin{array}{ccc} 320 \\ 20T_{326}^{*} & 5120 \\ 20T_{328}^{+*} & 5120 \end{array} $	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3)^4$	$20T_{329}^*$ 5120	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3)^4$	$\begin{array}{ccc} 20T_{329}^* & 5120 \\ 20T_{331}^{+*} & 5120 \end{array}$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3)^4$	$20T_{333}^*$ 5120	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3)^4$	$20T_{336}^*$ 5120	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(1T_3)^4$	$20T_{337}^*$ 5120	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(1T_3)^4$	$20T_{343}^{+*}$ 5120	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(1T_3)^4$	$20T_{345}^*$ 5120	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^4$	$20T_{353}^*$ 5120	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^4$	$20T_{407}^*$ $10240$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^4$	$20T_{410}^*$ $10240$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^4$	$20T_{415}^*$ $10240$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^4$	$20T_{421}^*$ 10240	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^4$	$20T_{426}^*$ $10240$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[4^4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^4$	$\begin{array}{cccc} 20T_{426}^* & 10240 \\ 20T_{427}^* & 10240 \\ 20T_{428}^* & 10240 \\ 20T_{429}^{+*} & 10240 \end{array}$	$[20, 4^4, 2, 1^{14}]$
$[4^4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^4$	$20T_{428}^*$ 10240	$[20, 4, 2^7, 1^{11}]$
$[4^4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^4$	$20T_{420}^{+*}$ 10240	$[20, 4, 2^7, 1^{11}]$
$[4^4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^4$	$20T_{430}^{+*}$ 10240	$[20, 4, 2^7, 1^{11}]$
$[4^4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^4$	$20T_{432}^{*}$ 10240	$[20, 4^4, 2, 1^{14}]$
$[4^4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^4$	$20T_{433}^*$ 10240	$[20, 4^2, 2^5, 1^{12}]$
$[4^4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^4$	$20T_{440}^{*}$ 10240	$[20, 4, 2^7, 1^{11}]$
$[4^4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^4$	$20T_{513}^{*}$ 20480	$[20, 4, 2^8, 1^{10}]$
$[4^4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^4$	$20T_{525}^{*}$ 20480	$[20, 4, 2^8, 1^{10}]$
$[4^4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^4$	$20T_{631}^{+*}$ 40960	$[20, 4^3, 2^5, 1^{11}]$
$[4^4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^4$	$20T_{747}^*$ 81920	$[20, 4^4, 2^4, 1^{11}]$
$[4^4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^4$	$20T_{749}^{*}$ 81920	$[20, 4^3, 2^6, 1^{10}]$
$[4^4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^4$	$20T_{751}^{+*}$ 81920	$[20, 4^4, 2^4, 1^{11}]$
$[4^4, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^4$	$20T_{846}^*$ $163840$	$[20, 4^4, 2^5, 1^{10}]$
	G: Possible Galois Groups, $D(G)$ : D		

D(0)			1.01	0(0)
D(G)	S(G)	G	G	$\mathcal{L}(G)$
$[8, 4^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_1^*)^2$ , $8T_2^{+*}$	$20T_{42}^*$	160	$[20, 4, 2, 1^{17}]$
$[8, 4^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^2$ , $8T_4^{+*}$	$20T_{38}^*$	160	$[20, 8, 1^{18}]$
$[8, 4^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^2$ , $8T_9^{+*}$	$20T_{87}^*$	320	$[20, 8, 2, 1^{17}]$
$[8, 4^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_3^*)^2$ , $8T_{10}^{+*}$	$20T_{82}^*$	320	$[20, 4, 2^2, 1^{16}]$
$[8, 4^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_4^{+*})^2$ , $8T_{13}^{+*}$	$20T_{116}$	480	$[20, 4, 3, 2, 1^{16}]$
$[8, 4^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_4^{+*})^2$ , $8T_{13}^{+*}$	$20T_{119}$	480	$[20, 4, 3, 2, 1^{16}]$
$[8, 4^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_5^*)^2$ , $8T_{14}^{+*}$	$20T_{118}$	480	$[20, 8, 3, 1^{17}]$
$[8, 4^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_5^*)^2$ , $8T_{14}^{+*}$	$20T_{120}$	480	$[20, 8, 3, 1^{17}]$
$[8, 4^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(4T_5^*)^2$ , $8T_{24}^{+*}$	$20T_{174}$	960	$[20, 4, 3, 2^2, 1^{15}]$
$[8^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $8T_0^{+*}$ , $8T_{10}^{+*}$	$20T^*_{136}$	640	$[20, 8, 4, 1^{17}]$
$[8^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $8T_{16}^*$ , $8T_{27}^*$	$20T_{136}^{+*}$ $20T_{420}^{+*}$ $20T_{244}^{-*}$ $20T_{258}^{-*}$ $20T_{319}^{*}$	10240	$[20, 8, 2^6, 1^{12}]$
$[8^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(8T_{17}^*)^2$	$20T_{244}^*$	2560	$[20, 4^3, 2, 1^{15}]$
$[8^2, 2, 1^2]$	$\begin{array}{cccc} (1T_1)^2, \ 2T_1, \ (8T_{17}^*)^2 \\ (1T_1)^2, \ 2T_1, \ (8T_{17}^*)^2 \end{array}$	$20T_{259}^{+*}$	2560	$[20, 4^3, 2, 1^{15}]$
$[8^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(8T_{17}^*)^2$	$20T_{210}^*$	5120	$[20, 4^3, 2^2, 1^{14}]$
$[8^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(8T_{17}^*)^2$	$20T_{327}^{+*}$	5120	$[20, 4^3, 2^2, 1^{14}]$
$[8^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(8T_{17}^*)^2$	$20T_{424}^*$	10240	$[20, 4^4, 2, 1^{14}]$
$[8^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(8T_{18}^{+*})^2$	$20T_{243}^*$	2560	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
$[8^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(8T_{18}^{+*})^2$	$20T_{307}^*$	5120	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
$[8^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(8T_{18}^{+*})^2$	$20T_{334}^*$	5120	$     \begin{bmatrix}     20, 4^3, 2^2, 1^{14}     \end{bmatrix}   $
$[8^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(8T_{18}^{+*})^2$	$20T_{408}^*$	10240	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
$[8^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(8T_{18})$ $(1T_1)^2$ , $2T_1$ , $8T_{20}^{+*}$ , $8T_{27}^*$	$20T_{408}^{+*}$ $20T_{416}^{+*}$	10240	$     \begin{bmatrix}     20, & 4, & 2, & 1 \\     \hline     [20, & 8, & 2^6, & 1^{12}]     \end{bmatrix}   $
$[8^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $6T_{20}^*$ , $6T_{27}^*$ $(1T_1)^2$ , $2T_1$ , $(8T_{26}^*)^2$	$207_{416}$	5120	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[8^2, 2, 1^2]$	$(111)$ , $211$ , $(01_{26})$ $(1T_c)^2$ $2T_c$ $(8T^*)^2$	$201_{302}$ $20T^*$	5120	$[20, 8, 4^2, 2, 1^{15}]$
$[8^2, 2, 1^2]$	$ \begin{array}{c} (17)^2, \ 2T_1, \ (8T_{26}^*)^2 \\ (1T_1)^2, \ 2T_1, \ (8T_{26}^*)^2 \\ (1T_1)^2, \ 2T_1, \ (8T_{26}^*)^2 \\ (1T_1)^2, \ 2T_1, \ (8T_{26}^*)^2 \\ \end{array} $	$ \begin{array}{c} 416 \\ 20T_{302}^{+*} \\ 20T_{339}^{*} \\ 20T_{346}^{+*} \\ 20T_{356}^{*} \end{array} $	5120	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
$[8^2, 2, 1^2]$	$(111)$ , $211$ , $(01_{26})$	201 <sub>346</sub>	5120	$ \begin{bmatrix} 20, 8, 4^2, 2, 1^{15} \\ 20, 8, 4^2, 2, 1^{15} \end{bmatrix} $
	$(111)$ , $211$ , $(01_{26})$	201 <sub>356</sub>	10240	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[8^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(8T_{26}^*)^2$	$20T^*_{425}$	10240	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[8^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(8T_{26}^*)^2$	$20T_{431}^*$		
$[8^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(8T_{26}^*)^2$	$20T^*_{446}$	10240	$[20, 8, 4^2, 2^2, 1^{14}]$
$[8^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(8T_{26}^*)^2$	$20T_{451}^{+*}$	10240	$[20, 8, 4^2, 2^2, 1^{14}]$
$[8^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(8T_{26}^*)^2$	$20T_{521}^*$	20480	$[20, 8, 4^3, 2, 1^{14}]$
$[8^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $8T_{26}^*$ , $8T_{29}^{+*}$	$20T_{241}^{+*}$	2560	$[20, 8, 2^4, 1^{14}]$
$[8^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $8T_{26}^*$ , $8T_{29}^{+*}$	$20T_{242}^{+*}$	2560	$[20, 8, 2^4, 1^{14}]$
$[8^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $8T_{26}^*$ , $8T_{29}^{+*}$	$20T_{248}^*$	2560	$[20, 8, 2^4, 1^{14}]$
$[8^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $8T_{26}^*$ , $8T_{29}^{+*}$	$20T_{324}^{+*}$	5120	$[20, 8, 2^5, 1^{13}]$
$[8^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $8T_{26}^*$ , $8T_{29}^{+*}$	$20T^*_{325}$	5120	$[20, 8, 2^5, 1^{13}]$
$[8^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $8T_{26}^*$ , $8T_{29}^{+*}$	$20T_{349}^*$	5120	$[20, 8, 4, 2^3, 1^{14}]$
$[8^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $8T_{26}^*$ , $8T_{29}^{+*}$	$20T^*_{352}$	5120	$[20, 8, 4, 2^3, 1^{14}]$
$[8^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $8T_{26}^*$ , $8T_{29}^{+*}$	$20T_{442}^*$	10240	$[20, 8, 4, 2^4, 1^{13}]$
$[8^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(8T_{27}^*)^2$	$20T_{189}^*$	1280	$[20, 4, 2^4, 1^{14}]$
$[8^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(8T_{27}^*)^2$	$20T_{195}^*$	1280	$[20, 4, 2^4, 1^{14}]$
$[8^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(8T_{27}^*)^2$	$20T_{261}^*$	2560	$[20, 8, 2^4, 1^{14}]$
$[8^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(8T_{27}^*)^2$	$20T_{511}^{+*}$	20480	$[20, 8, 2^7, 1^{11}]$
$[8^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(8T_{27}^*)^2$	$20T_{514}^*$	20480	$[20, 8, 2^7, 1^{11}]$
$[8^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(8T_{27}^*)^2$	$20T_{524}^*$	20480	$[20, 8, 2^7, 1^{11}]$
$[8^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(8T_{27}^*)^2$	$20T_{529}^*$	20480	$[20, 8, 2^7, 1^{11}]$
	G: Possible Galois Groups, $D(G)$ : Deg		rs, $S(G)$ : Galois Group	s of factors, $\mathcal{L}(G)$ : Initial Degrees

Splitting table of degree 20

D(G)	S(G)	G $G$	$\mathcal{L}(G)$
$[8^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(8T_{27}^*)^2$	$20T_{633}^*$ $4096$	
$[8^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $8T_{28}^*$ , $8T_{30}^*$	$20T_{252}^{+*}$ 2560	
$[8^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $8T_{28}^*$ , $8T_{30}^*$	$20T_{320}^*$ 5120	
$[8^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $8T_{28}^*$ , $8T_{30}^*$	$20T_{354}^{+*}$ 5120	
$[8^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $8T_{28}^*$ , $8T_{30}^*$	$20T_{450}^*$ $1024$	
$[8^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(8T_{29}^{+*})^2$	$20T_{355}^*$ 5120	
$[8^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(8T_{29}^{+*})^2$	$20T_{357}^*$ 5120	
$[8^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(8T_{29}^{+*})^2$	$20T_{404}^*$ $1024$	
$[8^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(8T_{29}^{+*})^2$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$[8^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(8T_{29}^{+*})^2$	$20T_{439}^*$ $1024$	
$[8^2, 2, 1^2]$	$(1T_1)^7$ , $2T_1$ , $(8T_{29}^{+*})^2$	$20T_{439}^*$ $1024$	
$[8^2, 2, 1^2]$	$(1T_1)^7$ , $2T_1$ , $(8T_{29}^{+*})^2$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$[8^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(8T_{29})^2$ $(1T_1)^2$ , $2T_1$ , $8T_{32}^{+*}$ , $8T_{38}^*$	$20T_{566}^{+}$ $3072$	
$[8^2, 2, 1^2]$	$(111)$ , $211$ , $31_{32}$ , $31_{38}$	$20T_{566}^{+}$ $3072$ $20T_{569}^{+}$ $3072$	
$[8^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $8T_{32}^{+*}$ , $8T_{38}^*$	201 <sub>569</sub> 3012	
	$(1T_1)^2$ , $2T_1$ , $(8T_{35}^*)^2$	$20T_{301}^{+*}$ 5120	[20, 0, 4, 2 <sup>3</sup> , 1 <sup>-1</sup> ]
$[8^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(8T_{35}^*)^2$	$\begin{array}{c cccc} \hline 20T^{+}_{569} & 3072 \\ \hline 20T^{+*}_{301} & 5120 \\ \hline 20T^{+*}_{342} & 5120 \\ \hline 20T^{*}_{413} & 1024 \\ \hline \end{array}$	$[20, 8, 4, 2^3, 1^{14}]$
$[8^2, 2, 1^2]$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$20T_{413}^*$ $1024$	
$[8^2, 2, 1^2]$	$(1I_1)^2, 2I_1, (8I_{35})^2$	$20T_{414}^*$ $1024$	
$[8^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(8T_{35}^*)^2$	$20T_{436}^{+*}$ 1024	
$[8^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(8T_{35}^*)^2$	$20T_{438}^{+*}$ $1024$	
$[8^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(8T_{35}^*)^2$	$20T_{527}^*$ 2048	
$[8^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(8T_{35}^*)^2$	$20T_{745}^*$ 8192	
$[8^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(8T_{35}^*)^2$	$20T_{746}^{+*}$ 8192	
$[8^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(8T_{35}^*)^2$	$20T_{748}^{+*}$ 8192	
$[8^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(8T_{35}^*)^2$	$20T^*_{750}$ 8192	
$[8^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(8T_{35}^*)^2$	$20T_{844}^*$ 1638	
$[8^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(8T_{35}^*)^2$	$20T_{845}^*$ 1638	
$[8^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(8T_{35}^*)^2$	$\begin{array}{c cccc} 20T_{844}^* & 1638 \\ \hline 20T_{845}^* & 1638 \\ \hline 20T_{848}^* & 1638 \\ \hline 20T_{849}^* & 1638 \\ \hline 20T_{852}^* & 1638 \\ \hline 20T_{852}^* & 1638 \\ \hline 20T_{853}^{+*} & 1638 \\ \hline 20T_{853}^{+*} & 1638 \\ \hline \end{array}$	
$[8^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(8T_{35}^*)^2$	$20T_{849}^*$ 1638	
$[8^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(8T_{35}^*)^2$	$20T_{852}^*$ 1638	
$[8^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(8T_{35}^*)^2$	$20T_{853}^{+*}$ 1638	
$[8^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(8T_{35}^*)^2$	201905 3210	
$[8^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(8T_{38}^*)^2$	$20T_{366}$ $7680$	
$[8^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(8T_{38}^*)^2$	$20T_{373}$ $7680$	
$[8^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(8T_{38}^*)^2$	$20T_{663}^{+}$ 6144	
$[8^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(8T_{38}^*)^2$	$20T_{666}^{+}$ 6144	
$[8^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(8T_{38}^*)^2$	$20T_{672}$ 6144	
$[8^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(8T_{38}^*)^2$	$20T_{694}$ 6144	
$[8^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(8T_{38}^*)^2$	$20T_{798}$ 1228	
$[8^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(8T_{38}^*)^2$	$20T_{803}$ 1228	
$[8^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $8T_{39}^{+*}$ , $8T_{44}^*$	$20T_{667}^{+}$ 6144	
$[8^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $8T_{40}^*$ , $8T_{44}^*$	$20T_{681}^{+}$ 6144	
$[8^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(8T_{44}^*)^2$	$20T_{370}$ 7680	
$[8^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(8T_{44}^*)^2$	$20T_{375}$ $7680$	
$[8^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(8T_{44}^*)^2$	$20T_{466}$ 1536	$0 \qquad [20, 8, 6, 4, 2^2, 1^{14}]$

D(C)	C(G)		C(C)			
D(G) [8 <sup>2</sup> , 2, 1 <sup>2</sup> ]	S(G)	$G \qquad  G $	$\mathcal{L}(G)$			
	$(1T_1)^2$ , $2T_1$ , $(8T_{44}^*)^2$	$20T_{794}^{+}$ 122880	$[20, 8, 6, 4, 2^5, 1^{11}]$			
$[8^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(8T_{44}^*)^2$	$20T_{796}$ $122880$	$[20, 8, 6, 4, 2^5, 1^{11}]$			
$[8^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(8T_{44}^*)^2$	$20T_{797}$ 122880	$[20, 8, 6, 4, 2^5, 1^{11}]$			
$[8^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(8T_{44}^*)^2$	$20T_{802}$ $122880$	$[20, 8, 6, 4, 2^5, 1^{11}]$			
$[8^2, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $(8T_{44}^{+*})^2$ $(1T_1)^2$ , $2T_1$ , $16T_6^{+*}$	$20T_{887}$ $245760$	$[20, 8, 6, 4, 2^6, 1^{10}]$			
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $10T_6$	20T** 320	$[20, 16, 1^{18}]$			
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{10}^{+*}$	20T** 320	$[20, 16, 1^{18}]$			
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{41}^{+*}$	$20T_{132}^*$ 640	$[20, 16, 2, 1^{17}]$			
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{52}^{+*}$	$20T_{129}^*$ 640	$[20, 16, 2, 1^{17}]$			
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{159}^{+*}$	$20T_{194}^*$ 1280	$[20, 16, 4, 1^{17}]$			
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{485}^{+*}$	$20T_{338}^*$ 5120	$[20, 8, 4^2, 2, 1^{15}]$			
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{502}^{+*}$	$20T_{317}^*$ 5120	$[20, 8, 4^2, 2, 1^{15}]$			
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{521}^{+*}$	$20T_{309}^*$ 5120	$[20, 8, 4^2, 2, 1^{15}]$			
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{578}^*$	$20T_{312}^{+*}$ 5120	$[20, 8, 4^2, 2, 1^{15}]$			
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{852}^{+*}$	$20T_{437}^*$ 10240	$[20, 16, 4^2, 2, 1^{15}]$			
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{863}^{+*}$	$20T_{435}^*$ 10240	$[20, 16, 4^2, 2, 1^{15}]$			
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{864}^{+*}$	$20T_{417}^*$ 10240	$[20, 16, 4^2, 2, 1^{15}]$			
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{888}^*$	$ \begin{array}{c cccc} 20T_{417}^* & 10240 \\ 20T_{448}^{+*} & 10240 \end{array} $	$[20, 8, 4^2, 2^2, 1^{14}]$			
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{898}^{+*}$	$20T_{447}^*$ 10240	$[20, 8, 4^2, 2^2, 1^{14}]$			
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{911}^{+*}$	$20T_{444}^*$ 10240	$[20, 8, 4^2, 2^2, 1^{14}]$			
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{925}^{+*}$	$20T_{449}^*$ 10240	$[20, 8, 4^2, 2^2, 1^{14}]$			
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{939}^{+*}$	$20T_{441}^*$ 10240	$[20, 16, 4^2, 2, 1^{15}]$			
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{1004}^*$	$20T_{411}^{+*}$ 10240	$[20, 16, 4^2, 2, 1^{15}]$			
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{1018}^*$	$20T_{419}^{+*}$ 10240	$[20, 16, 4^2, 2, 1^{15}]$			
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{1090}^{+*}$	$20T_{516}^*$ 20480	$[20, 16, 4^2, 2^2, 1^{14}]$			
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{1096}^{+*}$	$20T_{515}^*$ 20480	$[20, 16, 4^2, 2^2, 1^{14}]$			
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{1156}^*$	$20T_{520}^*$ 20480	$[20, 16, 4^2, 2^2, 1^{14}]$			
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{1164}^{+*}$	$20T_{510}^*$ 20480	$[20, 16, 4^2, 2^2, 1^{14}]$			
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{1164}^{+*}$	$20T_{523}^*$ 20480	$[20, 16, 4^2, 2^2, 1^{14}]$			
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{1186}^*$	$20T_{512}^*$ 20480	$[20, 16, 4^2, 2^2, 1^{14}]$			
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{1186}^*$	$20T_{518}^{+*}$ 20480	$[20, 16, 4^2, 2^2, 1^{14}]$			
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{1192}^*$	$20T_{517}^*$ 20480	$[20, 8, 4^3, 2, 1^{14}]$			
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{1224}^{+*}$	$20T_{526}^*$ 20480	$[20, 8, 4^3, 2, 1^{14}]$			
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{1237}^{+*}$	$20T_{530}^*$ 20480	$[20, 16, 4^2, 2^2, 1^{14}]$			
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{1302}^*$	$20T_{556}^{+}$ 30720	$[20, 16, 12, 4, 2, 1^{15}]$			
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{1303}^{+*}$	$20T_{562}$ $30720$	$[20, 16, 12, 4, 2, 1^{15}]$			
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{1306}^{+*}$	$20T_{558}$ $30720$	$[20, 16, 12, 4, 2, 1^{15}]$			
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{1319}^{+*}$	$20T_{560}$ $30720$	$[20, 16, 12, 4, 2, 1^{15}]$			
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{1323}^{+*}$	$20T_{564}$ $30720$	$[20, 16, 12, 4, 2, 1^{15}]$			
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{1326}^*$	$20T_{571}^{+}$ 30720	$[20, 16, 12, 4, 2, 1^{15}]$			
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{1385}^{+*}$	$20T_{632}^*$ 40960	$[20, 16, 4^3, 2, 1^{14}]$			
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{1388}^*$	$20T_{634}^*$ 40960	$[20, 16, 4^3, 2, 1^{14}]$			
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{1510}^{+*}$	$20T_{680}$ 61440	$[20, 16, 12, 4, 2^2, 1^{14}]$			
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{1511}^{+*}$	$20T_{686}$ $61440$	$[20, 16, 12, 4, 2^2, 1^{14}]$			
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{1513}^{+*}$	$20T_{690}$ $61440$	$[20, 16, 12, 4, 2^2, 1^{14}]$			
	$G$ : Possible Galois Groups, $D(G)$ : Degrees of factors, $S(G)$ : Galois Groups of factors, $\mathcal{L}(G)$ : Initial Degrees					
$\Rightarrow$						

Splitting table of degree 20

D(G)	S(G)	G   G	$\mathcal{L}(G)$
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{1518}^*$	$20T_{685}^{+}$ 61440	$[20, 16, 12, 4, 2^2, 1^{14}]$
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{1518}^*$ $(1T_1)^2$ , $2T_1$ , $16T_{1524}^*$	$20T_{687}^{+}$ 61440	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{1524}^*$ $(1T_1)^2$ , $2T_1$ , $16T_{1527}^*$	$20T_{679}^{+}$ 61440	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{1527}^{+*}$ $(1T_1)^2$ , $2T_1$ , $16T_{1528}^{+*}$	$20T_{688}$ 61440	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{1530}^{+2}$	$20T_{668}$ 61440	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{1530}^{+*}$ $(1T_1)^2$ , $2T_1$ , $16T_{1532}^{+*}$	$20T_{675}$ 61440	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{1532}^{+*}$ $(1T_1)^2$ , $2T_1$ , $16T_{1533}^{+*}$	$20T_{692}$ 61440	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{1533}^{+33}$ $(1T_1)^2$ , $2T_1$ , $16T_{1535}^{+*}$	$20T_{691}$ 61440	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{1535}^{+*}$ $(1T_1)^2$ , $2T_1$ , $16T_{1539}^{+*}$	$20T_{684}$ 61440	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{1539}^*$ $(1T_1)^2$ , $2T_1$ , $16T_{1540}^*$	$20T_{682}^{+}$ 61440	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{1540}^{+*}$ $(1T_1)^2$ , $2T_1$ , $16T_{1541}^{+*}$	$20T_{665}$ 61440	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{1541}^{+*}$ $(1T_1)^2$ , $2T_1$ , $16T_{1656}^{+*}$	$20T_{805}$ $122880$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{1656}^*$ $(1T_1)^2$ , $2T_1$ , $16T_{1657}^*$	$20T_{812}$ $122880$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{1659}^{+*}$	$20T_{804}$ 122880	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{1661}^{+*}$	$20T_{790}$ 122880	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{1661}^{+*}$ $(1T_1)^2$ , $2T_1$ , $16T_{1663}^{+*}$	$20T_{807}$ 122880	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{1666}^*$	$20T_{810}^{+}$ 122880	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{1666}^*$ $(1T_1)^2$ , $2T_1$ , $16T_{1674}^*$	$20T_{793}$ 122880	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{1677}^{+*}$	$20T_{792}$ 122880	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{1678}^*$	$20T_{801}$ 122880	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{1679}^*$	$20T_{806}$ 122880	$[20, 16, 12, 4^2, 2, 1^{14}]$
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{1682}^{+*}$	$20T_{800}$ 122880	$[20, 16, 12, 8, 2^2, 1^{14}]$
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{1683}^{+*}$	$20T_{795}$ 122880	$[20, 16, 12, 4^2, 2, 1^{14}]$
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{1723}^*$	$20T_{847}^*$ 163840	$[20, 16, 4^2, 2^5, 1^{11}]$
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{1723}^*$	$20T_{854}^{+*}$ 163840	$[20, 16, 4^2, 2^5, 1^{11}]$
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{1723}^*$	$20T_{910}^*$ 327680	$[20, 16, 4^2, 2^6, 1^{10}]$
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{1726}^*$	$20T_{850}^{+*}$ 163840	$[20, 16, 4^2, 2^5, 1^{11}]$
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{1726}^*$	$20T_{851}^*$ 163840	$[20, 16, 4^2, 2^5, 1^{11}]$
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{1726}^*$	$20T_{908}^*$ 327680	$[20, 16, 4^2, 2^6, 1^{10}]$
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{1757}^{+*}$	$20T_{886}$ $245760$	$[20, 16, 12, 8, 4, 2, 1^{14}]$
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{1758}^*$	$20T_{885}$ $245760$	$[20, 16, 12, 8, 4, 2, 1^{14}]$
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{1771}^*$	$20T_{906}^*$ 327680	$[20, 16, 4^3, 2^4, 1^{11}]$
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{1771}^*$	$20T_{907}^*$ 327680	$[20, 16, 4^3, 2^4, 1^{11}]$
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{1771}^*$	$20T_{909}^*$ 327680	$[20, 16, 4^3, 2^4, 1^{11}]$
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{1771}^*$	$20T_{911}^{+*}$ 327680	$[20, 16, 4^3, 2^4, 1^{11}]$
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{1771}^*$	$20T_{946}^*$ 655360	$[20, 16, 4^3, 2^5, 1^{10}]$
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{1810}^*$	$20T_{933}^{+}$ 491520	$[20, 16, 12, 4, 2^5, 1^{11}]$
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{1810}^*$	$20T_{968}$ 983040	$[20, 16, 12, 4, 2^6, 1^{10}]$
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{1845}^*$	$20T_{963}^{+}$ 983040	$[20, 16, 12, 4^2, 2^4, 1^{11}]$
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{1845}^*$	$20T_{967}$ 983040	$[20, 16, 12, 4^2, 2^4, 1^{11}]$
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{1845}^*$	$20T_{995}$ 1966080	$[20, 16, 12, 4^2, 2^5, 1^{10}]$
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{1848}^*$	$20T_{964}^{+}$ 983040	$[20, 16, 12, 8, 2^5, 1^{11}]$
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{1848}^*$	$20T_{965}$ $983040$	$[20, 16, 12, 8, 2^5, 1^{11}]$
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{1848}^*$	$20T_{992}$ 1966080	$[20, 16, 12, 8, 2^6, 1^{10}]$
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{1849}^*$	$20T_{962}^{+}$ 983040	$[20, 16, 12, 8, 2^5, 1^{11}]$
	G: Possible Galois Groups, $D(G)$ :	Degrees of factors, $S(G)$ : Galois 0	Groups of factors, $\mathcal{L}(G)$ : Initial Degrees

D(G)	S(G)	G	G	$\mathcal{L}(G)$
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $16T_{1849}^*$	$20T_{966}$	983040	$[20, 16, 12, 8, 2^5, 1^{11}]$
$[16, 2, 1^2]$	$(1T_1)^7$ , $2T_1$ , $10T_{1849}$ $(1T_1)^2$ , $2T_1$ , $16T_{1849}^*$	$20T_{991}$	1966080	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[16, 2, 1^2]$	$(1T_1)^7$ , $2T_1$ , $10T_{1849}$ $(1T_1)^2$ , $2T_1$ , $16T_{1879}^*$	$20T_{989}$	1966080	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[16, 2, 1^2]$	$(1T_1)^7$ , $2T_1$ , $10T_{1879}$ $(1T_1)^2$ , $2T_1$ , $16T_{1879}^*$	$20T_{990}$	1966080	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[16, 2, 1^2]$	$(1T_1)^7$ , $2T_1$ , $10T_{1879}$ $(1T_1)^2$ , $2T_1$ , $16T_{1879}^*$	$20T_{993}$	1966080	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[16, 2, 1^2]$	$(1T_1)^2$ , $2T_1$ , $10T_{1879}$ $(1T_1)^2$ , $2T_1$ , $16T_{1879}^*$	$20T_{994}^{+}$	1966080	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
[16, 2, 1]	$(1T_1)^2$ , $2T_1$ , $10T_{1879}$ $(1T_1)^2$ , $2T_1$ , $16T_{1879}^*$	$20T_{994}$ $20T_{1015}$	3932160	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[3^6, 1^2]$	$(1T_1)^2$ , $(3T_1^{+*})^6$	$20T_{15}^{+}$	60	[20, 3, 1 <sup>18</sup> ]
$[6, 3^4, 1^2]$	$(1T_1)^2$ , $(3T_1)^4$ , $6T_2^*$	$20T_{15}$ $20T_{30}$	120	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[6^2, 3^2, 1^2]$	$(1T_1)^2$ , $(3T_2)^2$ , $(6T_2^*)^2$	20130	120	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[6^2, 3^2, 1^2]$	$(1T_1)^2$ , $(3T_2)^2$ , $(6T_2)^2$	$20T_{31}^{+}$	120	$ \begin{array}{c c} [20, 6, 1] \\ [20, 6, 1^{18}] \end{array} $
$[6^2, 3^2, 1^2]$	$(1T_1)^2$ , $(3T_2)^2$ , $(6T_2)^2$ $(1T_1)^2$ , $(3T_2^*)^2$ , $(6T_2^*)^2$	$20T_{32}^{+}$	120	$ \begin{array}{c c}                                    $
$\begin{bmatrix} 6^2, 3^2, 1^2 \end{bmatrix}$		$20T_{36}^{+}$		
	$(1T_1)^2$ , $(3T_2^*)^2$ , $(6T_3^*)^2$	$20T_{62}^{+}  20T_{90}^{+*}$	240	$[20, 6, 2, 1^{17}]$
$[5^2, 4^2, 1^2]$	$(1T_1)^2$ , $(4T_1^*)^2$ , $(5T_3^*)^2$	20190	400	$[20, 5, 4, 1^{17}]$
$[5^2, 4^2, 1^2]$	$(1T_1)^2$ , $(4T_1^*)^2$ , $(5T_3^*)^2$	20191	400	$[20, 5, 4, 1^{17}]$
$[5^2, 4^2, 1^2]$	$(1T_1)^2$ , $(4T_1^*)^2$ , $(5T_3^*)^2$	20197	400	$[20, 5, 4, 1^{17}]$
$[5^2, 4^2, 1^2]$	$(1T_1)^2$ , $(4T_1^*)^2$ , $(5T_3^*)^2$	20198	400	$[20, 5, 4, 1^{17}]$
$[5^2, 4^2, 1^2]$	$(1T_1)^2$ , $(4T_1^*)^2$ , $(5T_3^*)^2$	$\begin{array}{c} 20T_{90} \\ 20T_{91}^* \\ 20T_{97}^{+*} \\ 20T_{98}^{+*} \\ 20T_{99}^{+*} \\ 20T_{104}^{**} \end{array}$	400	$[20, 5, 4, 1^{17}]$
$[5^2, 4^2, 1^2]$	$(1T_1)^2$ , $(4T_1^*)^2$ , $(5T_3^*)^2$	207*	400	$[20, 5, 4, 1^{17}]$
$[5^2, 4^2, 1^2]$	$(1T_1)^2$ , $(4T_1^*)^2$ , $(5T_3^*)^2$	$20T_{105}^{*}  20T_{110}^{+*}$	400	$[20, 5, 4, 1^{17}]$
$[5^2, 4^2, 1^2]$	$(1T_1)^2, (4T_1^*)^2, (5T_3^*)^2$	$20T_{110}^{+\pi}$	400	$[20, 5, 4, 1^{17}]$
$[5^2, 4^2, 1^2]$	$(1T_1)^2$ , $(4T_1^*)^2$ , $(5T_3^*)^2$	$20T^*_{111}$	400	$[20, 5, 4, 1^{17}]$
$[5^2, 4^2, 1^2]$	$(1T_1)^2$ , $(4T_1^*)^2$ , $(5T_3^*)^2$	$20T^*_{113}$	400	$[20, 5, 4, 1^{17}]$
$[5^2, 4^2, 1^2]$	$(1T_1)^2$ , $(4T_1^*)^2$ , $(5T_3^*)^2$	$20T_{114}^{+*}$	400	$[20, 5, 4, 1^{17}]$
$[5^2, 4^2, 1^2]$	$(1T_1)^2$ , $(4T_1^*)^2$ , $(5T_3^*)^2$	$20T_{115}^{+*}  20T_{154}^{+*}$	400	$[20, 5, 4, 1^{17}]$
$[5^2, 4^2, 1^2]$	$(1T_1)^2$ , $(4T_1^*)^2$ , $(5T_3^*)^2$	$20T_{154}^{+*}$	800	$[20, 5, 4, 2, 1^{16}]$
$[5^2, 4^2, 1^2]$	$(1T_1)^2$ , $(4T_1^*)^2$ , $(5T_3^*)^2$	$20T_{161}^{+*}$	800	$[20, 5, 4, 2, 1^{16}]$
$[5^2, 4^2, 1^2]$	$(1T_1)^2$ , $(4T_1^*)^2$ , $(5T_3^*)^2$	$20T_{162}^{+*}$	800	$[20, 5, 4, 2, 1^{16}]$
$[5^2, 4^2, 1^2]$	$(1T_1)^2$ , $(4T_1^*)^2$ , $(5T_3^*)^2$	$20T_{164}^*$	800	$[20, 5, 4, 2, 1^{16}]$
$[5^2, 4^2, 1^2]$	$(1T_1)^2$ , $(4T_1^*)^2$ , $(5T_3^*)^2$	$ \begin{array}{c} 101 \\ 20T_{162}^{+*} \\ 20T_{164}^{*} \\ 20T_{165}^{*} \end{array} $	800	$[20, 5, 4, 2, 1^{16}]$
$[5^2, 4^2, 1^2]$	$ \frac{(1T_1)^2, (4T_1^*)^2, (5T_3^*)^2}{(1T_1)^2, (4T_1^*)^2, (5T_3^*)^2} $	$ \begin{array}{c} 103 \\ 20T_{211}^{**} \\ 20T_{215}^{+*} \\ 20T_{456}^{+} \end{array} $	1600	$[20, 5, 4^2, 1^{16}]$
$[5^2, 4^2, 1^2]$	$(1T_1)^2$ , $(4T_1^*)^2$ , $(5T_3^*)^2$	$20T_{215}^{+*}$	1600	$[20, 5, 4^2, 1^{16}]$
$[5^2, 4^2, 1^2]$	$(1T_1)^2$ , $(4T_4^{+*})^2$ , $(5T_4^+)^2$	$20T_{456}^{+}$	14400	$[20, 5, 4^2, 3^2, 1^{14}]$
$[5^2, 4^2, 1^2]$	$(1T_1)^2$ , $(4T_4^{+*})^2$ , $(5T_4^+)^2$	$20T_{457}$	14400	$[20, 5, 4^2, 3^2, 1^{14}]$
$[5^2, 4^2, 1^2]$	$(1T_1)^2$ , $(4T_4^{+*})^2$ , $(5T_4^+)^2$	$20T_{458}^+$	14400	$[20, 5, 4^2, 3^2, 1^{14}]$
$[5^2, 4^2, 1^2]$	$(1T_1)^2$ , $(4T_4^{+*})^2$ , $(5T_4^+)^2$	$20T_{460}$	14400	$[20, 5, 4^2, 3^2, 1^{14}]$
$[5^2, 4^2, 1^2]$	$(1T_1)^2, (4T_5^*)^2, (5T_5)^2$	$20T_{541}$	28800	$[20, 5, 4^2, 3^2, 2, 1^{13}]$
$[5^2, 4^2, 1^2]$	$(1T_1)^2$ , $(4T_5^*)^2$ , $(5T_5)^2$	$20T_{543}$	28800	$[20, 5, 4^2, 3^2, 2, 1^{13}]$
$[5^2, 4^2, 1^2]$	$(1T_1)^2$ , $(4T_5^*)^2$ , $(5T_5)^2$	$20T_{544}^{+}$	28800	$[20, 5, 4^2, 3^2, 2, 1^{13}]$
$[5^2, 4^2, 1^2]$	$(1T_1)^2, (4T_5^*)^2, (5T_5)^2$	$20T_{545}^{+}$	28800	$[20, 5, 4^2, 3^2, 2, 1^{13}]$
$[5^2, 4^2, 1^2]$	$(1T_1)^2$ , $(4T_5^*)^2$ , $(5T_5)^2$	$20T_{548}^{+}$	28800	$[20, 5, 4^2, 3^2, 2, 1^{13}]$
$[5^2, 4^2, 1^2]$	$(1T_1)^2, (4T_5^*)^2, (5T_5)^2$	$20T_{654}$	57600	$[20, 5, 4^2, 3^2, 2^2, 1^{12}]$
$[5^2, 4^2, 1^2]$	$(1T_1)^2, (4T_5^*)^2, (5T_5)^2$	$20T_{656}^{+}$	57600	$[20, 5, 4^2, 3^2, 2^2, 1^{12}]$
$[10, 4^2, 1^2]$	$(1T_1)^2, (4T_1^*)^2, 10T_3^*$	$20T_{155}^*$	800	$[20, 10, 2^2, 1^{16}]$
$[10, 4^2, 1^2]$	$(1T_1)^2, (4T_1^*)^2, 10T_4^*$	$20T_{95}^*$	400	$[20, 10, 2, 1^{17}]$
	G: Possible Galois Groups, $D(G)$ : De		rs, $S(G)$ : Galois	Groups of factors, $\mathcal{L}(G)$ : Initial Degrees

D(G)	S(G)	G   G	$\mathcal{L}(G)$
$[10, 4^2, 1^2]$	$(1T_1)^2$ , $(4T_1^*)^2$ , $10T_4^*$	$20T_{101}^*$ $400$	$[20, 10, 2, 1^{17}]$
$[10, 4^2, 1^2]$	$(1T_1)^2$ , $(4T_1^*)^2$ , $10T_4^*$	$20T_{108}^*$ 400	$[20, 10, 2, 1^{17}]$
$[10, 4^2, 1^2]$	$(1T_1)^2$ , $(4T_1^*)^2$ , $10T_4^*$	$20T_{112}^*$ 400	$[20, 10, 2, 1^{17}]$
$[10, 4^2, 1^2]$	$(1T_1)^2$ , $(4T_1^*)^2$ , $10T_4^*$	$20T_{157}^*$ 800	$[20, 10, 2^2, 1^{16}]$
$[10, 4^2, 1^2]$	$(1T_1)^2$ , $(4T_1^*)^2$ , $10T_5^*$	$20T^*_{153}$ 800	$[20, 10, 4, 1^{17}]$
$[10, 4^2, 1^2]$	$(1T_1)^2$ , $(4T_1^*)^2$ , $10T_5^*$	$20T_{156}^*$ 800	$[20, 10, 4, 1^{17}]$
$[10, 4^2, 1^2]$	$(1T_1)^2$ , $(4T_1^*)^2$ , $10T_5^*$	$20T_{158}^*$ 800	$[20, 10, 4, 1^{17}]$
$[10, 4^2, 1^2]$	$(1T_1)^2$ , $(4T_1^*)^2$ , $10T_5^*$	$20T_{159}^*$ 800	$[20, 10, 4, 1^{17}]$
$[10, 4^2, 1^2]$	$(1T_1)^2$ , $(4T_1^*)^2$ , $10T_5^*$	20T** 800	$[20, 10, 4, 1^{17}]$
$[10, 4^2, 1^2]$	$(1T_1)^2$ , $(4T_1^*)^2$ , $10T_5^*$	20T <sub>163</sub> 800	$[20, 10, 4, 1^{17}]$
$[10, 4^2, 1^2]$	$(1T_1)^2$ , $(4T_1^*)^2$ , $10T_5^*$	20T <sub>166</sub> 800	$[20, 10, 4, 1^{17}]$
$[10, 4^2, 1^2]$	$(1T_1)^2$ , $(4T_1^*)^2$ , $10T_5^*$	20T <sub>170</sub> 800	$[20, 10, 4, 1^{17}]$
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$(1T_1)^2$ , $(4T_1^*)^2$ , $10T_5^*$	$\begin{array}{c cc} 20T_{210}^* & 1600 \\ 20T_{212}^* & 1600 \end{array}$	$     \begin{bmatrix}     20, 10, 4, 2, 1^{16} \\     \hline     [20, 10, 4, 2, 1^{16}]     \end{bmatrix}   $
$[10, 4^2, 1^2]$	$(1T_1)^2, (4T_1^*)^2, 10T_5^*$ $(1T_1)^2, (4T_1^*)^2, 10T_5^*$		[20, 10, 4, 2, 1 <sup>-5</sup> ]
[10, 4, 1] $[10, 4^2, 1^2]$	$(1T_1)^{\dagger}, (4T_1)^{\dagger}, 10T_5$ $(1T_1)^2, (4T_1^*)^2, 10T_5^*$	$ \begin{array}{c cccc} 20T^*_{213} & 1600 \\ 20T^*_{214} & 1600 \\ \end{array} $	[20, 10, 4, 2, 1]
[10, 4, 1] $[10, 4^2, 1^2]$	$(1T_1)^{\dagger}, (4T_1)^{\dagger}, 10T_5$ $(1T_1)^2, (4T_1^*)^2, 10T_5^*$	$20T_{214}$ $1000$ $20T_{271}^*$ $3200$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[10, 4^2, 1^2]$	$(1T_1)^2$ , $(4T_1)^2$ , $10T_5^+$ $(1T_1)^2$ , $(4T_3^*)^2$ , $10T_{15}^{+*}$	$20T_{533}^{+*}$ $25600$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[10, 4^2, 1^2]$	$(1T_1)^2$ , $(4T_3)^2$ , $10T_{15}^{+*}$	$20T_{535}^{+*}$ $25600$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[10, 4^2, 1^2]$	$(1T_1)^2$ , $(4T_3)^2$ , $10T_{15}^{+*}$	$20T_{638}^{+*}$ $51200$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[10, 4^2, 1^2]$	$(1T_1)^2$ , $(4T_3^*)^2$ , $10T_{16}^*$	$20T_{536}^*$ 25600	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[10, 4^2, 1^2]$	$(1T_1)^2$ , $(4T_3^*)^2$ , $10T_{16}^*$	$\begin{array}{ccc} 20T_{536}^* & 25600 \\ 20T_{537}^{+*} & 25600 \end{array}$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[10, 4^2, 1^2]$	$(1T_1)^2$ , $(4T_3^*)^2$ , $10T_{16}^*$	$20T_{641}^*$ 51200	$[20, 10, 4^2, 2^4, 1^{12}]$
$[10, 4^2, 1^2]$	$(1T_1)^2$ , $(4T_3^*)^2$ , $10T_{23}^*$	$ \begin{array}{cccc} 20T_{641}^* & 51200 \\ 20T_{636}^{+*} & 51200 \\ 20T_{637}^* & 51200 \end{array} $	$[20, 10, 4, 2^6, 1^{11}]$
$[10, 4^2, 1^2]$	$(1T_1)^2$ , $(4T_3^*)^2$ , $10T_{23}^*$	$20T_{637}^*$ 51200	$[20, 10, 4, 2^6, 1^{11}]$
$[10, 4^2, 1^2]$	$(1T_1)^2$ , $(4T_3^*)^2$ , $10T_{23}^*$	$207_{639}^{*}$ 51200	$[20, 10, 4, 2^6, 1^{11}]$
$[10, 4^2, 1^2]$	$(1T_1)^2$ , $(4T_3^*)^2$ , $10T_{23}^*$	$20T_{640}^*$ 51200	$[20, 10, 4, 2^6, 1^{11}]$
$[10, 4^2, 1^2]$	$(1T_1)^2$ , $(4T_3^*)^2$ , $10T_{23}^*$	$\begin{array}{ccc} 20T_{640}^* & 51200 \\ 20T_{642}^{+*} & 51200 \end{array}$	$[20, 10, 4, 2^6, 1^{11}]$
$[10, 4^2, 1^2]$	$(1T_1)^2$ , $(4T_3^*)^2$ , $10T_{23}^*$	$20T_{649}^{+*}$ 51200	$[20, 10, 4, 2^6, 1^{11}]$
$[10, 4^2, 1^2]$	$(1T_1)^2$ , $(4T_3^*)^2$ , $10T_{23}^*$	$20T_{653}^*$ 51200	$[20, 10, 4, 2^6, 1^{11}]$
$[10, 4^2, 1^2]$	$(1T_1)^2$ , $(4T_3^*)^2$ , $10T_{23}^*$	$20T_{755}^*$ $102400$	$[20, 10, 4^2, 2^5, 1^{11}]$
$[10, 4^2, 1^2]$	$(1T_1)^2$ , $(4T_3^*)^2$ , $10T_{23}^*$	$20T_{756}^*$ $102400$	$[20, 10, 4^2, 2^5, 1^{11}]$
$[10, 4^2, 1^2]$	$(1T_1)^2$ , $(4T_3^*)^2$ , $10T_{23}^*$	$20T_{760}^{+*}$ $102400$	$[20, 10, 4^2, 2^5, 1^{11}]$
$[10, 4^2, 1^2]$	$(1T_1)^2$ , $(4T_3^*)^2$ , $10T_{23}^*$	$20T_{771}^*$ $102400$	$[20, 10, 4^2, 2^5, 1^{11}]$
$[10, 4^2, 1^2]$	$(1T_1)^2$ , $(4T_3^*)^2$ , $10T_{23}^*$	$20T_{776}^{*}$ $102400$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$(1T_1)^2$ , $(4T_3^*)^2$ , $10T_{23}^*$	$20T_{780}^*$ $102400$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
[10, 4, 1] $[10, 4^2, 1^2]$	$(1T_1)^2$ , $(4T_3^*)^2$ , $10T_{23}^*$ $(1T_1)^2$ , $(4T_4^{+*})^2$ , $10T_{11}$	$20T_{876}^*$ $204800$ $20T_{546}$ $28800$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[10, 4^2, 1^2]$	$(1T_1)^2$ , $(4T_4^+)^2$ , $10T_{11}$ $(1T_1)^2$ , $(4T_4^{+*})^2$ , $10T_{12}$	$\begin{array}{c cc} 20T_{546} & 28800 \\ \hline 20T_{539} & 28800 \\ \end{array}$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
[10, 4, 1] $[10, 4^2, 1^2]$	$(1T_1)^{2}, (4T_4)^{2}, 10T_{12}$ $(1T_1)^{2}, (4T_5^{*})^{2}, 10T_{11}$	$20T_{539}$ $28800$ $20T_{542}$ $28800$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
[10, 4, 1] $[10, 4^2, 1^2]$	$(1T_1)^2$ , $(4T_5)^2$ , $10T_{11}$ $(1T_1)^2$ , $(4T_5^*)^2$ , $10T_{12}$	$20T_{547}$ $28800$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
[10, 4, 1]	$(1T_1)^2$ , $(4T_5)^2$ , $10T_{12}$ $(1T_1)^2$ , $(4T_5^*)^2$ , $10T_{22}$	$20T_{655}$ $57600$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[10, 4^2, 1^2]$	$(1T_1)^2$ , $(4T_5)^2$ , $10T_{22}$	$20T_{657}$ 57600	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[10, 4^2, 1^2]$	$(1T_1)^2$ , $(4T_5)^2$ , $10T_{22}$	$20T_{658}$ 57600	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[10, 4^2, 1^2]$	$(1T_1)^2$ , $(4T_5^*)^2$ , $10T_{22}$	$20T_{659}$ 57600	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
	, , , , , , ,		roups of factors, $\mathcal{L}(G)$ : Initial Degrees
	1 / (-)	_ / / /	

D(G)	S(G)	G $G$	$\mathcal{L}(G)$
$[10, 4^2, 1^2]$	$(1T_1)^2$ , $(4T_5^*)^2$ , $10T_{22}$	$20T_{781}$ $115200$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[6^3, 1^2]$	$(1T_1)^2$ , $(4T_5)^2$ , $10T_{22}$ $(1T_1)^2$ , $(6T_1^*)^3$	$20T_{35}$ 120	[20, 6, 1 <sup>18</sup> ]
$[6^3, 1^2]$	$(1T_1)^2$ , $(6T_1)^3$	$20T_{65}$ 240	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[12, 6, 1^2]$	$(1T_1)^2$ , $(0T_3)^2$ $(1T_1)^2$ , $6T_7^{+*}$ , $12T_{21}^{+*}$	$20T_{172}^{+}$ 960	$[20, 12, 2^2, 1^{16}]$
$[12, 6, 1^2]$	$(1T_1)^2$ , $6T_7^{+*}$ , $12T_{48}^{+*}$	$20T_{219}^{+}$ 1920	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$(1T_1)^2$ , $6T_7^+$ , $12T_{48}^{+*}$ $(1T_1)^2$ , $6T_7^{+*}$ , $12T_{69}^{+*}$	$20T_{228}^{+}$ 1920	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
[12, 6, 1]	$(1T_1)^2$ , $6T_7^+$ , $12T_{109}^{+*}$	$20T_{281}^{+}$ $3840$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[12, 6, 1^2]$	$(1T_1)^2$ , $6T_8^*$ , $12T_{30}^*$	$20T_{177}^{+}$ 960	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$(1T_1)^2$ , $6T_8^*$ , $12T_{53}^*$	$20T_{223}$ 1920	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[12, 6, 1^2]$	$(1T_1)^2$ , $6T_{11}^*$ , $12T_{50}^*$	$20T_{224}^{+}$ 1920	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[12, 6, 1^2]$	$(1T_1)^2$ , $6T_{11}^*$ , $12T_{50}^*$	$20T_{225}^{+}$ 1920	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[12, 6, 1^2]$	$(1T_1)^2$ , $6T_{11}^*$ , $12T_{50}^*$ $(1T_1)^2$ , $6T_{11}^*$ , $12T_{52}^*$	$20T_{218}$ 1920	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[12, 6, 1^2]$	$(1T_1)^2$ , $6T_{11}^*$ , $12T_{52}^*$ $(1T_1)^2$ , $6T_{11}^*$ , $12T_{54}^*$	$20T_{222}^{+}$ 1920	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[12, 6, 1^2]$	$(1T_1)^2$ , $6T_{11}^*$ , $12T_{54}^{+*}$	$20T_{280}$ 3840	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[12, 6, 1^2]$	$(1T_1)^2$ , $6T_{11}^*$ , $12T_{86}^*$ $(1T_1)^2$ , $6T_{11}^*$ , $12T_{86}^*$	$20T_{285}$ 3840	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
[12, 6, 1]	$(1T_1)^2$ , $6T_{11}^*$ , $12T_{86}^*$ $(1T_1)^2$ , $6T_{11}^*$ , $12T_{86}^*$	$20T_{289}^{+}$ 3840	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
	$(1T_1)^{\frac{1}{2}}, 6T_{11}^{\frac{1}{2}}, 12T_{109}^{+*}$	$20T_{289}$ 3840	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
[12, 6, 1]	$(1T_1)^{*}, 6T_{11}^{*}, 12T_{109}^{*}$ $(1T_1)^{2}, 6T_{11}^{*}, 12T_{109}^{+*}$	$20T_{365}$ $7680$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$(1T_1)^{2}, 6T_{11}^{*}, 12T_{109}^{*}$ $(1T_1)^{2}, 6T_{11}^{*}, 12T_{135}^{*}$	$20T_{570}^{+}$ $30720$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
[12, 6, 1]	$(1T_1)^{*}, 6T_{11}^{*}, 12T_{135}^{*}$ $(1T_1)^{2}, 6T_{11}^{*}, 12T_{135}^{*}$	$20T_{693}$ $61440$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
[12, 6, 1]	$(1I_1)$ , $0I_{11}$ , $12I_{135}$ $(1T_1)^2$ $6T^*$ $12T^*$	$20T_{693}$ $61440$ $20T_{674}$ $61440$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
[12, 6, 1]	$(1T_1)^2$ , $6T_{11}^*$ , $12T_{193}^*$ $(1T_1)^2$ , $6T_{11}^*$ , $12T_{193}^*$		$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
[12, 6, 1]	$(1T_1)^{*}, 6T_{11}^{*}, 12T_{193}^{*}$ $(1T_1)^{2}, 6T_{11}^{*}, 12T_{193}^{*}$	$\begin{array}{c cccc} 20T_{676}^{+} & 61440 \\ \hline 20T_{808} & 122880 \end{array}$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[10, 8, 1^2]$	$(1T_1)^2$ , $8T_{16}^*$ , $10T_{25}^*$	$20T_{643}^*$ 51200	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[10, 8, 1^2]$	$(1T_1)^2$ , $8T_{16}^*$ , $10T_{25}^*$	$20T_{645}^{+*}$ 51200	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[10, 8, 1^2]$	$(1T_1)^2$ , $8T_{16}^*$ , $10T_{25}^*$ $(1T_1)^2$ , $8T_{16}^*$ , $10T_{25}^*$	$20T_{646}^{+*}$ 51200	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
[10, 8, 1]	$(1T_1)^2$ , $8T_{16}^*$ , $10T_{25}^*$ $(1T_1)^2$ , $8T_{16}^*$ , $10T_{25}^*$	$\begin{array}{cccc} 20T^*_{643} & 51200 \\ 20T^{+*}_{645} & 51200 \\ 20T^{+*}_{646} & 51200 \\ 20T^{+*}_{652} & 51200 \\ 20T^{+*}_{767} & 102400 \\ \end{array}$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
[10, 8, 1]	$(1T_1)^2$ , $8T_{16}^*$ , $10T_{25}^*$ $(1T_1)^2$ , $8T_{16}^*$ , $10T_{25}^*$	$20T_{767}^{+*}$ $102400$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
[10, 8, 1]	$(1T_1)^{7}$ , $8T_{16}^{16}$ , $10T_{25}^{25}$ $(1T_1)^{2}$ , $8T_{16}^{*}$ , $10T_{25}^{*}$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
[10, 8, 1]	$(1T_1)^{7}$ , $8T_{16}^{16}$ , $10T_{25}^{25}$ $(1T_1)^{2}$ , $8T_{16}^{*}$ , $10T_{25}^{*}$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
[10, 8, 1]	$(1T_1)^{7}$ , $8T_{16}^{+8}$ , $10T_{25}^{+8}$ $(1T_1)^{2}$ , $8T_{20}^{+8}$ , $10T_{24}^{+8}$	$20T_{644}^{+*}$ 51200	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
[10, 8, 1]	$(1T_1)^{2}$ , $8T_{20}^{+*}$ , $10T_{24}^{+*}$ $(1T_1)^{2}$ , $8T_{20}^{+*}$ , $10T_{24}^{+*}$	$\begin{array}{ccc} 20T_{644}^{+*} & 51200 \\ 20T_{648}^{+*} & 51200 \end{array}$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
[10, 8, 1]	$(1T_1)^{2}$ , $8T_{20}^{+*}$ , $10T_{24}^{+*}$	$20T_{650}^{+*}$ 51200	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[10, 8, 1^2]$	$(1T_1)^{2}$ , $8T_{20}^{+*}$ , $10T_{24}^{+*}$	$20T_{651}^{+*}$ 51200	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
[10, 8, 1]	$(1T_1)^2$ , $8T_{20}^{+*}$ , $10T_{24}^{+*}$	$20T_{764}^{+*}$ 102400	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[10, 8, 1^2]$	$(1T_1)^{7}$ , $8T_{20}^{20}$ , $10T_{24}^{24}$ $(1T_1)^{2}$ , $8T_{20}^{+*}$ , $10T_{24}^{+*}$	$20T_{777}^{+*}$ $102400$	[20, 10, 8, 4, 2, 1]
[10, 8, 1]	$(1T_1)^{7}$ , $8T_{20}^{20}$ , $10T_{24}^{24}$ $(1T_1)^{2}$ , $8T_{20}^{+*}$ , $10T_{24}^{+*}$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
[10, 8, 1]	$(111)$ , $01_{20}$ , $101_{24}$ $(17.)^2$ $97*$ $107*$	$20T_{757}^{+*}$ $102400$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
[10, 8, 1]	$(1T_1)^2$ , $8T_{27}^*$ , $10T_{29}^*$	$20T_{758}^*$ $102400$ $20T_{758}^*$ $102400$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
[10, 8, 1]	$(1T_1)^2$ , $8T_{27}^*$ , $10T_{29}^*$ $(1T_1)^2$ , $8T_{27}^*$ , $10T_{29}^*$	$\begin{array}{c cccc} 20T_{758}^* & 102400 \\ 20T_{759}^* & 102400 \end{array}$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
[10, 8, 1]	$(1T_1)^{\dagger}$ , $8T_{27}^{\dagger}$ , $10T_{29}^{\dagger}$ $(1T_1)^2$ , $8T_{27}^{*}$ , $10T_{29}^{*}$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
[10, 8, 1]	$(1T_1)^{\dagger}$ , $8T_{27}^{\dagger}$ , $10T_{29}^{\dagger}$ $(1T_1)^2$ , $8T_{27}^{*}$ , $10T_{29}^{*}$	$20T_{761}^*$ $102400$ $20T_{762}^*$ $102400$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
[10, 8, 1] $[10, 8, 1^2]$	(111), $0127$ , $10129(17.)^2 87* 107*$	$\begin{array}{c ccccc} 20T_{762} & 102400 \\ \hline 20T_{763}^{+*} & 102400 \end{array}$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[10, 8, 1]$ $[10, 8, 1^2]$	$(1T_1)^2$ , $8T_{27}^*$ , $10T_{29}^*$		$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
[10, 8, 1] $[10, 8, 1^2]$	$(1T_1)^2$ , $8T_{27}^*$ , $10T_{29}^*$ $(1T_1)^2$ , $8T_{27}^*$ , $10T_{29}^*$	100	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
L / / J		100	
-	G. Fossible Galois Groups, $D(G)$ : D	egrees of factors, $S(G)$ : Galois Gro	oups of factors, $\mathcal{L}(G)$ : Initial Degrees

D(C)	C(C)	G	101	$\mathcal{C}(C)$
D(G)	S(G)		102400	$\mathcal{L}(G)$
$[10, 8, 1^2]$	$(1T_1)^2$ , $8T_{27}^*$ , $10T_{29}^*$	$20T_{768}^{+*}$	102400	$[20, 10, 8, 2^6, 1^{11}]$
$[10, 8, 1^2]$	$(1T_1)^2$ , $8T_{27}^*$ , $10T_{29}^*$	$20T_{769}^{+*}$	102400	$[20, 10, 8, 2^6, 1^{11}]$
$[10, 8, 1^2]$	$(1T_1)^2$ , $8T_{27}^*$ , $10T_{29}^*$	$20T^*_{772}$	102400	$[20, 10, 8, 2^6, 1^{11}]$
$[10, 8, 1^2]$	$(1T_1)^2$ , $8T_{27}^*$ , $10T_{29}^*$	$20T_{773}^{+*}$	102400	$[20, 10, 8, 2^6, 1^{11}]$
$[10, 8, 1^2]$	$(1T_1)^2$ , $8T_{27}^*$ , $10T_{29}^*$	$20T_{774}^*$	102400	$[20, 10, 8, 2^6, 1^{11}]$
$[10, 8, 1^2]$	$(1T_1)^2$ , $8T_{27}^*$ , $10T_{29}^*$	$20T_{775}^*$	102400	$[20, 10, 8, 2^6, 1^{11}]$
$[10, 8, 1^2]$	$(1T_1)^2$ , $8T_{27}^*$ , $10T_{29}^*$	$20T_{778}^*$	102400	$[20, 10, 8, 2^6, 1^{11}]$
$[10, 8, 1^2]$	$(1T_1)^2$ , $8T_{27}^*$ , $10T_{29}^*$	$20T_{779}^*$	102400	$[20, 10, 8, 2^6, 1^{11}]$
$[10, 8, 1^2]$	$(1T_1)^2$ , $8T_{27}^*$ , $10T_{29}^*$	$207^*_{859}$	204800	$[20, 10, 8, 2^7, 1^{10}]$
$[10, 8, 1^2]$	$(1T_1)^2$ , $8T_{27}^*$ , $10T_{29}^*$	$20T_{861}^*$	204800	$[20, 10, 8, 2^7, 1^{10}]$
$[10, 8, 1^2]$	$(1T_1)^2$ , $8T_{27}^*$ , $10T_{29}^*$	$20T_{862}^*$	204800	$[20, 10, 8, 2^7, 1^{10}]$
$[10, 8, 1^2]$	$(1T_1)^2$ , $8T_{27}^*$ , $10T_{29}^*$	$20T_{863}^*$	204800	$[20, 10, 8, 4, 2^5, 1^{11}]$
$[10, 8, 1^2]$	$(1T_1)^2$ , $8T_{27}^*$ , $10T_{29}^*$	$20T_{864}^{+*}$	204800	$[20, 10, 8, 4, 2^5, 1^{11}]$
$[10, 8, 1^2]$	$(1T_1)^2$ , $8T_{27}^*$ , $10T_{29}^*$	$20T_{865}^{+*}$	204800	$[20, 10, 8, 4, 2^5, 1^{11}]$
$[10, 8, 1^2]$	$(1T_1)^2$ , $8T_{27}^*$ , $10T_{29}^*$	$20T_{866}^*$	204800	$[20, 10, 8, 4, 2^5, 1^{11}]$
$[10, 8, 1^2]$	$(1T_1)^2$ , $8T_{27}^*$ , $10T_{29}^*$	$20T_{867}^*$	204800	$[20, 10, 8, 4, 2^5, 1^{11}]$
$[10, 8, 1^2]$	$(1T_1)^2$ , $8T_{27}^*$ , $10T_{29}^*$	$20T_{868}^*$	204800	$[20, 10, 8, 4, 2^5, 1^{11}]$
$[10, 8, 1^2]$	$(1T_1)^2$ , $8T_{27}^*$ , $10T_{29}^*$	$20T_{870}^*$	204800	$[20, 10, 8, 4, 2^5, 1^{11}]$
$[10, 8, 1^2]$	$(1T_1)^2$ , $8T_{27}^*$ , $10T_{29}^*$	$20T_{871}^*$	204800	$[20, 10, 8, 4, 2^5, 1^{11}]$
$[10, 8, 1^2]$	$(1T_1)^2$ , $8T_{27}^*$ , $10T_{29}^*$	$20T_{872}^{+*}$	204800	$[20, 10, 8, 4, 2^5, 1^{11}]$
$[10, 8, 1^2]$	$(1T_1)^2$ , $8T_{27}^*$ , $10T_{29}^*$	$20T_{873}^*$	204800	$[20, 10, 8, 4, 2^5, 1^{11}]$
$[10, 8, 1^2]$	$(1T_1)^2$ , $8T_{27}^*$ , $10T_{29}^*$	$20T_{874}^*$	204800	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
$[10, 8, 1^2]$	$(1T_1)^2$ , $8T_{27}^*$ , $10T_{29}^*$	$20T_{875}^*$	204800	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[10, 8, 1^2]$	$(1T_1)^2$ , $8T_{27}^*$ , $10T_{29}^*$	$20T_{923}^*$	409600	$ \begin{bmatrix} 20, 10, 8^2, 2^5, 1^{11} \end{bmatrix} $
$[10, 8, 1^2]$	$(1T_1)^2$ , $8T_{27}^*$ , $10T_{29}^*$	$20T_{924}^*$	409600	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[10, 8, 1^2]$	$(1T_1)^2$ , $8T_{27}^*$ , $10T_{29}^*$	207924	409600	$ \begin{bmatrix} 20, 10, 8, 4, 2^6, 1^{10} \end{bmatrix} $
$[10, 8, 1^2]$	$(1T_1)^2$ , $8T_{27}^*$ , $10T_{29}^*$	$20T_{925}^*  20T_{926}^{+*}$	409600	$ \begin{bmatrix} 20, 10, 8^2, 2^5, 1^{11} \end{bmatrix} $
$[10, 8, 1^2]$	$(1T_1)^2$ , $8T_{27}^*$ , $10T_{29}^*$	$20T_{926}^*$ $20T_{927}^*$	409600	$ \begin{bmatrix} 20, 10, 8^2, 2^5, 1^{11} \end{bmatrix} $
$[10, 8, 1^2]$	$(1T_1)^2$ , $8T_{27}^*$ , $10T_{29}^*$	$20T_{928}^*$	409600	$ \begin{bmatrix} 20, 10, 8, 4, 2^6, 1^{10} \end{bmatrix} $
[10, 8, 1]	$(1T_1)^{\frac{1}{2}}$ , $8T_{27}^{\frac{1}{2}}$ , $10T_{29}^{\frac{1}{2}}$	$20T_{928}^*$ $20T_{955}^*$	819200	$ \begin{bmatrix} 20, 10, 8, 4, 2, 1 \\ 20, 10, 8^2, 2^6, 1^{10} \end{bmatrix} $
[10, 8, 1]	$(1T_1)^2$ , $8T_{32}^{+*}$ , $10T_{34}^{+}$	$20T_{955}^{+}$ $20T_{985}^{+}$	1843200	$ \begin{bmatrix} 20, & 10, & 8, & 2, & 1 & 1 \\ 20, & 10, & 8^2, & 6^2, & 2^2, & 1^{12} \end{bmatrix} $
[10, 8, 1]	$(111)$ , $61_{32}$ , $101_{34}$			$ \begin{bmatrix} 20, & 10, & 8 & , & 0 & , & 2 & , & 1 & ] \\ [20, & 10, & 8^2, & 6^2, & 2^3, & 1^{11}] \end{bmatrix} $
$[10, 8, 1]$ $[10, 8, 1^2]$	$(1T_1)^2$ , $8T_{38}^*$ , $10T_{36}$	$20T_{1008}^{+}$	3686400	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
	$(1T_1)^2$ , $8T_{38}^*$ , $10T_{36}$	$20T_{1010}$	3686400	
$[10, 8, 1^2]$	$(1T_1)^2$ , $8T_{38}^*$ , $10T_{36}$	$20T_{1023}$	7372800	$[20, 10, 8^2, 6^2, 2^4, 1^{10}]$
$[10, 8, 1^2]$	$(1T_1)^2$ , $8T_{39}^{+*}$ , $10T_{37}^{+}$	$20T_{1012}^{+}$	3686400	$[20, 10, 8^2, 6^2, 4, 2, 1^{12}]$
$[10, 8, 1^2]$	$(1T_1)^2$ , $8T_{39}^{+*}$ , $10T_{37}^{+}$	$20T_{1013}^{+}$	3686400	$[20, 10, 8^2, 6^2, 4, 2, 1^{12}]$
$[10, 8, 1^2]$	$(1T_1)^2$ , $8T_{39}^{+*}$ , $10T_{37}^{+}$	$20T_{1030}^{+}$	7372800	$[20, 10, 8^2, 6^2, 4^2, 1^{12}]$
$[10, 8, 1^2]$	$(1T_1)^2$ , $8T_{40}^*$ , $10T_{38}$	$20T_{1009}^{+}$	3686400	$[20, 10, 8^2, 6^2, 4, 2, 1^{12}]$
$[10, 8, 1^2]$	$(1T_1)^2$ , $8T_{40}^*$ , $10T_{38}$	$20T_{1011}$	3686400	$[20, 10, 8^2, 6^2, 4, 2, 1^{12}]$
$[10, 8, 1^2]$	$(1T_1)^2$ , $8T_{40}^*$ , $10T_{38}$	$20T_{1022}$	7372800	$[20, 10, 8^2, 6^2, 4^2, 1^{12}]$
$[10, 8, 1^2]$	$(1T_1)^2$ , $8T_{44}^*$ , $10T_{39}$	$20T_{1024}$	7372800	$[20, 10, 8^2, 6^2, 4, 2^2, 1^{11}]$
$[10, 8, 1^2]$	$(1T_1)^2$ , $8T_{44}^*$ , $10T_{39}$	$20T_{1025}^{+}$	7372800	$[20, 10, 8^2, 6^2, 4, 2^2, 1^{11}]$
$[10, 8, 1^2]$	$(1T_1)^2$ , $8T_{44}^*$ , $10T_{39}$	$20T_{1026}$	7372800	$[20, 10, 8^2, 6^2, 4, 2^2, 1^{11}]$
$[10, 8, 1^2]$	$(1T_1)^2$ , $8T_{44}^*$ , $10T_{39}$	$20T_{1027}$	7372800	$[20, 10, 8^2, 6^2, 4, 2^2, 1^{11}]$
$[10, 8, 1^2]$	$(1T_1)^2$ , $8T_{44}^*$ , $10T_{39}$	$20T_{1028}^{+}$	7372800	$[20, 10, 8^2, 6^2, 4, 2^2, 1^{11}]$
(	G: Possible Galois Groups, $D(G)$ : Deg	rees of facto	rs, $S(G)$ : Galois Group	s of factors, $\mathcal{L}(G)$ : Initial Degrees

D(G)	S(G)	$G \qquad  G $	$\mathcal{L}(G)$
$[10, 8, 1^2]$	$(1T_1)^2, 8T_{44}^*, 10T_{39}$	$20T_{1029}$ $73728$	
$[10, 8, 1^2]$	$(1T_1)^2$ , $8T_{44}^*$ , $10T_{39}$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$[10, 8, 1^2]$	$(1T_1)^2$ , $8T_{44}^*$ , $10T_{39}$	$20T_{1036}$ $14745$	
$[10, 8, 1^2]$	$(1T_1)^2$ , $8T_{44}^*$ , $10T_{39}$	$20T_{1036}$ $14748$	
$[10, 8, 1^2]$	$(1T_1)^2$ , $8T_{44}^*$ , $10T_{39}$	$20T_{1037}$ $14748$ $20T_{1038}$ $14748$	
[10, 8, 1]	(111), $0144$ , $10139$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
[10, 8, 1]	$\begin{array}{c} (17)^{2}, \ 8T_{44}^{*}, \ 10T_{39} \\ (1T_{1})^{2}, \ 8T_{44}^{*}, \ 10T_{39} \\ (1T_{1})^{2}, \ 8T_{44}^{*}, \ 10T_{39} \\ (1T_{1})^{2}, \ 8T_{44}^{*}, \ 10T_{39} \\ \end{array}$	$20T_{1040}^{+}$ $14745$	
[10, 8, 1]	$(111)$ , $01_{44}$ , $101_{39}$	$\begin{array}{ c c c c c }\hline 20T^{+}_{1040} & 14745 \\\hline 20T_{1041} & 14745 \\\hline \end{array}$	
[10, 8, 1]	$(111)$ , $01_{44}$ , $101_{39}$	$20T_{1045}$ $29491$	
$[9^2, 1^2]$	$(1T_1)^2$ , $8T_{44}^*$ , $10T_{39}$ $(1T_1)^2$ , $(9T_5^{+*})^2$	$20T_{89}^{+}$ $360$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[9, 1]$ $[9^2, 1^2]$			
	$(1T_1)^2, (9T_8^*)^2$	$20T_{149}^{+}$ 720	$[20, 9, 2^2, 1^{16}]$
$[9^2, 1^2]$	$(1T_1)^2, (9T_9^{+*})^2$	$20T_{145}^{+}$ 720	$[20, 9, 4, 1^{17}]$
$[9^2, 1^2]$	$(1T_1)^2, (9T_9^{+*})^2$	$20T_{146}^{+}$ 720	$[20, 9, 4, 1^{17}]$
$[9^2, 1^2]$	$(1T_1)^2, (9T_9^{+*})^2$	$20T_{148}^{+}$ 720	$[20, 9, 4, 1^{17}]$
$[9^2, 1^2]$	$(1T_1)^2, (9T_9^{+*})^2$	$20T_{151}^{+}$ 720	$[20, 9, 4, 1^{17}]$
$[9^2, 1^2]$	$(1T_1)^2, (9T_9^{+*})^2$	$20T_{152}^{+}$ 720	$[20, 9, 4, 1^{17}]$
$[9^2, 1^2]$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c cc} 20T_{152}^{+} & 720 \\ 20T_{202}^{+} & 1440 \end{array}$	$[20, 9, 8, 1^{17}]$
$[9^2, 1^2]$	$(1T_1)^2, (9T_{14}^{+*})^2$	$20T_{204}^+$ 1440	$[20, 9, 8, 1^{17}]$
$[9^2, 1^2]$	$(1T_1)^2$ , $(9T_{15}^*)^2$	$20T_{205}^{+}$ 1440	$[20, 9, 8, 1^{17}]$
$[9^2, 1^2]$	$(1T_1)^2, (9T_{15}^*)^2$	$20T_{208}^{+}$ 1440	$[20, 9, 8, 1^{17}]$
$[9^2, 1^2]$	$(1T_1)^2, (9T_{16}^*)^2$	$20T_{198}^{+}$ 1440	$[20, 9, 4, 2, 1^{16}]$
$[9^2, 1^2]$	$(1T_1)^2, (9T_{16}^*)^2$	$20T_{199}^{+}$ 1440	$[20, 9, 4, 2, 1^{16}]$
$[9^2, 1^2]$	$(1T_1)^2, (9T_{16}^*)^2$	$20T_{201}^{+}$ 1440	$[20, 9, 4, 2, 1^{16}]$
$[9^2, 1^2]$	$(1T_1)^2, (9T_{19}^*)^2$	$20T_{266}^{+}$ 2880	$[20, 9, 8, 2, 1^{16}]$
$[9^2, 1^2]$	$(1T_1)^2, (9T_{33}^+)^2$	$20T_{1006}^{+}$ 36288	
$[9^2, 1^2]$	$(1T_1)^2, (9T_{33}^+)^2$	$20T_{1007}^{+}$ 36288	$[20, 9, 8, 7, 6, 5, 4, 3, 1^{12}]$
$[9^2, 1^2]$	$(1T_1)^2$ , $(9T_{34})^2$	$20T_{1021}^{+}$ 72576	
$[18, 1^2]$	$(1T_1)^2$ , $18T_{10}^*$	$20T_{150}$ 720	$[20, 18, 2, 1^{17}]$
$[18, 1^2]$	$(1T_1)^2$ , $18T_{28}^*$	$20T_{200}$ 1440	$[20, 18, 4, 1^{17}]$
$[18, 1^2]$	$(1T_1)^2$ , $18T_{35}^*$	$20T_{197}$ 1440	$[20, 18, 4, 1^{17}]$
$[18, 1^2]$	$(1T_1)^2$ , $18T_{73}^*$	$20T_{265}$ 2880	$[20, 18, 4, 2, 1^{16}]$
$[18, 1^2]$	$(1T_1)^2$ , $18T_{182}^{+*}$	$20T_{452}^{+}$ 11520	
$[18, 1^2]$	$(1T_1)^2$ , $18T_{275}^{+*}$	$20T_{531}^{+}$ 23040	
$[18, 1^2]$	$(1T_1)^2$ , $18T_{549}^{+*}$	$20T_{857}^{+}$ 18432	
$[18, 1^2]$	$(1T_1)^2$ , $18T_{622}^{+*}$	$20T_{919}^{+}$ 36864	
$[18, 1^2]$	$(1T_1)^2$ , $18T_{624}^*$	$20T_{913}$ $36864$	
$[18, 1^2]$	$(1T_1)^2$ , $18T_{625}^*$	$20T_{915}$ $36864$	
$[18, 1^2]$	$(1T_1)^2$ , $18T_{626}^*$	$20T_{916}$ $36864$	
$[18, 1^2]$	$(1T_1)^2$ , $18T_{628}^{+*}$	$20T_{917}^{+}$ $36864$	2
$[18, 1^2]$	$(1T_1)^2$ , $18T_{629}^*$	$20T_{920}$ $36864$	
$[18, 1^2]$	$(1T_1)^2$ , $18T_{630}^{+*}$	$20T_{914}^{+}$ $36864$	
$[18, 1^2]$	$(1T_1)^2$ , $18T_{689}^*$	$20T_{947}$ $73728$	
$[18, 1^2]$	$(1T_1)^2$ , $18T_{690}^*$	$20T_{948}$ $73728$	
$[18, 1^2]$	$(1T_1)^2$ , $18T_{691}^*$	$20T_{953}$ $73728$	
$[18, 1^2]$	$(1T_1)^{7}, 10T_{691}^{691}$ $(1T_1)^{2}, 18T_{692}^{+*}$	$20T_{952}^{+}$ $73728$	$\begin{bmatrix} 20, 18, 6, 4, 2, 1 \end{bmatrix}$ $\begin{bmatrix} 20, 18, 16, 4, 2^5, 1^{11} \end{bmatrix}$
			[20, 10, 10, 4, 2, 1]   Galois Groups of factors, $\mathcal{L}(G)$ : Initial Degrees
	G. 1 ossibie Galois Groups, D(G). De	61003 OI 1401015, D(G)	* * *
			$\Rightarrow$

Splitting table of degree 20

D(G)	S(G)	G	G	$\mathcal{L}(G)$
$[18, 1^2]$	$(1T_1)^2$ , $18T_{693}^*$	$20T_{954}$	737280	$[20, 18, 16, 4, 2^5, 1^{11}]$
$[18, 1^2]$	$(1T_1)^2$ , $18T_{694}^*$	$20T_{949}$	737280	$[20, 18, 16, 4, 2^5, 1^{11}]$
$[18, 1^2]$	$(1T_1)^2$ , $18T_{695}^*$	$20T_{951}$	737280	$[20, 18, 16, 4, 2^5, 1^{11}]$
$[18, 1^2]$	$(1T_1)^2$ , $18T_{763}^*$	$20T_{981}$	1474560	$[20, 18, 16, 4, 2^6, 1^{10}]$
$[18, 1^2]$	$(1T_1)^2$ , $18T_{963}^+$	$20T_{1100}^{+}$	928972800	$[20, 18, 16, 14, 12, 10, 8, 6, 2, 1^{11}]$
$[18, 1^2]$	$(1T_1)^2$ , $18T_{964}^+$	$20T_{1105}^{+}$	1857945600	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[18, 1^2]$	$(1T_1)^2$ , $18T_{965}$	$20T_{1104}$	1857945600	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[18, 1^2]$	$(1T_1)^2$ , $18T_{966}$	$20T_{1106}$	1857945600	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[18, 1^2]$	$(1T_1)^2$ , $18T_{968}$	$20T_{1110}$	3715891200	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$
$[6^2, 3, 2^2, 1]$	$1T_1, (2T_1)^2, 3T_1^{+*}, (6T_1^*)^2$	$20T_{37}^{+*}$	120	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[6^2, 3, 2^2, 1]$	$1T_1, (2T_1)^2, 3T_2^*, (6T_2^*)^2$	$20T_{33}^*$	120	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$1T_1, (2T_1)^2, 3T_2^*, (6T_3^*)^2$	$20T_{69}^*$	240	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[5^3, 2^2, 1]$	$1T_1, (2T_1)^2, (5T_2^{+*})^3$	$20T_{51}^*$	200	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[5^3, 2^2, 1]$	$1T_1, (2T_1)^2, (5T_2^{+*})^3$	$20T_{180}^*$	1000	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[5^3, 2^2, 1]$	$1T_1, (2T_1)^2, (5T_2^{+*})^3$	$20T_{180}^{+*}$ $20T_{182}^{+*}$	1000	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
$[5^3, 2^2, 1]$	$1T_1, (2T_1)^2, (5T_2^{+*})^3$	$20T_{182}^{+*}$ $20T_{183}^{+*}$	1000	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[5^3, 2^2, 1]$	$1T_1, (2T_1)^2, (5T_2^{+*})^3$	$20T_{183}$	1000	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
$[5^3, 2^2, 1]$	$1T_1, (2T_1)^2, (5T_2^{+*})^3$	$20T_{184}$	5000	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[5^3, 2^2, 1]$	$1T_1, (2T_1)^2, (5T_2^{-1})^3$	$ \begin{array}{c} 20T_{184}^* \\ 20T_{293}^{+*} \\ 20T_{295}^{+*} \\ 20T_{296}^{+*} \end{array} $	5000	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[5^3, 2^2, 1]$	$1T_1, (2T_1)^{\dagger}, (5T_2^{\dagger})^{\dagger}$ $1T_1, (2T_1)^2, (5T_2^{+*})^3$	201 <sub>295</sub>	5000	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[5^3, 2^2, 1]$	$1T_1, (2T_1)^2, (5T_2^{-1})^3$	201 <sub>296</sub>	5000	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
$[5^3, 2^2, 1]$	$1T_1, (2T_1)^2, (5T_2^{+*})^3$	$\begin{array}{c c} 20T_{297}^* \\ 20T_{298}^{+*} \end{array}$	5000	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[5^3, 2^2, 1]$	$1T_1, (2T_1), (5T_2)$ $1T_1, (2T_1)^2, (5T_2^{+*})^3$	201 <sub>298</sub>	5000	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
	$1T_1, (2T_1), (3T_2)$	$20T_{300}^*$	10000	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[5^3, 2^2, 1]$	$1T_1, (2T_1)^2, (5T_2^{+*})^3$ $1T_1, (2T_1)^2, (5T_2^{+*})^3$	$20T_{378}^*$	10000	$ \begin{bmatrix} 20, 3^{3}, 2^{2}, 1 \\ 20, 5^{3}, 2^{2}, 1^{14} \end{bmatrix} $
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		$20T_{386}^*$	10000	$\begin{bmatrix} 20, 5^{4}, 2, 1 \end{bmatrix}$ $\begin{bmatrix} 20, 5^{3}, 2^{2}, 1^{14} \end{bmatrix}$
	$1T_1, (2T_1)^2, (5T_2^{+*})^3$	$20T_{391}^{+*}$	10000	$ \begin{bmatrix} 20, 3^{3}, 2^{2}, 1 \\ [20, 5^{3}, 2^{2}, 1^{14}] \end{bmatrix} $
$[5^3, 2^2, 1]$	$1T_1, (2T_1)^2, (5T_2^{+*})^3$	$20T_{395}^{+*}$		$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[5^3, 2^2, 1]$	$1T_1, (2T_1)^2, (5T_2^{+*})^3$	$20T_{473}^{+*}$	20000	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[5^3, 2^2, 1]$	$1T_1, (2T_1)^2, (5T_2^{+*})^3$	20T**	20000	
$[5^3, 2^2, 1]$	$1T_1, (2T_1)^2, (5T_2^{+*})^3$	$ \begin{array}{c} 20T_{489}^* \\ 20T_{500}^{+*} \\ 20T_{613}^{+*} \end{array} $	20000	$[20, 5^3, 2^3, 1^{13}]$
$[5^3, 2^2, 1]$	$1T_1, (2T_1)^2, (5T_2^{+*})^3$	201 500	20000	$[20, 5^3, 2^3, 1^{13}]$
$[5^3, 2^2, 1]$	$1T_1, (2T_1)^2, (5T_2^{+*})^3$	201 <sub>613</sub>	40000	$[20, 5^3, 2^4, 1^{12}]$
$[5^3, 2^2, 1]$	$1T_1, (2T_1)^2, (5T_2^{+*})^3$	20T**	40000	$[20, 5^3, 2^4, 1^{12}]$
$[10, 5, 2^2, 1]$	$1T_1, (2T_1)^2, 5T_2^{+*}, 10T_6^*$	$20T_{178}^*$	1000	$[20, 5^2, 2, 1^{16}]$
$[10, 5, 2^2, 1]$	$1T_1, (2T_1)^2, 5T_2^{+*}, 10T_6^*$	$20T^*_{179}$	1000	$[20, 5^2, 2, 1^{16}]$
$[10, 5, 2^2, 1]$	$1T_1, (2T_1)^2, 5T_2^{+*}, 10T_6^*$	$20T_{294}^{*}$	5000	$[20, 5^3, 2, 1^{15}]$
$[10, 5, 2^2, 1]$	$1T_1, (2T_1)^2, 5T_2^{+*}, 10T_9^*$	$20T_{233}^*$	2000	$[20, 10, 5, 2, 1^{16}]$
$[10, 5, 2^2, 1]$	$1T_1, (2T_1)^2, 5T_2^{+*}, 10T_9^*$	$20T_{234}^{*}$	2000	$[20, 10, 5, 2, 1^{16}]$
$[10, 5, 2^2, 1]$	$1T_1, (2T_1)^2, 5T_2^{+*}, 10T_9^*$	$20T_{380}^*$	10000	$[20, 10, 5^2, 2, 1^{15}]$
$[10, 5, 2^2, 1]$		$20T_{396}^*$	10000	$[20, 10, 5^2, 2, 1^{15}]$
$[10, 5, 2^2, 1]$	$1T_1, (2T_1)^2, 5T_2^{+*}, 10T_9^*$	$20T_{398}^*$	10000	$[20, 10, 5^2, 2, 1^{15}]$
$[10, 5, 2^2, 1]$	$1T_1, (2T_1)^2, 5T_2^{+*}, 10T_9^*$	$20T_{403}^*$	10000	$[20, 10, 5^2, 2, 1^{15}]$
$[10, 5, 2^2, 1]$	$1T_1, (2T_1)^2, 5T_2^{+*}, 10T_9^*$	$20T_{476}^*$	20000	$[20, 5^3, 2^3, 1^{13}]$
$[10, 5, 2^2, 1]$	$1T_1, (2T_1)^2, 5T_2^{+*}, 10T_9^*$	$20T_{486}^*$	20000	$[20, 10, 5^2, 2^2, 1^{14}]$
$[10, 5, 2^2, 1]$	$1T_1, (2T_1)^2, 5T_2^{+*}, 10T_{10}^*$	$20T_{475}^*$	20000	$[20, 10, 5^2, 2^2, 1^{14}]$
	G: Possible Galois Groups, $D(G)$ : Deg	rees of facto	rs, $S(G)$ : Galois Group	os of factors, $\mathcal{L}(G)$ : Initial Degrees

D(G)	S(G)	G	G	$\mathcal{L}(G)$
$[10, 5, 2^2, 1]$	$1T_1, (2T_1)^2, 5T_2^{+*}, 10T_{10}^*$	$20T_{506}^{*}$	20000	$ [20, 5^3, 2^3, 1^{13}] $
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$1T_1, (2T_1), 5T_2, 10T_{10}$ $1T_1, (2T_1)^2, 5T_2^{+*}, 10T_{21}^*$	201 <sub>506</sub>	40000	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[10, 5, 2^2, 1]$	$1T_1, (2T_1)^{\dagger}, 5T_2^{\dagger}, 10T_{21}^{\dagger}$ $1T_1, (2T_1)^2, 5T_2^{+*}, 10T_{21}^{*}$	$20T_{606}^{*}$	40000	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$1T_1, (2T_1), 5T_2, 10T_{21}$ $1T_1, (2T_1)^2, 5T_1^{+*}, 10T_1^{**}$	20T* 20T*	40000	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$1T_1, (2T_1)^2, 5T_2^{+*}, 10T_{21}^*$ $1T_1, (2T_1)^2, 5T_2^{+*}, 10T_{21}^*$	20T**		$ \begin{bmatrix} 20, 10, 5, 2^{3}, 1^{3} \\ [20, 10, 5^{2}, 2^{3}, 1^{13}] \end{bmatrix} $
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$1I_1, (2I_1), 3I_2, 10I_{21}$	20T**	40000	
$[10, 5, 2^2, 1]$	$1T_1, (2T_1)^2, 5T_2^{+*}, 10T_{21}^*$	20T**	80000	$[20, 10, 5^2, 2^4, 1^{12}]$
$[15, 2^2, 1]$	$1T_1, (2T_1)^2, 15T_{12}^{+*}$	20T <sub>269</sub> <sup>+*</sup>	3000	$[20, 15, 5, 2, 1^{16}]$
$[15, 2^2, 1]$	$1T_1, (2T_1)^2, 15T_{14}^*$	20T*	3000	$[20, 15, 5, 2, 1^{16}]$
$[15, 2^2, 1]$	$1T_1, (2T_1)^2, 15T_{18}^*$	$ \begin{array}{c} 20T_{361}^* \\ 20T_{464}^{+*} \\ 20T_{465}^{+*} \end{array} $	6000	$[20, 15, 10, 2, 1^{16}]$
$[15, 2^2, 1]$	$1T_1, (2T_1)^2, 15T_{30}^{+*}$	201464	15000	$[20, 15, 5^2, 2, 1^{15}]$
$[15, 2^2, 1]$	$1T_1, (2T_1)^2, 15T_{30}^{+*}$	201465	15000	$[20, 15, 5^2, 2, 1^{15}]$
$[15, 2^2, 1]$	$1T_1, (2T_1)^2, 15T_{31}^*$	20T*	15000	$[20, 15, 5^2, 2, 1^{15}]$
$[15, 2^2, 1]$	$1T_1, (2T_1)^2, 15T_{40}^*$	20T**	30000	$[20, 15, 10, 5, 2, 1^{15}]$
$[15, 2^2, 1]$	$1T_1, (2T_1)^2, 15T_{40}^*$	$20T_{552}^*$	30000	$[20, 15, 5^2, 2^2, 1^{14}]$
$[15, 2^2, 1]$	$1T_1, (2T_1)^2, 15T_{50}^{+*}$	$ \begin{array}{c} 332 \\ 20T_{661}^{+*} \\ 20T_{788}^{+*} \\ 20T_{784}^{*} \end{array} $	60000	$[20, 15, 5^2, 2^3, 1^{13}]$
$[15, 2^2, 1]$	$1T_1, (2T_1)^2, 15T_{50}^{+*}$	207788	120000	$[20, 15, 5^2, 2^4, 1^{12}]$
$[15, 2^2, 1]$	$1T_1, (2T_1)^2, 15T_{60}^*$	207784	120000	$[20, 15, 10, 5, 2^3, 1^{13}]$
$[15, 2^2, 1]$	$1T_1, (2T_1)^2, 15T_{60}^*$	$1207_{786}$	120000	$[20, 15, 10, 5, 2^3, 1^{13}]$
$[15, 2^2, 1]$	$1T_1, (2T_1)^2, 15T_{60}^*$	$ \begin{array}{c} 20T_{882}^{*} \\ 20T_{67}^{+*} \\ 20T_{171}^{+*} \end{array} $	240000	$[20, 15, 10, 5, 2^4, 1^{12}]$
$[4^4, 3, 1]$	$1T_1, 3T_1^{+*}, (4T_4^{+*})^4$	20767	240	$[20, 4, 3, 1^{17}]$
$[4^4, 3, 1]$	$1T_1, 3T_1^{+*}, (4T_4^{+*})^4$	$20T_{171}^{+*}$	960	$[20, 4^2, 3, 1^{16}]$
$[4^4, 3, 1]$	$1T_1, 3T_1^{+*}, (4T_4^{+*})^4$	$20T_{286}^{+*}  20T_{469}^{+*}$	3840	$[20, 4^3, 3, 1^{15}]$
$[4^4, 3, 1]$	$1T_1, 3T_1^{+*}, (4T_4^{+*})^4$	$20T_{469}^{+*}$	15360	$[20, 4^4, 3, 1^{14}]$
$[4^4, 3, 1]$	$1T_1, 3T_1^{+*}, (4T_4^{+*})^4$	$20T_{929}^{+*}$	414720	$[20, 4^4, 3^4, 1^{11}]$
$[4^4, 3, 1]$	$1T_1, 3T_1^{+*}, (4T_4^{+*})^4$	$20T_{979}^{+*}$	1244160	$[20, 4^4, 3^5, 1^{10}]$
$[4^4, 3, 1]$	$1T_1, 3T_2^*, (4T_5^*)^4$	$20T_{374}^*$	7680	$[20, 4^3, 3, 2, 1^{14}]$
$[4^4, 3, 1]$	$1T_1, 3T_2^*, (4T_5^*)^4$	$20T_{563}^*$	30720	$[20, 4^4, 3, 2, 1^{13}]$
$[4^4, 3, 1]$	$1T_1, 3T_2^*, (4T_5^*)^4$	$20T_{958}^*$	829440	$[20, 4^4, 3^4, 2, 1^{10}]$
$[4^4, 3, 1]$	$1T_1, 3T_2^*, (4T_5^*)^4$	$20T_{1004}^*$	2488320	$[20, 4^4, 3^5, 2, 1^9]$
$[4^4, 3, 1]$	$1T_1, 3T_2^*, (4T_5^*)^4$	$ \begin{array}{c} 20T_{1004}^* \\ 20T_{1043}^{+*} \end{array} $	19906560	$[20, 4^4, 3^5, 2^4, 1^6]$
$[4^4, 3, 1]$	$1T_1, 3T_2^*, (4T_5^*)^4$	$ \begin{array}{r}     20T_{1050}^{*} \\     20T_{68}^{+*} \\     20T_{147}^{+} \end{array} $	39813120	$[20, 4^4, 3^5, 2^5, 1^5]$
[12, 4, 3, 1]	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$20T_{68}^{+*}$	240	$[20, 4, 3, 1^{17}]$
[12, 4, 3, 1]	$1T_1, 3T_1^{+*}, 4T_4^{+*}, 12T_{20}^{+*}$	$20T_{147}^{+}$	720	$[20, 4, 3^2, 1^{16}]$
[12, 4, 3, 1]	$1T_1, 3T_1^{+*}, 4T_5^*, 12T_{45}^*$	$20T_{206}^{+}$	1440	$[20, 4, 3^2, 2, 1^{15}]$
[12, 4, 3, 1]	$1T_1, 3T_2^*, 4T_1^*, 12T_5^*$	$20T_{61}^*$	240	$[20, 3, 2^2, 1^{16}]$
[12, 4, 3, 1]	$1T_1, 3T_2^*, 4T_1^*, 12T_{11}^*$	$20T_{121}^*$	480	$[20, 4, 3, 2, 1^{16}]$
[12, 4, 3, 1]	$1T_1, 3T_2^*, 4T_4^{+*}, 12T_{43}^{+*}$	$20T_{203}$	1440	$[20, 4, 3^2, 2, 1^{15}]$
[12, 4, 3, 1]	$1T_1, 3T_2^*, 4T_5^*, 12T_{44}^*$	$20T_{207}$	1440	$[20, 4, 3^2, 2, 1^{15}]$
[12, 4, 3, 1]	$1T_1, 3T_2^*, 4T_5^*, 12T_{83}^*$	$20T_{264}$	2880	$[20, 4, 3^2, 2^2, 1^{14}]$
[10, 6, 3, 1]	$1T_1, 3T_2^*, 6T_2^*, 10T_7^+$	$20T_{363}^{+}$	7200	$[20, 10, 6^2, 1^{16}]$
[10, 6, 3, 1]	$1T_1, 3T_2^*, 6T_3^*, 10T_{13}$	$20T_{459}^{+}$	14400	$[20, 10, 6^2, 2, 1^{15}]$
[10, 6, 3, 1]	$1T_1, 3T_2^*, 6T_3^*, 10T_{13}$	$20T_{461}$	14400	$[20, 10, 6^2, 2, 1^{15}]$
[10, 6, 3, 1]	$1T_1, 3T_2^*, 6T_3^*, 10T_{13}$	$20T_{540}$	28800	$[20, 10, 6^2, 2^2, 1^{14}]$
$[8^2, 3, 1]$	$1T_1, 3T_1^{+*}, (8T_{13}^{+*})^2$	$20T_{122}^{+*}$	480	$[20, 8, 3, 1^{17}]$
$[8^2, 3, 1]$	$1T_1, 3T_1^{+*}, (8T_{33}^{+*})^2$	$20T_{216}^{+*}$	1920	$[20, 8, 4, 3, 1^{16}]$
	G: Possible Galois Groups, $D(G)$ : De	grees of facto	rs, $S(G)$ : Galois Grou	ps of factors, $\mathcal{L}(G)$ : Initial Degrees
			·	

D(G)	S(G)	G   G	$\mathcal{L}(G)$
$[8^2, 3, 1]$	$1T_1, 3T_1^{+*}, (8T_{33}^{+*})^2$	$20T_{372}^{+*}$ $7680$	$[20, 8, 4^2, 3, 1^{15}]$
$[8^2, 3, 1]$	$1T_1, 3T_1^{+*}, (8T_{33}^{+*})^2$	$20T_{572}^{+*}$ $30720$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[8^2, 3, 1]$	$1T_1, 3T_1^{+*}, (8T_{42}^{+*})^2$	$20T_{957}^{+*}$ 829440	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[8^2, 3, 1]$	$1T_1, 3T_1^{+*}, (8T_{42}^{+*})^2$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[8^2, 3, 1]$	$1T_1, 3T_1^*, (8T_{34}^{+*})^2$	$20T_{371}^*$ $7680$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[8^2, 3, 1]$	$1T_1, 3T_2, (8T_{34})$ $1T_1, 3T_2^*, (8T_{34}^{+*})^2$	$\begin{array}{ccc} 20T^*_{371} & 7680 \\ 20T^*_{557} & 30720 \end{array}$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[8^2, 3, 1]$	$1T_1, 3T_2, (8T_{41}^{+*})^2$ $1T_1, 3T_2^*, (8T_{41}^{+*})^2$	$20T_{470}^{*}$ $15360$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[8^2, 3, 1]$	$1T_1, 3T_2, (8T_{41})$ $1T_1, 3T_2^*, (8T_{41}^{+*})^2$	$20T_{670}^*$ 61440	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[8^2, 3, 1]$	$1T_1, 3T_2, (8T_{41})$ $1T_1, 3T_2^*, (8T_{42}^{+*})^2$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[8^2, 3, 1]$	$1T_1, 3T_2, (8T_{42})$ $1T_1, 3T_2^*, (8T_{42}^{+*})^2$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[8^2, 3, 1]$	$1T_1, 3T_2, (8T_{42})$ $1T_1, 3T_2^*, (8T_{45}^{+*})^2$	$20T_{1002}^*$ 2468320 $20T_{982}^*$ 1658880	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[8^2, 3, 1]$	$111, 31_2, (01_{45})$ $1T, 2T^*, (9T^{+*})^2$		$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[8^2, 3, 1]$	$1T_1, 3T_2^*, (8T_{45}^{+*})^2$		$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[8^2, 3, 1]$	$1T_1, 3T_2^*, (8T_{47}^*)^2$		$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[8^2, 3, 1]$	$1T_1, 3T_2^*, (8T_{47}^*)^2$		$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
[16, 3, 1]	$1T_1, 3T_2^*, (8T_{47}^*)^2$	$\begin{array}{c cccc} 20T^*_{1055} & 79626240 \\ 20T^+_{176} & 960 \end{array}$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
	$1T_1, 3T_1^{+*}, 16T_{63}^{+*}$	$20T_{176} - 960$ $20T_{175}^{+} - 960$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
[16, 3, 1]	111, 311, 10164	$20T_{175} - 900$ $20T_{229}^+ - 1920$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
[16, 3, 1] [16, 3, 1]	$1T_1, 3T_1^{+*}, 16T_{64}^{+*}$ $1T_1, 3T_1^{+*}, 16T_{64}^{+*}$ $1T_1, 3T_1^{+*}, 16T_{183}^{+*}$ $1T_1, 3T_1^{+*}, 16T_{184}^{+*}$ $1T_1, 3T_1^{+*}, 16T_{185}^{+*}$	223	
	$1I_1, 3I_1, 10I_{184}$	$20T_{227}^{+}$ 1920	$[20, 16, 3, 2, 1^{16}]$
[16, 3, 1]	$1I_1, 3I_1, 10I_{185}$	$20T_{220}^{+}$ 1920	$[20, 16, 3, 2, 1^{16}]$
[16, 3, 1]	$1T_1, 3T_1^{+*}, 16T_{414}^{+*}$	$20T_{267}^{+}$ 2880	$[20, 16, 3^2, 1^{16}]$
[16, 3, 1]	$1T_1, 3T_1^{+*}, 16T_{419}^{+*}$	$20T_{287}^{+}$ 3840	$[20, 16, 4, 3, 1^{16}]$
[16, 3, 1]	$1T_1, 3T_1^{+*}, 16T_{420}^{+*}$	$20T_{284}^{+}$ 3840	$[20, 16, 4, 3, 1^{16}]$
[16, 3, 1]	$1T_1, 3T_1^{+*}, 16T_{1029}^{+*}$	$20T_{453}^{+}$ 11520	$[20, 16, 4, 3^2, 1^{15}]$
[16, 3, 1]	$1T_1, 3T_1^{+*}, 16T_{1041}^{+*}$	$20T_{471}^{+*}$ 15360	$[20, 16, 4^2, 3, 1^{15}]$
[16, 3, 1]	$1T_1, 3T_1^{+*}, 16T_{1492}^{+*}$	$20T_{635}^{+}$ 46080	$[20, 16, 12, 4, 3, 1^{15}]$
[16, 3, 1]	$1T_1, 3T_1^{+*}, 16T_{1514}^{+*}$	$20T_{678}^{+*}$ 61440	$[20, 16, 4^3, 3, 1^{14}]$
[16, 3, 1]	$1T_1, 3T_1^{+*}, 16T_{1545}^{+*}$ $1T_1, 3T_1^{+*}, 16T_{1649}^{+*}$ $1T_1, 3T_1^{+*}, 16T_{1649}^{+*}$ $1T_1, 3T_1^{+*}, 16T_{1749}^{+*}$	$20T_{695}^{+}$ 61440	$[20, 16, 4^3, 3, 1^{14}]$
[16, 3, 1]	$1I_1, 3I_1, 10I_{1649}$	$20T_{753}^{+}$ 92160	$[20, 16, 12, 8, 3, 1^{15}]$
[16, 3, 1]	$1I_1, 3I_1, 10I_{1749}$	$20T_{856}^{+}$ 184320	$[20, 16, 4^3, 3^2, 1^{13}]$
[16, 3, 1]	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$20T_{858}^{+}$ 184320	$[20, 16, 12, 4^2, 3, 1^{14}]$
[16, 3, 1]	$1T_1, 3T_1, 16T_{1789}$	$20T_{912}^{+}$ 368640	[20, 16, 12, 8, 4, 3, 1 <sup>14</sup> ]
[16, 3, 1]	$1T_1, 3T_1^{+*}, 16T_{1875}^{+*}$	20T <sub>983</sub> <sup>+*</sup> 1658880	$[20, 16, 4^3, 3^4, 1^{11}]$
[16, 3, 1]	$1T_1, 3T_1^{+*}, 16T_{1875}^{+*}$	$20T_{1018}^{+*}$ 4976640	$[20, 16, 4^3, 3^5, 1^{10}]$
[16, 3, 1]	$1T_1, 3T_1^{+*}, 16T_{1904}^{+*}$	$20T_{1019}^{+}$ 4976640	$[20, 16, 12, 4^2, 3^4, 1^{11}]$
[16, 3, 1]	$1T_1, 3T_1^{+*}, 16T_{1904}^{+*}$	$20T_{1042}^{+}$ 14929920	$[20, 16, 12, 4^2, 3^5, 1^{10}]$
[16, 3, 1]	$1T_1, 3T_1^{+*}, 16T_{1918}^{+*}$	$20T_{1035}^{+}$ 9953280	$[20, 16, 12, 8, 4, 3^4, 1^{11}]$
[16, 3, 1]	$1T_1, 3T_1^{+*}, 16T_{1918}^{+*}$	$20T_{1048}^{+}$ 29859840	$[20, 16, 12, 8, 4, 3^5, 1^{10}]$
[16, 3, 1]	$1T_1, 3T_2^*, 16T_{62}^{+*}$	$20T_{173}^*$ 960	$[20, 8, 3, 2, 1^{16}]$
[16, 3, 1]	$1T_1, 3T_2^*, 16T_{194}^{+*}$	$20T_{217}$ 1920	$[20, 16, 3, 2, 1^{16}]$
[16, 3, 1]	$1T_1, 3T_2^*, 16T_{195}^{+*}$	$20T_{221}$ 1920	$[20, 16, 3, 2, 1^{16}]$
[16, 3, 1]	$1T_1, 3T_2^*, 16T_{430}^{+*}$	$20T_{273}$ 3840	$[20, 16, 3, 2^2, 1^{15}]$
[16, 3, 1]	$1T_1, 3T_2^*, 16T_{431}^{+*}$	$20T_{276}$ 3840	$[20, 16, 3, 2^2, 1^{15}]$
[16, 3, 1]	$1T_1, 3T_2^*, 16T_{432}^{+*}$	$20T_{282}^*$ 3840	$[20, 8, 4, 3, 2, 1^{15}]$
[16, 3, 1]	$1T_1, 3T_2^*, 16T_{433}^{+*}$	$20T_{274}$ 3840	$[20, 16, 3, 2^2, 1^{15}]$
	G: Possible Galois Groups, $D(G)$ :	Degrees of factors, $S(G)$ : Galois (	Groups of factors, $\mathcal{L}(G)$ : Initial Degrees
1			$\rightarrow$

D(C)	C(C)			$\mathcal{C}(C)$
D(G)	S(G)	G	1 G	$\mathcal{L}(G)$
[16, 3, 1]	$1T_1, 3T_2^*, 16T_{436}^{+*}$	$20T_{278}$	3840	$[20, 16, 3, 2^2, 1^{15}]$
[16, 3, 1]	$1T_1, 3T_2^*, 16T_{710}^{+*}$	$20T_{358}$	5760	$[20, 16, 3^2, 2, 1^{15}]$
[16, 3, 1]	$1T_1, 3T_2^*, 16T_{745}^{+*}$	$20T_{367}$	7680	$[20, 16, 4, 3, 2, 1^{15}]$
[16, 3, 1]	$1T_1, 3T_2^*, 16T_{746}^{+*}$	$20T_{376}$	7680	$[20, 16, 4, 3, 2, 1^{15}]$
[16, 3, 1]	$1T_1, 3T_2^*, 16T_{1065}^{+*}$	$20T_{472}^*$	15360	$[20, 8, 4^2, 3, 2, 1^{14}]$
[16, 3, 1]	$1T_1, 3T_2^*, 16T_{1297}^{+*}$	$20T_{532}$	23040	$[20, 16, 4, 3^2, 2, 1^{14}]$
[16, 3, 1]	$1T_1, 3T_2^*, 16T_{1300}^{+*}$	$20T^*_{559}$	30720	$[20, 16, 4^2, 3, 2, 1^{14}]$
[16, 3, 1]	$1T_1, 3T_2^*, 16T_{1529}^{+*}$	$20T_{683}^*$	61440	$[20, 8, 4^3, 3, 2, 1^{13}]$
[16, 3, 1]	$1T_1, 3T_2^*, 16T_{1650}^{+*}$	$20T_{754}$	92160	$[20, 16, 12, 4, 3, 2, 1^{14}]$
[16, 3, 1]	$1T_1, 3T_2^*, 16T_{1652}^{+*}$	$20T_{752}$	92160	$[20, 16, 12, 4, 3, 2, 1^{14}]$
[16, 3, 1]	$1T_1, 3T_2^*, 16T_{1662}^{+*}$ $1T_1, 3T_2^*, 16T_{1690}^{+*}$	$20T_{811}^*$	122880	$[20, 16, 4^3, 3, 2, 1^{13}]$
[16, 3, 1]	$1T_1, 3T_2^*, 16T_{1690}^{+*}$	$20T_{809}$	122880	$[20, 16, 4^3, 3, 2, 1^{13}]$
[16, 3, 1]	$1T_1, 3T_2^*, 16T_{1750}^{+*}$	$20T_{855}$	184320	$[20, 16, 12, 8, 3, 2, 1^{14}]$
[16, 3, 1]	$1T_1, 3T_2^*, 16T_{1790}^{+*}$	$20T_{918}$	368640	$[20, 16, 12, 4^2, 3, 2, 1^{13}]$
[16, 3, 1]	$1T_1, 3T_2^*, 16T_{1797}^{+*}$	$20T_{921}$	368640	$[20, 16, 12, 4^2, 3, 2, 1^{13}]$
[16, 3, 1]	$1T_1, 3T_2^*, 16T_{1797}^{+*}$	$20T_{922}$	368640	$[20, 16, 4^3, 3^2, 2, 1^{12}]$
[16, 3, 1]	$1T_1, 3T_2^*, 16T_{1834}^{+*}$	$20T_{950}$	737280	$[20, 16, 12, 8, 4, 3, 2, 1^{13}]$
[16, 3, 1]	$1T_1, 3T_2^*, 16T_{1875}^{+*}$	$20T_{984}^*$	1658880	$[20, 8, 4^3, 3^4, 2, 1^{10}]$
[16, 3, 1]	$1T_1, 3T_2^*, 16T_{1875}^{+*}$	$20T^*_{1017}$	4976640	$[20, 8, 4^3, 3^5, 2, 1^9]$
[16, 3, 1]	$1T_1, 3T_2^*, 16T_{1893}^{+*}$	$20T_{1005}^*$	3317760	$[20, 16, 4^3, 3^4, 2, 1^{10}]$
[16, 3, 1]	$1T_1, 3T_2^*, 16T_{1893}^{+3}$	$20T^*_{1032}$	9953280	$[20, 16, 4^3, 3^5, 2, 1^9]$
[16, 3, 1]	$1T_1, 3T_2^*, 16T_{1917}^{+*}$	$20T_{1034}$	9953280	$[20, 16, 12, 4^2, 3^4, 2, 1^{10}]$
[16, 3, 1]	$1T_1, 3T_2^*, 16T_{1917}^{+*}$	$20T_{1047}$	29859840	$[20, 16, 12, 4^2, 3^5, 2, 1^9]$
[16, 3, 1]	$1T_1, 3T_2^*, 16T_{1920}^{+*}$	$20T_{1033}$	9953280	$[20, 16, 12, 4^2, 3^4, 2, 1^{10}]$
[16, 3, 1]	$1T_1, 3T_2^*, 16T_{1920}^{+*}$	$20T_{1046}$	29859840	$[20, 16, 12, 4^2, 3^5, 2, 1^9]$
[16, 3, 1]	$1T_1, 3T_2^*, 16T_{1929}^{+*}$	$20T_{1044}$	19906560	$[20, 16, 12, 8, 4, 3^4, 2, 1^{10}]$
[16, 3, 1]	$1T_1, 3T_2^*, 16T_{1929}^{+*}$	$20T_{1054}$	59719680	$[20, 16, 12, 8, 4, 3^5, 2, 1^9]$
[16, 3, 1]	$1T_1, 3T_2^*, 16T_{1932}^*$	$20T^*_{1056}$	79626240	$[20, 16, 4^3, 3^5, 2^4, 1^6]$
[16, 3, 1]	$1T_1, 3T_2^*, 16T_{1932}^*$	$20T_{1057}^{+*}$	79626240	$[20, 16, 4^3, 3^5, 2^4, 1^6]$
[16, 3, 1]	$1T_1, 3T_2^*, 16T_{1932}^*$	$20T^*_{1067}$	159252480	$[20, 16, 4^3, 3^5, 2^5, 1^5]$
[16, 3, 1]	$1T_1, 3T_2^*, 16T_{1941}^*$	$20T_{1076}^{+}$	238878720	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
[16, 3, 1]	$1T_1, 3T_2^*, 16T_{1941}^*$	$20T_{1089}$	477757440	$[20, 16, 12, 4^2, 3^5, 2^5, 1^5]$
[16, 3, 1]	$1T_1, 3T_2^*, 16T_{1947}^*$	$20T_{1090}^{+}$	477757440	$[20, 16, 12, 8, 4, 3^5, 2^4, 1^6]$
[16, 3, 1]	$1T_1, 3T_2^*, 16T_{1947}^*$	$20T_{1091}$	477757440	$[20, 16, 12, 8, 4, 3^5, 2^4, 1^6]$
[16, 3, 1]	$1T_1, 3T_2^*, 16T_{1947}^*$	$20T_{1101}$	955514880	$ \begin{bmatrix} 20, 16, 12, 8, 4, 3^5, 2^5, 1^5 \end{bmatrix} $
$[5^3, 4, 1]$	$1T_1, 4T_1^*, (5T_3^*)^3$	$20T_{102}^*$	400	$[20, 5, 4, 1^{17}]$
$[5^3, 4, 1]$	$1T_1, 4T_1^*, (5T_3^*)^3$	$20T_{107}^{+*}$	400	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
$[5^3, 4, 1]$	$1T_1, 4T_1^*, (5T_3^*)^3$	$20T_{231}^{+*}$	2000	$[20, 5^2, 4, 1^{16}]$
$[5^3, 4, 1]$	$1T_1, 4T_1, (5T_3)$ $1T_1, 4T_1^*, (5T_3^*)^3$	$20T_{232}^*$	2000	$ \begin{bmatrix} 20, 5^2, 4, 1^{16} \end{bmatrix} $
$[5^3, 4, 1]$	$1T_1, \ T_1, \ (5T_3)$ $1T_1, \ 4T_1^*, \ (5T_3^*)^3$	$20T_{377}^{+*}$	10000	$[20, 5^3, 4, 1^{15}]$
$[5^3, 4, 1]$	$1T_1, 4T_1, (5T_3)$ $1T_1, 4T_1^*, (5T_3^*)^3$	$20T_{379}^{+*}$	10000	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[5^3, 4, 1]$	$1T_1, 4T_1, (5T_3)$ $1T_1, 4T_1^*, (5T_3^*)^3$	$20T_{379}^*$ $20T_{381}^*$	10000	$ \begin{bmatrix} 20, 5^3, 4, 1^{15} \\ \end{bmatrix} $
$[5^3, 4, 1]$	$1T_1, 4T_1, (5T_3)$ $1T_1, 4T_1^*, (5T_3^*)^3$	$20T_{381}^{+*}$ $20T_{382}^{+*}$	10000	$[20, 5^3, 4, 1^{15}]$
$[5^3, 4, 1]$	$1T_1, 4T_1, (5T_3)$ $1T_1, 4T_1^*, (5T_3^*)^3$	$20T_{382}^{+*}$ $20T_{383}^{+*}$	10000	$[20, 5^3, 4, 1^{15}]$
$[5^3, 4, 1]$	$1T_1, 4T_1, (5T_3)$ $1T_1, 4T_1^*, (5T_3^*)^3$	$20T_{383}^*$ $20T_{384}^*$	10000	$[20, 5^3, 4, 1^{-1}]$
	$  111, 41_1, (91_3)$ $G$ : Possible Galois Groups, $D(G)$ : Deg	•		
	G. 1 costote Gatots Groups, D(G): Deg	sices of facto	10, D(G). Galois Group	o of factors, $\mathcal{L}(G)$ . Thickar Degrees

Splitting table of degree 20

$ \begin{bmatrix} 5^3,  4,  1 \end{bmatrix} & 1T_1 \\ \hline [5^3,  4,  1] $	$(4T_1^*, (5T_3^*)^3)$ $(4T_1^*, (5T_3^*)^3)$	$\begin{array}{c} 20T_{385}^{+*} \\ 20T_{387}^{+*} \\ 20T_{387}^{**} \\ 20T_{390}^{**} \\ 20T_{390}^{**} \\ 20T_{393}^{+*} \\ 20T_{393}^{+*} \\ 20T_{400}^{+*} \\ 20T_{477}^{+*} \\ 20T_{478}^{+*} \\ 20T_{481}^{+*} \\ 20T_{481}^{+*} \\ 20T_{492}^{+*} \\ 20T_{492}^{+*} \\ 20T_{495}^{**} \\ 20T_{496}^{**} \\ 20T_{496}^{**} \\ 20T_{497}^{**} \\ 20T_{498}^{**} \end{array}$	$\begin{array}{c c} \mid G \mid \\ \hline 10000 \\ \hline 20000 \\ 20000 \\ \hline 20000 \\ 2$	$ \mathcal{L}(G) $ $ [20, 5^3, 4, 1^{15}] $ $ [20, 5^3, 4, 1^{15}] $ $ [20, 5^3, 4, 1^{15}] $ $ [20, 5^3, 4, 1^{15}] $ $ [20, 5^3, 4, 1^{15}] $ $ [20, 5^3, 4, 1^{15}] $ $ [20, 5^3, 4, 1^{15}] $ $ [20, 5^3, 4, 1^{15}] $ $ [20, 5^3, 4, 1^{15}] $ $ [20, 5^3, 4, 1^{15}] $ $ [20, 5^3, 4, 2, 1^{14}] $ $ [20, 5^3, 4, 2, 1^{14}] $ $ [20, 5^3, 4, 2, 1^{14}] $ $ [20, 5^3, 4, 2, 1^{14}] $ $ [20, 5^3, 4, 2, 1^{14}] $ $ [20, 5^3, 4, 2, 1^{14}] $ $ [20, 5^3, 4, 2, 1^{14}] $ $ [20, 5^3, 4, 2, 1^{14}] $ $ [20, 5^3, 4, 2, 1^{14}] $ $ [20, 5^3, 4, 2, 1^{14}] $ $ [20, 5^3, 4, 2, 1^{14}] $ $ [20, 5^3, 4, 2, 1^{14}] $ $ [20, 5^3, 4, 2, 1^{14}] $ $ [20, 5^3, 4, 2, 1^{14}] $ $ [20, 5^3, 4, 2, 1^{14}] $ $ [20, 5^3, 4, 2, 1^{14}] $
$ \begin{bmatrix} 5^3,  4,  1 \end{bmatrix} & 1T_1 \\ \hline [5^3,  4,  1] $	$(4T_1^*, (5T_3^*)^3)$	$20T_{387}^{+*}$	10000 10000 10000 10000 10000 10000 10000 20000 20000 20000 20000 20000 20000 20000 20000 20000	$ \begin{array}{c} [20,\ 5^3,\ 4,\ 1^{15}] \\ [20,\ 5^3,\ 4,\ 1^{15}] \\ [20,\ 5^3,\ 4,\ 1^{15}] \\ [20,\ 5^3,\ 4,\ 1^{15}] \\ [20,\ 5^3,\ 4,\ 1^{15}] \\ [20,\ 5^3,\ 4,\ 1^{15}] \\ [20,\ 5^3,\ 4,\ 1^{15}] \\ [20,\ 5^3,\ 4,\ 1^{15}] \\ [20,\ 5^3,\ 4,\ 2,\ 1^{14}] \\ $
$ \begin{bmatrix} 5^3, 4, 1 \\ 5^3, 4, 1 \end{bmatrix} \qquad 1T_1 \\ \hline \begin{bmatrix} 5^3, 4, 1 \\ 5^3, 4, 1 \end{bmatrix} \qquad 1T_1 \\ \hline \begin{bmatrix} 5^3, 4, 1 \\ 5^3, 4, 1 \end{bmatrix} \qquad 1T_1 \\ \hline \begin{bmatrix} 5^3, 4, 1 \\ 5^3, 4, 1 \end{bmatrix} \qquad 1T_1 \\ \hline \begin{bmatrix} 5^3, 4, 1 \\ 5^3, 4, 1 \end{bmatrix} \qquad 1T_1 \\ \hline \begin{bmatrix} 5^3, 4, 1 \\ 5^3, 4, 1 \end{bmatrix} \qquad 1T_1 \\ \hline \begin{bmatrix} 5^3, 4, 1 \\ 5^3, 4, 1 \end{bmatrix} \qquad 1T_1 \\ \hline \begin{bmatrix} 5^3, 4, 1 \\ 5^3, 4, 1 \end{bmatrix} \qquad 1T_1 \\ \hline \begin{bmatrix} 5^3, 4, 1 \\ 5^3, 4, 1 \end{bmatrix} \qquad 1T_1 \\ \hline \begin{bmatrix} 5^3, 4, 1 \\ 5^3, 4, 1 \end{bmatrix} \qquad 1T_1 \\ \hline \begin{bmatrix} 5^3, 4, 1 \\ 5^3, 4, 1 \end{bmatrix} \qquad 1T_1 \\ \hline \begin{bmatrix} 5^3, 4, 1 \\ 5^3, 4, 1 \end{bmatrix} \qquad 1T_1 \\ \hline \begin{bmatrix} 5^3, 4, 1 \\ 5^3, 4, 1 \end{bmatrix} \qquad 1T_1 \\ \hline \begin{bmatrix} 5^3, 4, 1 \\ 5^3, 4, 1 \end{bmatrix} \qquad 1T_1 \\ \hline \begin{bmatrix} 5^3, 4, 1 \\ 5^3, 4, 1 \end{bmatrix} \qquad 1T_1 \\ \hline \begin{bmatrix} 5^3, 4, 1 \\ 5^3, 4, 1 \end{bmatrix} \qquad 1T_1 \\ \hline \begin{bmatrix} 5^3, 4, 1 \\ 5^3, 4, 1 \end{bmatrix} \qquad 1T_1 \\ \hline \begin{bmatrix} 5^3, 4, 1 \\ 5^3, 4, 1 \end{bmatrix} \qquad 1T_1 \\ \hline \begin{bmatrix} 5^3, 4, 1 \\ 5^3, 4, 1 \end{bmatrix} \qquad 1T_1 \\ \hline \begin{bmatrix} 5^3, 4, 1 \\ 5^3, 4, 1 \end{bmatrix} \qquad 1T_1 \\ \hline \begin{bmatrix} 5^3, 4, 1 \\ 5^3, 4, 1 \end{bmatrix} \qquad 1T_1 \\ \hline \begin{bmatrix} 5^3, 4, 1 \\ 5^3, 4, 1 \end{bmatrix} \qquad 1T_1 \\ \hline \begin{bmatrix} 5^3, 4, 1 \\ 5^3, 4, 1 \end{bmatrix} \qquad 1T_1 \\ \hline \begin{bmatrix} 5^3, 4, 1 \\ 5^3, 4, 1 \end{bmatrix} \qquad 1T_1 \\ \hline \begin{bmatrix} 5^3, 4, 1 \\ 5^3, 4, 1 \end{bmatrix} \qquad 1T_1 \\ \hline \begin{bmatrix} 5^3, 4, 1 \\ 5^3, 4, 1 \end{bmatrix} \qquad 1T_1 \\ \hline \begin{bmatrix} 5^3, 4, 1 \\ 5^3, 4, 1 \end{bmatrix} \qquad 1T_1 \\ \hline \begin{bmatrix} 5^3, 4, 1 \\ 5^3, 4, 1 \end{bmatrix} \qquad 1T_1 \\ \hline \begin{bmatrix} 5^3, 4, 1 \\ 5^3, 4, 1 \end{bmatrix} \qquad 1T_1 \\ \hline \begin{bmatrix} 5^3, 4, 1 \\ 5^3, 4, 1 \end{bmatrix} \qquad 1T_1 \\ \hline \begin{bmatrix} 5^3, 4, 1 \\ 5^3, 4, 1 \end{bmatrix} \qquad 1T_1 \\ \hline \begin{bmatrix} 5^3, 4, 1 \\ 5^3, 4, 1 \end{bmatrix} \qquad 1T_1 \\ \hline \begin{bmatrix} 5^3, 4, 1 \\ 5^3, 4, 1 \end{bmatrix} \qquad 1T_1 \\ \hline \begin{bmatrix} 5^3, 4, 1 \\ 5^3, 4, 1 \end{bmatrix} \qquad 1T_1 \\ \hline \begin{bmatrix} 5^3, 4, 1 \\ 5^3, 4, 1 \end{bmatrix} \qquad 1T_1 \\ \hline \begin{bmatrix} 5^3, 4, 1 \\ 5^3, 4, 1 \end{bmatrix} \qquad 1T_1 \\ \hline \begin{bmatrix} 5^3, 4, 1 \\ 5^3, 4, 1 \end{bmatrix} \qquad 1T_1 \\ \hline \begin{bmatrix} 5^3, 4, 1 \\ 5^3, 4, 1 \end{bmatrix} \qquad 1T_1 \\ \hline \begin{bmatrix} 5^3, 4, 1 \\ 5^3, 4, 1 \end{bmatrix} \qquad 1T_1 \\ \hline \begin{bmatrix} 5^3, 4, 1 \\ 5^3, 4, 1 \end{bmatrix} \qquad 1T_1 \\ \hline \begin{bmatrix} 5^3, 4, 1 \\ 5^3, 4, 1 \end{bmatrix} \qquad 1T_1 \\ \hline \begin{bmatrix} 5^3, 4, 1 \\ 5^3, 4, 1 \end{bmatrix} \qquad 1T_1 \\ \hline \begin{bmatrix} 5^3, 4, 1 \\ 5^3, 4, 1 \end{bmatrix} \qquad 1T_1 \\ \hline \begin{bmatrix} 5^3, 4, 1 \\ 5^3, 4, 1 \end{bmatrix} \qquad 1T_1 \\ \hline \begin{bmatrix} 5^3, 4, 1 \\ 5^3, 4, 1 \end{bmatrix} \qquad 1T_1 \\ \hline \begin{bmatrix} 5^3, 4, 1 \\ 5^3, 4, 1 \end{bmatrix} \qquad 1T_1 \\ \hline \begin{bmatrix} 5^3, 4, 1 \\ 5^3, 4, 1 \end{bmatrix} \qquad 1T_1 \\ \hline \begin{bmatrix} 5^3, 4, 1 \\ 5^3, 4, 1 \end{bmatrix} \qquad 1T_1 \\ \hline \begin{bmatrix} 5^3, 4, 1 \\ 5^3, 4, 1 \end{bmatrix} \qquad 1T_1 \\ \hline \begin{bmatrix} 5^3, 4, 1 \\ 5^3, 4, 1 \end{bmatrix} \qquad 1T_1 \\ \hline \begin{bmatrix} 5^3, 4, 1 \\ 5^3, 4, 1 \end{bmatrix} \qquad 1T_1 \\ \hline \begin{bmatrix} 5^3, 4, 1 \\ 5^3, 4, 1 \end{bmatrix} \qquad 1T_1 \\ \hline \begin{bmatrix} 5^3, 4, 1 \\ 5^3, 4, 1 \end{bmatrix} \qquad 1T_1 \\ \hline \begin{bmatrix} 5^3, 4, 1 \\ 5^3, 4, 1 \end{bmatrix} \qquad 1T_1 \\ \hline \begin{bmatrix} 5^3, 4, 1 \\ 5^3, 4, 1 \end{bmatrix} \qquad 1T_1 \\ \hline \end{bmatrix} $	$\begin{array}{c} 1, & 17, & (37) \\ 1, & 4T_1^*, & (5T_3^*)^3 \\ 1, & $	$\begin{array}{c} 367\\ 20T_{389}^*\\ 20T_{390}^*\\ 20T_{392}^{+*}\\ 20T_{393}^{+*}\\ 20T_{490}^{+*}\\ 20T_{402}^{+*}\\ 20T_{477}^{+*}\\ 20T_{485}^{+*}\\ 20T_{485}^{+*}\\ 20T_{492}^{+*}\\ 20T_{492}^{+*}\\ 20T_{496}^{+*}\\ 20T_{496}^{+*}\\ 20T_{496}^{+*}\\ 20T_{496}^{+*}\\ 20T_{496}^{+*}\\ 20T_{496}^{+*}\\ \end{array}$	10000 10000 10000 10000 10000 10000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000	$ \begin{array}{c} [20,\ 5^3,\ 4,\ 1^{15}] \\ [20,\ 5^3,\ 4,\ 1^{15}] \\ [20,\ 5^3,\ 4,\ 1^{15}] \\ [20,\ 5^3,\ 4,\ 1^{15}] \\ [20,\ 5^3,\ 4,\ 1^{15}] \\ [20,\ 5^3,\ 4,\ 1^{15}] \\ [20,\ 5^3,\ 4,\ 1^{15}] \\ [20,\ 5^3,\ 4,\ 2,\ 1^{14}$
$ \begin{bmatrix} 5^3, \ 4, \ 1 \end{bmatrix} & 1T_1 \\ \hline [5^3, \ 4, \ 1] $	$\begin{array}{c} 1, & 1, & (3) \\ 1, & 4T_1^*, & (5T_3^*)^3 \\ 1, & 4T_1^*, & (5T_2^*)^3 \end{array}$	$\begin{array}{c} 369 \\ 20T_{390}^{*} \\ 20T_{392}^{+*} \\ 20T_{393}^{+*} \\ 20T_{393}^{+*} \\ 20T_{402}^{+*} \\ 20T_{477}^{+*} \\ 20T_{477}^{+*} \\ 20T_{481}^{+*} \\ 20T_{488}^{+*} \\ 20T_{491}^{+*} \\ 20T_{492}^{+*} \\ 20T_{492}^{+*} \\ 20T_{493}^{+*} \\ 20T_{493}^{+*} \\ 20T_{495}^{+*} \\ 20T_{496}^{+*} \\ 20T_{496}^{+*} \\ 20T_{496}^{+*} \end{array}$	10000 10000 10000 10000 10000 20000 20000 20000 20000 20000 20000 20000 20000 20000	$ \begin{array}{c} [20,\ 5^3,\ 4,\ 1^{15}] \\ [20,\ 5^3,\ 4,\ 1^{15}] \\ [20,\ 5^3,\ 4,\ 1^{15}] \\ [20,\ 5^3,\ 4,\ 1^{15}] \\ [20,\ 5^3,\ 4,\ 1^{15}] \\ [20,\ 5^3,\ 4,\ 2,\ 1^{14}] \\ [20,\ 5^3,\ 4,\ 2,$
$ \begin{bmatrix} 5^3, 4, 1 \end{bmatrix} & 1T_1 \\ [5^3, 4, 1] & 1T_1 \\ [5^3$	$\begin{array}{c} 1, \ 4T_1^*, \ (5T_3^*)^3 \\ 1, \ 4T_1^*, \ (5T_3^*)$	$\begin{array}{c} 390 \\ 20T_{392}^{+*} \\ 20T_{393}^{+*} \\ 20T_{399}^{+*} \\ 20T_{400}^{+*} \\ 20T_{477}^{+*} \\ 20T_{478}^{+*} \\ 20T_{485}^{+*} \\ 20T_{485}^{+*} \\ 20T_{492}^{+*} \\ 20T_{492}^{+*} \\ 20T_{495}^{+*} \\ 20T_{496}^{+*} \end{array}$	10000 10000 10000 10000 10000 20000 20000 20000 20000 20000 20000 20000 20000 20000	$ \begin{array}{c} [20,\ 5^3,\ 4,\ 1^{15}] \\ [20,\ 5^3,\ 4,\ 1^{15}] \\ [20,\ 5^3,\ 4,\ 1^{15}] \\ [20,\ 5^3,\ 4,\ 1^{15}] \\ [20,\ 5^3,\ 4,\ 2,\ 1^{14}] \\ [20,\ 5^3,\ 4,$
$ \begin{bmatrix} 5^3, 4, 1 \end{bmatrix} & 1T_1 \\ [5^3, 4, 1] & 1T_1 \\ [5^3$	$\begin{array}{c} (1, -1)^{2}, (-1)^{$	$20T_{392}^{+*}$ $20T_{393}^{+*}$ $20T_{399}^{+*}$ $20T_{400}^{+*}$ $20T_{477}^{+*}$ $20T_{478}^{+*}$ $20T_{485}^{+*}$ $20T_{485}^{+*}$ $20T_{492}^{+*}$ $20T_{492}^{+*}$ $20T_{495}^{+*}$ $20T_{496}^{+*}$ $20T_{496}^{+*}$	10000 10000 10000 20000 20000 20000 20000 20000 20000 20000 20000 20000	$ \begin{array}{c} [20,\ 5^3,\ 4,\ 1^{15}] \\ [20,\ 5^3,\ 4,\ 1^{15}] \\ [20,\ 5^3,\ 4,\ 1^{15}] \\ [20,\ 5^3,\ 4,\ 2,\ 1^{14}] \\ [20,\ 5^3,$
$ \begin{bmatrix} 5^3, 4, 1 \end{bmatrix} & 1T_1 \\ [5^3, 4, 1] & 1T_1 \\ [5^3$	$\begin{array}{c} 1, 4T_1^*, (5T_3^*)^3 \\ 1, 4T_1^*, (5T_3^*)^3 \\$	$20T_{393}^{+*}$ $20T_{399}^{+*}$ $20T_{400}^{+*}$ $20T_{402}^{+*}$ $20T_{477}^{+*}$ $20T_{485}^{+*}$ $20T_{485}^{+*}$ $20T_{491}^{+*}$ $20T_{495}^{+*}$ $20T_{495}^{+*}$ $20T_{496}^{+*}$ $20T_{496}^{+*}$	10000 10000 10000 20000 20000 20000 20000 20000 20000 20000 20000	$ \begin{array}{c} [20,\ 5^3,\ 4,\ 1^{15}] \\ [20,\ 5^3,\ 4,\ 1^{15}] \\ [20,\ 5^3,\ 4,\ 1^{15}] \\ [20,\ 5^3,\ 4,\ 2,\ 1^{14}] \\ [20,\ 5^3,$
$ \begin{bmatrix} 5^3, \ 4, \ 1 \end{bmatrix} & 1T_1 \\ \hline \end{bmatrix} $	$\begin{array}{c} 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, $	$20T_{400}^{+*}$ $20T_{400}^{+*}$ $20T_{402}^{+*}$ $20T_{477}^{+*}$ $20T_{478}^{+*}$ $20T_{481}^{+*}$ $20T_{485}^{+*}$ $20T_{491}^{+*}$ $20T_{492}^{+*}$ $20T_{495}^{+*}$ $20T_{496}^{+*}$ $20T_{496}^{+*}$	10000 10000 20000 20000 20000 20000 20000 20000 20000 20000 20000	$ \begin{array}{c} [20,\ 5^3,\ 4,\ 1^{15}] \\ [20,\ 5^3,\ 4,\ 1^{15}] \\ [20,\ 5^3,\ 4,\ 2,\ 1^{14}] \\ [20,\ $
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, $	$20T_{402}^{+*}$ $20T_{402}^{+*}$ $20T_{477}^{+*}$ $20T_{481}^{+*}$ $20T_{485}^{+*}$ $20T_{488}^{+*}$ $20T_{491}^{+*}$ $20T_{492}^{+*}$ $20T_{495}^{+*}$ $20T_{496}^{+*}$ $20T_{496}^{+*}$	10000 20000 20000 20000 20000 20000 20000 20000 20000	$ [20, 5^{3}, 4, 1^{15}] $ $ [20, 5^{3}, 4, 2, 1^{14}] $ $ [20, 5^{3}, 4, 2, 1^{14}] $ $ [20, 5^{3}, 4, 2, 1^{14}] $ $ [20, 5^{3}, 4, 2, 1^{14}] $ $ [20, 5^{3}, 4, 2, 1^{14}] $ $ [20, 5^{3}, 4, 2, 1^{14}] $ $ [20, 5^{3}, 4, 2, 1^{14}] $ $ [20, 5^{3}, 4, 2, 1^{14}] $ $ [20, 5^{3}, 4, 2, 1^{14}] $ $ [20, 5^{3}, 4, 2, 1^{14}] $
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} 1, 11, (57_3) \\ 1, 4T_1^*, (5T_3^*)^3 \\ 1, 4T_1^*, (5T_2^*)^3 \\ 1, 4T_1^*, (5T_2^*)^3 \end{array}$	$20T_{477}^{+*}$ $20T_{478}^{+*}$ $20T_{481}^{+*}$ $20T_{485}^{+*}$ $20T_{488}^{+*}$ $20T_{491}^{+*}$ $20T_{492}^{+*}$ $20T_{496}^{+*}$ $20T_{496}^{+*}$	20000 20000 20000 20000 20000 20000 20000 20000	$ \begin{bmatrix} 20, \ 5^3, \ 4, \ 2, \ 1^{14} \end{bmatrix} $ $ \begin{bmatrix} 20, \ 5^3, \ 4, \ 2, \ 1^{14} \end{bmatrix} $ $ \begin{bmatrix} 20, \ 5^3, \ 4, \ 2, \ 1^{14} \end{bmatrix} $ $ \begin{bmatrix} 20, \ 5^3, \ 4, \ 2, \ 1^{14} \end{bmatrix} $ $ \begin{bmatrix} 20, \ 5^3, \ 4, \ 2, \ 1^{14} \end{bmatrix} $ $ \begin{bmatrix} 20, \ 5^3, \ 4, \ 2, \ 1^{14} \end{bmatrix} $ $ \begin{bmatrix} 20, \ 5^3, \ 4, \ 2, \ 1^{14} \end{bmatrix} $ $ \begin{bmatrix} 20, \ 5^3, \ 4, \ 2, \ 1^{14} \end{bmatrix} $ $ \begin{bmatrix} 20, \ 5^3, \ 4, \ 2, \ 1^{14} \end{bmatrix} $
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} 1, \ 17, \ (57_3^*)^3 \\ 1, \ 4T_1^*, \ (5T_3^*)^3 \\ 1, \ 4T_1^*, \ (5T_2^*)^3 \end{array}$	$20T_{477}^{+*}$ $20T_{478}^{+*}$ $20T_{481}^{+*}$ $20T_{485}^{+*}$ $20T_{485}^{+*}$ $20T_{491}^{+*}$ $20T_{492}^{+*}$ $20T_{495}^{+*}$ $20T_{496}^{+*}$ $20T_{496}^{+*}$	20000 20000 20000 20000 20000 20000 20000	$ [20, 5^{3}, 4, 2, 1^{14}] $ $ [20, 5^{3}, 4, 2, 1^{14}] $ $ [20, 5^{3}, 4, 2, 1^{14}] $ $ [20, 5^{3}, 4, 2, 1^{14}] $ $ [20, 5^{3}, 4, 2, 1^{14}] $ $ [20, 5^{3}, 4, 2, 1^{14}] $ $ [20, 5^{3}, 4, 2, 1^{14}] $ $ [20, 5^{3}, 4, 2, 1^{14}] $
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} 1,  4T_1,  (5T_3)^3 \\ 1,  4T_1^*,  (5T_3^*)^3 \end{array}$	$20T_{481}^{+78}$ $20T_{481}^{+*}$ $20T_{485}^{+*}$ $20T_{485}^{+*}$ $20T_{491}^{+*}$ $20T_{492}^{+*}$ $20T_{495}^{+*}$ $20T_{496}^{+*}$ $20T_{496}^{+*}$	20000 20000 20000 20000 20000 20000	$   \begin{bmatrix}     20, 5^3, 4, 2, 1^{14} \\     \hline     $
$ \begin{bmatrix} 5^3, \ 4, \ 1 \end{bmatrix} & 1T_1 \\ [5^3, \ 4, \ 1] $	$\begin{array}{c} 1,  4T_1,  (5T_3)^3 \\ 1,  4T_1^*,  (5T_3^*)^3 \\ 1,  4T_1^*,  (5T_2^*)^3 \end{array}$	$20T_{485}^{+*}$ $20T_{485}^{+*}$ $20T_{488}^{+*}$ $20T_{491}^{+*}$ $20T_{492}^{+*}$ $20T_{495}^{+*}$ $20T_{496}^{+*}$ $20T_{496}^{+*}$	20000 20000 20000 20000 20000	$   \begin{bmatrix}     20, 5^3, 4, 2, 1^{14} \\     \hline     $
$ \begin{bmatrix} 5^3, \ 4, \ 1 \end{bmatrix} & 1T_1 \\ [5^3, \ 4, \ 1] $	$(1, 4T_1, (5T_3))$ $(1, 4T_1^*, (5T_3^*)^3)$ $(1, 4T_1^*, (5T_2^*)^3)$	$20T_{485}^{+*}$ $20T_{488}^{+*}$ $20T_{491}^{+*}$ $20T_{492}^{+*}$ $20T_{496}^{**}$ $20T_{496}^{+*}$ $20T_{496}^{+*}$	20000 20000 20000 20000	$   \begin{bmatrix}     20, 5^3, 4, 2, 1^{14} \\     \hline     $
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$(1, 4T_1, (5T_3))$ $(1, 4T_1^*, (5T_3^*)^3)$ $(1, 4T_1^*, (5T_2^*)^3)$	$\begin{array}{c} 20T_{488} \\ 20T_{491}^{+*} \\ 20T_{492}^{+*} \\ 20T_{495}^{*} \\ 20T_{496}^{+*} \\ 20T_{497}^{+*} \end{array}$	20000 20000 20000	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	1, $4T_1$ , $(5T_3)$ 1, $4T_1^*$ , $(5T_3^*)^3$ 1, $4T_1^*$ , $(5T_3^*)^3$ 1, $4T_1^*$ , $(5T_3^*)^3$ 1, $4T_1^*$ , $(5T_3^*)^3$ 1, $4T_1^*$ , $(5T_2^*)^3$	$ \begin{array}{c} 20T_{491} \\ 20T_{492}^{+*} \\ 20T_{495}^{*} \\ 20T_{496}^{+*} \\ 20T_{497}^{+*} \end{array} $	20000 20000	$   \begin{bmatrix}     20, 5^3, 4, 2, 1^{14} \\     20, 5^3, 4, 2, 1^{14}   \end{bmatrix} $
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$(1, 4T_1, (5T_3)^2)$ $(1, 4T_1^*, (5T_3^*)^3)$ $(1, 4T_1^*, (5T_3^*)^3)$ $(1, 4T_1^*, (5T_3^*)^3)$ $(1, 4T_1^*, (5T_2^*)^3)$	$ \begin{array}{c} 20T_{492} \\ 20T_{495}^* \\ 20T_{496}^{+*} \\ 20T_{497}^{+*} \end{array} $	20000	$[20, 5^3, 4, 2, 1^{14}]$
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{bmatrix} 1, 4T_1, (5T_3)^5 \\ 1, 4T_1^*, (5T_3^*)^3 \\ 1, 4T_1^*, (5T_3^*)^3 \end{bmatrix}$ $\begin{bmatrix} 1, 4T_1^*, (5T_2^*)^3 \end{bmatrix}$	$20T_{495}^{+*}$ $20T_{496}^{+*}$ $20T_{497}^{+*}$		[20, 3°, 4, 2, 1°]
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{pmatrix} 4I_1, & (5I_3)^6 \\ 4T_1^*, & (5T_3^*)^3 \\ 4T_1^*, & (5T_2^*)^3 \end{pmatrix}$	$20T_{496}$ $20T_{497}^{+*}$		100 50 4 6 1141
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$(5T_3^*)^6$ $(5T_2^*)^3$	201 407	20000	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$(51^{\circ})^{\circ}$	497	20000	[20, 5°, 4, 2, 111]
$ \begin{bmatrix} 5^3, 4, 1 \end{bmatrix} & 1T_1 \\ [5^3, 4, 1] & 1T_1 \\ \end{bmatrix} $	1/ (* 3/	201498	20000	[20, 5°, 4, 2, 111]
$\begin{bmatrix} 5^3, 4, 1 \end{bmatrix}$ $1T_1$ $\begin{bmatrix} 5^3, 4, 1 \end{bmatrix}$ $1T_1$ $\begin{bmatrix} 5^3, 4, 1 \end{bmatrix}$ $1T_1$ $\begin{bmatrix} 5^3, 4, 1 \end{bmatrix}$ $1T_1$	$4T_1^*, (5T_3^*)^3$	$20T_{499}^{*}  20T_{501}^{+*}$	20000	$[20, 5^3, 4, 2, 1^{14}]$
$\begin{bmatrix} 5^3, \ 4, \ 1 \end{bmatrix}$ $1T_1$ $\begin{bmatrix} 5^3, \ 4, \ 1 \end{bmatrix}$ $1T_1$ $\begin{bmatrix} 5^3, \ 4, \ 1 \end{bmatrix}$ $1T_1$	$4T_1^*, (5T_3^*)^3$	207 501	20000	$[20, 5^3, 4, 2, 1^{14}]$
$\begin{bmatrix} 5^3, 4, 1 \end{bmatrix} \qquad \begin{bmatrix} 1T_1 \\ 5^3, 4, 1 \end{bmatrix} \qquad 1T_1$	$4T_1^*, (5T_3^*)^3$	$20T_{502}^{+*} 20T_{504}^{+*}$	20000	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
$[5^3, 4, 1]$ $1T_1$	$4T_1^*, (5T_3^*)^3$	$207_{504}^{+*}$	20000	$[20, 5^3, 4, 2, 1^{14}]$
$[5^{\circ}, 4, 1]$ $[1T_1]$	$4T_1^*, (5T_3^*)^3$	$\begin{array}{c} 20T_{504}^{+} \\ 20T_{507}^{+} \\ 20T_{508}^{*} \\ 20T_{575}^{*} \\ 20T_{579}^{+*} \\ 20T_{581}^{+*} \\ 20T_{582}^{*} \\ 20T_{582}^{+*} \\ \end{array}$	20000	$[20, 5^3, 4, 2, 1^{14}]$
F9	$4T_1^*, (5T_3^*)^3$	$207^*_{508}$	20000	$[20, 5^3, 4, 2, 1^{14}]$
$[5^3, 4, 1]$ $1T_1$	$(5T_3^*)^3$	$207^{*}_{575}$	40000	$[20, 5^3, 4^2, 1^{14}]$
$[5^3, 4, 1]$ $1T_1$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$20T_{579}^{+*}$	40000	$[20, 5^3, 4, 2^2, 1^{13}]$
$[5^3, 4, 1]$ $1T_1$	$(5T_3^*)^3$	$20T_{581}^{+*}$	40000	$[20, 5^3, 4, 2^2, 1^{13}]$
$[5^3, 4, 1]$ $[1T_1]$	$4T_1^*, (5T_3^*)^3$	$20T_{582}^*$	40000	$[20, 5^3, 4^2, 1^{14}]$
$[5^3, 4, 1]$ $1T_1$	$(4T_1^*, (5T_3^*)^3)$	$20T_{585}^{+*}$	40000	$[20, 5^3, 4^2, 1^{14}]$
$[5^3, 4, 1]$ $1T_1$	$(91_3)$	$^{201}_{586}$	40000	$[20, 5^3, 4, 2^2, 1^{13}]$
$[5^3, 4, 1]$ $1T_1$	$4T_1^*, (5T_3^*)^3$	$20T_{590}^{+*}$	40000	$[20, 5^3, 4, 2^2, 1^{13}]$
$[5^3, 4, 1]$ $1T_1$	$(5T_3^*, (5T_3^*)^3)$	$20T_{593}^{+*}$	40000	$[20, 5^3, 4, 2^2, 1^{13}]$
$[5^3, 4, 1]$ $1T_1$	$4T_1^*, (5T_3^*)^3$	$20T_{594}^{+*}$	40000	$[20, 5^3, 4, 2^2, 1^{13}]$
$[5^3, 4, 1]$ $1T_1$	$(5T_3^*, (5T_3^*)^3)$	$20T_{596}^{+*}$	40000	$[20, 5^3, 4, 2^2, 1^{13}]$
$[5^3, 4, 1]$ $1T_1$	$(5T_1^*, 4T_1^*, (5T_3^*)^3)$	$20T_{597}^{+*}$	40000	$[20, 5^3, 4^2, 1^{14}]$
$[5^3, 4, 1]$ $1T_1$	$(5T_3^*, (5T_3^*)^3)$	$20T_{598}^*$	40000	$[20, 5^3, 4, 2^2, 1^{13}]$
$[5^3, 4, 1]$ $1T_1$	$(5T_1^*, (5T_3^*)^3)$	$20T_{599}^{+*}$	40000	$[20, 5^3, 4, 2^2, 1^{13}]$
$[5^3, 4, 1]$ $1T_1$	$(5T_1^*, (5T_3^*)^3)$	$20T_{601}^*$	40000	$[20, 5^3, 4, 2^2, 1^{13}]$
$[5^3, 4, 1]$ $1T_1$	$(5T_3^*)^3$	$20T_{603}^{+*}$	40000	$[20, 5^3, 4^2, 1^{14}]$
	$(5T_1^*, (5T_3^*)^3)$	$20T_{604}^{+*}$	40000	$[20, 5^3, 4, 2^2, 1^{13}]$
	$(5T_1^*, (5T_3^*)^3)$	$20T_{605}^{+*}$	40000	$[20, 5^3, 4, 2^2, 1^{13}]$
	$(4T_1^*, (5T_3^*)^3)$	$20T_{607}^{+*}$	40000	$[20, 5^3, 4, 2^2, 1^{13}]$
$[5^3, 4, 1]$ $1T_1$	$(4T_1^*, (5T_3^*)^3)$	$20T_{610}^{+*}$	40000	$[20, 5^3, 4, 2^2, 1^{13}]$
	, 41 <sub>1</sub> , (01 <sub>2</sub> )			s of factors, $\mathcal{L}(G)$ : Initial Degrees

Splitting table of degree 20

D(G)	S(G)	$G \qquad  G $	$\mathcal{L}(G)$
$[5^3, 4, 1]$	$1T_1, 4T_1^*, (5T_3^*)^3$	$20T_{611}^{+*}$ 40000	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[5^3, 4, 1]$ $[5^3, 4, 1]$	$1T_1, 4T_1, (5T_3)$ $1T_1, 4T_1^*, (5T_3^*)^3$	$20T_{616}^{+*}$ $40000$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[5^3, 4, 1]$	$1T_1, 4T_1, (5T_3)$ $1T_1, 4T_1^*, (5T_3^*)^3$	$20T_{619}^{+*}$ $40000$	$[20, 5^{3}, 4^{2}, 1^{14}]$ $[20, 5^{3}, 4^{2}, 1^{14}]$
$[5^3, 4, 1]$	$1T_1, 4T_1, (5T_3)$ $1T_1, 4T_1^*, (5T_3^*)^3$	$\begin{array}{c} 20T_{611}^{+*} & 40000 \\ 20T_{616}^{+*} & 40000 \\ 20T_{619}^{+*} & 40000 \\ 20T_{620}^{**} & 40000 \\ 20T_{621}^{**} & 40000 \\ \end{array}$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[5^3, 4, 1]$	$1T_1, 4T_1, (5T_3)$ $1T_1, 4T_1^*, (5T_3^*)^3$	$20T_{620}^{+*}$ $40000$	$ \begin{bmatrix} 20, 5, 4, 1 \\ 20, 5^3, 4, 2^2, 1^{13} \end{bmatrix} $
$[5^3, 4, 1]$	$1T_1, 4T_1, (5T_3)$ $1T_1, 4T_1^*, (5T_3^*)^3$	$20T_{622}^*$ $40000$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[5^3, 4, 1]$	$1T_1, 4T_1, (5T_3)$ $1T_1, 4T_1^*, (5T_3^*)^3$	$20T_{622}^*$ $40000$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[5^3, 4, 1]$	$1T_1, 4T_1^*, (5T_3^*)^3$	$20T_{626}^{+*}$ 40000	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[5^3, 4, 1]$	$1T_1, 4T_1^*, (5T_3^*)^3$	$20T_{626}^*$ $40000$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[5^3, 4, 1]$	$1T_1, 4T_1^*, (5T_3^*)^3$	$20T_{628}^{+*}$ 40000	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[5^3, 4, 1]$	$1T_1, 4T_1^*, (5T_3^*)^3$	$20T_{629}^{+*}$ 40000	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[5^3, 4, 1]$	$1T_1, 4T_1^*, (5T_3^*)^3$	$20T_{630}^{+*}$ 40000	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[5^3, 4, 1]$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$20T_{699}^{+*}$ 80000	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[5^3, 4, 1]$	$1T_1, 4T_1^*, (5T_3^*)^3$	$20T_{702}^{+*}$ 80000	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[5^3, 4, 1]$	$1T_1, 4T_1^*, (5T_3^*)^3$	$\begin{array}{cccc} 20T_{622}^* & 40000 \\ 20T_{623}^* & 40000 \\ 20T_{626}^{+*} & 40000 \\ 20T_{627}^{+*} & 40000 \\ 20T_{628}^{+*} & 40000 \\ 20T_{629}^{+*} & 40000 \\ 20T_{630}^{+*} & 40000 \\ 20T_{630}^{+*} & 80000 \\ 20T_{702}^{+*} & 80000 \\ 20T_{704}^{+*} & 80000 \\ \end{array}$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[5^3, 4, 1]$	$1T_1, 4T_1^*, (5T_3^*)^3$	$20T_{706}^*$ 80000	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[5^3, 4, 1]$	$1T_1, 4T_1^*, (5T_3^*)^3$	$20T_{707}^*$ 80000	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[5^3, 4, 1]$	$1T_1, 4T_1^*, (5T_3^*)^3$	$20T_{708}^{+*}$ 80000	$[20, 5^3, 4^2, 2, 1^{13}]$
$[5^3, 4, 1]$	$1T_1, 4T_1^*, (5T_3^*)^3$	$\begin{array}{c cc} 20T_{708}^{+*} & 80000 \\ 20T_{709}^{+*} & 80000 \end{array}$	$[20, 5^3, 4^2, 2, 1^{13}]$
$[5^3, 4, 1]$	$1T_1, 4T_1^*, (5T_3^*)^3$	$20T_{710}^*$ 80000	$[20, 5^3, 4^2, 2, 1^{13}]$
$[5^3, 4, 1]$	$1T_1, 4T_1^*, (5T_3^*)^3$	$20T_{712}^{+*}$ 80000	$[20, 5^3, 4^2, 2, 1^{13}]$
$[5^3, 4, 1]$	$1T_1, 4T_1^*, (5T_3^*)^3$	$20T_{720}^{+*}$ 80000	$[20, 5^3, 4^2, 2, 1^{13}]$
$[5^3, 4, 1]$	$1T_1, 4T_1^*, (5T_3^*)^3$	$20T_{-*}^{+*}$ 80000	$[20, 5^3, 4^2, 2, 1^{13}]$
$[5^3, 4, 1]$	$1T_1, 4T_1^*, (5T_3^*)^3$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$[20, 5^3, 4, 2^3, 1^{12}]$
$[5^3, 4, 1]$	$1T_1, 4T_1^*, (5T_3^*)^3$	2077728 80000	$[20, 5^3, 4, 2^3, 1^{12}]$
$[5^3, 4, 1]$	$1T_1, 4T_1^*, (5T_3^*)^3$	$20T_{729}^{+*}$ 80000	$[20, 5^3, 4^2, 2, 1^{13}]$
$[5^3, 4, 1]$	$1T_1, 4T_1^*, (5T_3^*)^3$	$20T_{730}^{+*}$ 80000	$[20, 5^3, 4^2, 2, 1^{13}]$
$[5^3, 4, 1]$	$1T_1, 4T_1^*, (5T_3^*)^3$	207+* 80000	$[20, 5^3, 4, 2^3, 1^{12}]$
$[5^3, 4, 1]$	$1T_1, 4T_1^*, (5T_3^*)^3$	20T <sub>734</sub> 80000	$[20, 5^3, 4^2, 2, 1^{13}]$
$[5^3, 4, 1]$	$1T_1, 4T_1^*, (5T_3^*)^3$	207735 80000	$[20, 5^3, 4, 2^3, 1^{12}]$
$[5^3, 4, 1]$	$1T_1, 4T_1^*, (5T_3^*)^3$	$\begin{array}{c cc} 20T_{736}^{+*} & 80000 \\ 20T_{741}^{+*} & 80000 \end{array}$	$[20, 5^3, 4^2, 2, 1^{13}]$
$[5^3, 4, 1]$	$1T_1, 4T_1^*, (5T_3^*)^3$	$20T_{741}^{+*}$ 80000	$[20, 5^3, 4^2, 2, 1^{13}]$
$[5^3, 4, 1]$	$1T_1, 4T_1^*, (5T_3^*)^3$	$20T_{742}^{+*}$ 80000	$[20, 5^3, 4^2, 2, 1^{13}]$
$[5^3, 4, 1]$	$1T_1, 4T_1^*, (5T_3^*)^3$	$20T_{743}^{+*}$ 80000	$[20, 5^3, 4, 2^3, 1^{12}]$
$[5^3, 4, 1]$	$1T_1, 4T_1^*, (5T_3^*)^3$	$20T_{744}^{+*}$ 80000	$[20, 5^3, 4^2, 2, 1^{13}]$
$[5^3, 4, 1]$	$1T_1, 4T_1^*, (5T_3^*)^3$	$20T_{814}^{+*}$ 160000	$[20, 5^3, 4^2, 2^2, 1^{12}]$
$[5^3, 4, 1]$	$1T_1, 4T_1^*, (5T_3^*)^3$	$20T_{815}^{+*}$ 160000	$[20, 5^3, 4^3, 1^{13}]$
$[5^3, 4, 1]$	$1T_1, 4T_1^*, (5T_3^*)^3$	$20T_{816}^*$ 160000	$[20, 5^3, 4^2, 2^2, 1^{12}]$
$[5^3, 4, 1]$	$1T_1, 4T_1^*, (5T_3^*)^3$	$20T_{818}^*$ 160000	$[20, 5^3, 4^3, 1^{13}]$
$[5^3, 4, 1]$	$1T_1, 4T_1^*, (5T_3^*)^3$	$20T_{820}^*$ 160000	$[20, 5^3, 4^3, 1^{13}]$
$[5^3, 4, 1]$	$1T_1, 4T_1^*, (5T_3^*)^3$	$20T_{823}^{+*}$ 160000	$[20, 5^3, 4^3, 1^{13}]$
$[5^3, 4, 1]$	$1T_1, 4T_1^*, (5T_3^*)^3$	$20T_{825}^*$ 160000	$[20, 5^3, 4^3, 1^{13}]$
$[5^3, 4, 1]$	$1T_1, 4T_1^*, (5T_3^*)^3$	$20T_{827}^{+*}$ 160000	$[20, 5^3, 4^3, 1^{13}]$
$[5^3, 4, 1]$	$1T_1, 4T_1^*, (5T_3^*)^3$	$20T_{828}^*$ 160000	$[20, 5^3, 4^3, 1^{13}]$
$[5^3, 4, 1]$	$1T_1, 4T_1^*, (5T_3^*)^3$	$20T_{834}^{+*}$ 160000	$[20, 5^3, 4^2, 2^2, 1^{12}]$
	$G$ : Possible Galois Groups, $\overline{D(G)}$ :	Degrees of factors, $S(G)$ : Galois G	roups of factors, $\mathcal{L}(G)$ : Initial Degrees
1			

Splitting table of degree 20

D(G)	S(G)	G	G	$\mathcal{L}(G)$
$[5^3, 4, 1]$	$1T_1, 4T_1^*, (5T_3^*)^3$	$20T_{836}^{+*}$	160000	$[20, 5^3, 4^3, 1^{13}]$
$[5^3, 4, 1]$	$1T_1, 4T_1^*, (5T_3^*)^3$	$20T_{227}^{+*}$	160000	$[20, 5^3, 4^3, 1^{13}]$
$[5^3, 4, 1]$	$1T_1, 4T_1^*, (5T_3^*)^3$	$20T_{840}^{*}$ $20T_{841}^{+*}$ $20T_{843}^{+*}$ $20T_{893}^{+*}$	160000	$[20, 5^3, 4^3, 1^{13}]$
$[5^3, 4, 1]$	$1T_1, 4T_1^*, (5T_3^*)^3$	$20T_{841}^{+*}$	160000	$[20, 5^3, 4^3, 1^{13}]$
$[5^3, 4, 1]$	$1T_1, 4T_1^*, (5T_3^*)^3$	$20T_{942}^{+*}$	160000	$[20, 5^3, 4^2, 2^2, 1^{12}]$
$[5^3, 4, 1]$	$1T_1, 4T_1^*, (5T_3^*)^3$	$20T_{202}^{+*}$	320000	$\begin{bmatrix} 20, 5^3, 4^3, 2, 1^{12} \end{bmatrix}$
$[5^3, 4, 1]$	$1T_1, 4T_1^*, (5T_3^*)^3$	$20T_{897}^*$	320000	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[5^3, 4, 1]$	$1T_1, 4T_1^*, (5T_3^*)^3$	$20T_{899}^*$	320000	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$[5^3, 4, 1]$	$1T_1, 4T_1^*, (5T_3^*)^3$	$20T_{902}^{+*}$	320000	$ \begin{bmatrix} 20, 5^3, 4^3, 2, 1^{12} \end{bmatrix} $
$[5^3, 4, 1]$	$1T_1, 4T_1^*, (5T_3^*)^3$	$20T_{944}^*$	640000	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
$[5^3, 4, 1]$	$1T_1, 4T_1^*, (5T_3^*)^3$	$20T_{945}^*$	640000	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
$[5^3, 4, 1]$	$1T_1, 4T_4^{+*}, (5T_4^+)^3$	$20T_{1052}$	51840000	$[20, 5^3, 4^4, 3^4, 1^8]$
$[5^3, 4, 1]$ $[5^3, 4, 1]$	$1T_1, 4T_4, (5T_4)$ $1T_1, 4T_4^{+*}, (5T_4^+)^3$	$20T_{1053}^{+}$ $20T_{1053}^{+}$	51840000	$ \begin{bmatrix} 20, 5^3, 4^4, 3^4, 1^8 \end{bmatrix} $
$[5^3, 4, 1]$ $[5^3, 4, 1]$	111, 414, (914) $1T, 4T* (5T.)^3$	$\frac{201_{1053}}{20T^{+}}$	103680000	$ \begin{bmatrix} 20, 5^3, 4^4, 3^4, 2, 1^7 \end{bmatrix} $
	$1T_1, 4T_5^*, (5T_5)^3$	$20T_{1059}^{+}$	103680000	$ \begin{bmatrix} 20, 5, 4, 3, 2, 1 \\ 20, 5^3, 4^4, 3^4, 2, 1^7 \end{bmatrix} $
$[5^3, 4, 1]$	$1T_1, 4T_5^*, (5T_5)^3$	$20T_{1061}$		[20, 5, 4, 5, 2, 1]
$[5^3, 4, 1]$	$1T_1, 4T_5^*, (5T_5)^3$	$20T_{1062}^{+} \\ 20T_{1063}^{+}$	103680000	$[20, 5^3, 4^4, 3^4, 2, 1^7]$
$[5^3, 4, 1]$	$1T_1, 4T_5^*, (5T_5)^3$	$20T_{1063}$	103680000	$[20, 5^3, 4^4, 3^4, 2, 1^7]$
$[5^3, 4, 1]$	$1T_1, 4T_5^*, (5T_5)^3$	$20T_{1064}^{+}$	103680000	$[20, 5^3, 4^4, 3^4, 2, 1^7]$
$[5^3, 4, 1]$	$1T_1, 4T_5^*, (5T_5)^3$	$20T_{1065}^{+}$	103680000	$[20, 5^3, 4^4, 3^4, 2, 1^7]$
$[5^3, 4, 1]$	$1T_1, 4T_5^*, (5T_5)^3$	$20T_{1069}^{+}$	207360000	$[20, 5^3, 4^4, 3^4, 2^2, 1^6]$
$[5^3, 4, 1]$	$1T_1, 4T_5^*, (5T_5)^3$	$20T_{1070}$	207360000	$[20, 5^3, 4^4, 3^4, 2^2, 1^6]$
$[5^3, 4, 1]$	$1T_1, 4T_5^*, (5T_5)^3$	$20T_{1071}^{+}$	207360000	$[20, 5^3, 4^4, 3^4, 2^2, 1^6]$
$[5^3, 4, 1]$	$1T_1, 4T_5^*, (5T_5)^3$	$20T_{1074}^{+}$	207360000	$[20, 5^3, 4^4, 3^4, 2^2, 1^6]$
$[5^3, 4, 1]$	$1T_1, 4T_5^*, (5T_5)^3$	$20T_{1084}^{+}$	414720000	$[20, 5^3, 4^4, 3^4, 2^3, 1^5]$
$[5^3, 4, 1]$	$1T_1, 4T_5^*, (5T_5)^3$	$20T_{1085}$	414720000	$[20, 5^3, 4^4, 3^4, 2^3, 1^5]$
$[5^3, 4, 1]$	$1T_1, 4T_5^*, (5T_5)^3$	$20T_{1086}$	414720000	$[20, 5^3, 4^4, 3^4, 2^3, 1^5]$
$[5^3, 4, 1]$	$1T_1, 4T_5^*, (5T_5)^3$	$20T_{1087}^{+}  20T_{1095}$	414720000	$[20, 5^3, 4^4, 3^4, 2^3, 1^5]$
$[5^3, 4, 1]$	$1T_1, 4T_5^*, (5T_5)^3$	$20T_{1095}$	829440000	$[20, 5^3, 4^4, 3^4, 2^4, 1^4]$
$[5^3, 4, 1]$	$1T_1, 4T_5^*, (5T_5)^3$	$20T_{1000}$	829440000	$[20, 5^3, 4^4, 3^4, 2^4, 1^4]$
[10, 5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*, 10T_5^*$	$20T_{169}^*$	800	$[20, 10, 4, 1^{17}]$
[10, 5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*, 10T_9^*$	$20T_{484}^*$	20000	$[20, 5^3, 4, 2, 1^{14}]$
[10, 5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*, 10T_9^*$	$ \begin{array}{c} 20T_{169}^* \\ 20T_{484}^* \\ 20T_{487}^* \end{array} $	20000	$[20, 5^3, 4, 2, 1^{14}]$
[10, 5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*, 10T_{10}^*$	$20T_{235}^*$	2000	$[20, 5^2, 4, 1^{16}]$
[10, 5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*, 10T_{10}^*$	$20T_{236}^*$	2000	$[20, 5^2, 4, 1^{16}]$
[10, 5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*, 10T_{10}^*$	$20T_{388}^*$	10000	$[20, 5^3, 4, 1^{15}]$
[10, 5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*, 10T_{10}^*$	$20T_{394}^*$	10000	$[20, 5^3, 4, 1^{15}]$
[10, 5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*, 10T_{10}^*$	$20T_{397}^*$	10000	$[20, 5^3, 4, 1^{15}]$
[10, 5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*, 10T_{10}^*$	$20T_{401}^*$	10000	$[20, 5^3, 4, 1^{15}]$
[10, 5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*, 10T_{10}^*$	$20T_{494}^{*}$	20000	$[20, 5^3, 4, 2, 1^{14}]$
[10, 5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*, 10T_{10}^*$	$20T_{505}^{*}$	20000	$[20, 5^3, 4, 2, 1^{14}]$
[10, 5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*, 10T_{17}^*$	$20T_{292}^*$	4000	$[20, 10, 5, 4, 1^{16}]$
[10, 5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*, 10T_{17}^*$	$20T_{474}^*$	20000	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
	$1T_1, 4T_1^*, 5T_3^*, 10T_{17}^*$	$20T_{480}^*$	20000	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
		- 480		
[10, 5, 4, 1]		$20T_{499}^{*}$	20000	$[20, 10, 5^2, 4, 1^{15}]$
	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c} 20T_{482}^* \\ 20T_{483}^* \end{array} $	20000 20000	$   \begin{bmatrix}     20, 10, 5^2, 4, 1^{15} \\     \hline     20, 10, 5^2, 4, 1^{15} \\     \end{bmatrix} $

D(G)	S(G)	$G \qquad  G $	$\mathcal{L}(G)$
[10, 5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*, 10T_{17}^*$	$20T_{490}^*$ 20000	$[20, 10, 5^2, 4, 1^{15}]$
[10, 5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*, 10T_{17}^*$	$20T_{493}^*$ 20000	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
[10, 5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*, 10T_{17}^*$	$20T_{503}^*$ $20000$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
[10, 5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*, 10T_{17}^*$	$20T_{509}^*$ 20000	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
[10, 5, 4, 1]	$1T_1, 4T_1, 5T_3, 10T_{17}$ $1T_1, 4T_1^*, 5T_3^*, 10T_{17}^*$	$20T_{578}^*$ $40000$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
[10, 5, 4, 1]	$1T_1, 4T_1, 5T_3, 10T_{17}$ $1T_1, 4T_1^*, 5T_3^*, 10T_{17}^*$	$20T_{587}^*$ $40000$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
[10, 5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*, 10T_{17}^*$	$20T_{589}^*$ $40000$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
[10, 5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*, 10T_{17}^*$	$20T_{592}^*$ $40000$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
[10, 5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*, 10T_{17}^*$	$20T_{595}^*$ $40000$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
[10, 5, 4, 1]	$1T_1, 4T_1, 5T_3, 10T_{17}$ $1T_1, 4T_1^*, 5T_3^*, 10T_{17}^*$	$20T_{600}^*$ $40000$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
[10, 5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*, 10T_{17}^*$	$20T_{618}^*$ $40000$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
[10, 5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*, 10T_{17}^*$	$20T_{624}^*$ $40000$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
[10, 5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*, 10T_{17}^*$	$20T_{718}^*$ 80000	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
[10, 5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*, 10T_{17}^*$	$20T_{726}^*$ 80000	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
[10, 5, 4, 1] $[10, 5, 4, 1]$	$1T_1, 4T_1, 5T_3, 10T_{17}$ $1T_1, 4T_1^*, 5T_3^*, 10T_{18}^{+*}$	$20T_{732}^{+*}$ 80000	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
[10, 5, 4, 1] $[10, 5, 4, 1]$	$1T_1, 4T_1, 5T_3, 10T_{18}$ $1T_1, 4T_1^*, 5T_3^*, 10T_{18}^{+*}$	$20T_{739}^{+*}$ 80000	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
[10, 5, 4, 1]	$1T_1, 4T_1, 5T_3, 10T_{18}$ $1T_1, 4T_1^*, 5T_3^*, 10T_{19}^*$	$20T_{574}^*$ $40000$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
[10, 5, 4, 1]	$1T_1, 4T_1, 5T_3, 10T_{19}$ $1T_1, 4T_1^*, 5T_3^*, 10T_{19}^*$	$20T_{577}^*$ $40000$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
[10, 5, 4, 1]	$1T_1, 4T_1, 5T_3, 10T_{19}$ $1T_1, 4T_1^*, 5T_3^*, 10T_{19}^*$	$20T_{602}^*$ $40000$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
[10, 5, 4, 1] $[10, 5, 4, 1]$	$1T_1, 4T_1, 5T_3, 10T_{19}$ $1T_1, 4T_1^*, 5T_3^*, 10T_{19}^*$	$20T_{617}^*$ 40000	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
[10, 5, 4, 1]	$1T_1, 4T_1, 5T_3, 10T_{19}$ $1T_1, 4T_1^*, 5T_3^*, 10T_{19}^*$	$20T_{705}^{*}$ 80000	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
[10, 5, 4, 1]	$1T_1, 4T_1, 5T_3, 10T_{19}$ $1T_1, 4T_1^*, 5T_3^*, 10T_{19}^*$	$20T_{737}^*$ 80000	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
[10, 5, 4, 1]	$1T_1, 4T_1, 5T_3, 10T_{19}$ $1T_1, 4T_1^*, 5T_3^*, 10T_{20}^*$	$20T_{576}^*$ $40000$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
[10, 5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*, 10T_{20}^*$	$20T_{580}^*$ $40000$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
[10, 5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*, 10T_{20}^*$	$20T_{584}^*$ $40000$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
[10, 5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*, 10T_{20}^*$	$20T_{588}^*$ 40000	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
[10, 5, 4, 1]	$1T_1, 4T_1, 5T_3, 10T_{20}$	$20T_{703}^*$ 80000	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
[10, 5, 4, 1]	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$20T_{716}^*$ 80000	$[20, 10, 5^2, 4^2, 1^{14}]$
[10, 5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*, 10T_{21}^*$	$20T_{583}^*$ 40000	$[20, 5^3, 4, 2^2, 1^{13}]$
[10, 5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*, 10T_{21}^*$	$20T_{591}^{*}$ 40000	$[20, 5^3, 4, 2^2, 1^{13}]$
[10, 5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*, 10T_{21}^*$	$20T_{608}^*$ 40000	$[20, 5^3, 4, 2^2, 1^{13}]$
[10, 5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*, 10T_{21}^*$	$20T_{612}^*$ 40000	$[20, 5^3, 4, 2^2, 1^{13}]$
[10, 5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*, 10T_{21}^*$	$20T_{713}^*$ 80000	$[20, 5^3, 4, 2^3, 1^{12}]$
[10, 5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*, 10T_{27}^*$	$20T_{696}^*$ 80000	$[20, 10, 5^2, 4, 2^2, 1^{13}]$
[10, 5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*, 10T_{27}^*$	$20T_{697}^*$ 80000	$[20, 10, 5^2, 4, 2^2, 1^{13}]$
[10, 5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*, 10T_{27}^*$	$20T_{700}^{*}$ 80000	$[20, 10, 5^2, 4, 2^2, 1^{13}]$
[10, 5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*, 10T_{27}^*$	$20T_{701}^{*}$ 80000	$[20, 10, 5^2, 4, 2^2, 1^{13}]$
[10, 5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*, 10T_{27}^*$	$20T_{711}^*$ 80000	$[20, 10, 5^2, 4, 2^2, 1^{13}]$
[10, 5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*, 10T_{27}^*$	$20T_{715}^*$ 80000	$[20, 10, 5^2, 4, 2^2, 1^{13}]$
[10, 5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*, 10T_{27}^*$	$20T_{717}^*$ 80000	$[20, 10, 5^2, 4, 2^2, 1^{13}]$
[10, 5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*, 10T_{27}^*$	$20T_{719}^*$ 80000	$[20, 10, 5^2, 4, 2^2, 1^{13}]$
[10, 5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*, 10T_{27}^*$	$20T_{723}^*$ 80000	$[20, 10, 5^2, 4, 2^2, 1^{13}]$
[10, 5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*, 10T_{27}^*$	$20T_{724}^*$ 80000	$[20, 10, 5^2, 4, 2^2, 1^{13}]$
[10, 5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*, 10T_{27}^*$	$20T_{725}^*$ 80000	$[20, 10, 5^2, 4, 2^2, 1^{13}]$
[10, 5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*, 10T_{27}^*$	20T* <sub>733</sub> 80000	$[20, 10, 5^2, 4, 2^2, 1^{13}]$
[10, 5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*, 10T_{27}^*$	$20T_{738}^{*}$ 80000	$[20, 10, 5^2, 4, 2^2, 1^{13}]$
	G: Possible Galois Groups, $D(G)$ : Deg	<u>'</u>	oups of factors, $\mathcal{L}(G)$ : Initial Degrees
	·		

Splitting table of degree 20

D(G)	S(G)	G	$\mid G \mid$	$\mathcal{L}(G)$	
[10, 5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*, 10T_{27}^*$	$20T_{740}^*$	80000	$[20, 10, 5^2, 4, 2^2, 1^{13}]$	
[10, 5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*, 10T_{27}^*$	$20T_{819}^*$	160000	$[20, 10, 5^2, 4^2, 2, 1^{13}]$	
[10, 5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*, 10T_{27}^*$	$20T_{821}^*$	160000	$[20, 10, 5^2, 4^2, 2, 1^{13}]$	
[10, 5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*, 10T_{27}^*$	$20T_{822}^*$	160000	$[20, 10, 5^2, 4^2, 2, 1^{13}]$	
[10, 5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*, 10T_{27}^*$	$20T_{824}^*$	160000	$[20, 10, 5^2, 4^2, 2, 1^{13}]$	
[10, 5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*, 10T_{27}^*$	$20T_{829}^*$	160000	$[20, 10, 5^2, 4^2, 2, 1^{13}]$	
[10, 5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*, 10T_{27}^*$	$20T_{220}^{+*}$	160000	$[20, 10, 5^2, 4, 2^3, 1^{12}]$	
[10, 5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*, 10T_{27}^*$	$20T_{831}^{+*}$	160000	$[20, 10, 5^2, 4, 2^3, 1^{12}]$	
[10, 5, 4, 1]	$1T_1, 4T_1^*, 5T_2^*, 10T_{27}^*$	$20T_{835}^*$	160000	$[20, 10, 5^2, 4^2, 2, 1^{13}]$	
[10, 5, 4, 1]	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$20T_{831}^{+*}  20T_{835}^{*}  20T_{838}^{*}$	160000	$[20, 10, 5^2, 4, 2^3, 1^{12}]$	
[10, 5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*, 10T_{27}^*$	$20T_{842}^*$	160000	$[20, 10, 5^2, 4, 2^3, 1^{12}]$	
[10, 5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*, 10T_{27}^*$	$\begin{array}{c} 20T_{842}^* \\ 20T_{889}^{+*} \end{array}$	320000	$[20, 5^3, 4^3, 2, 1^{12}]$	
[10, 5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*, 10T_{27}^*$	$20T_{891}^*$	320000	$[20, 10, 5^2, 4^2, 2^2, 1^{12}]$	
[10, 5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*, 10T_{28}^{+*}$	$20T_{698}^*$	80000	$[20, 5^3, 4^2, 2, 1^{13}]$	
[10, 5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*, 10T_{28}^{+*}$	$20T_{714}^*$	80000	$[20, 5^3, 4^2, 2, 1^{13}]$	
[10, 5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*, 10T_{28}^{+*}$	$20T_{813}^*$	160000	$[20, 5^3, 4^3, 1^{13}]$	
[10, 5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*, 10T_{28}^{+*}$	$20T_{817}^{+*}$	160000	$[20, 10, 5^2, 4^2, 2, 1^{13}]$	
[10, 5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*, 10T_{28}^{+*}$	$20T_{826}^*$	160000	$[20, 5^3, 4^3, 1^{13}]$	
[10, 5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*, 10T_{28}^{+*}$	$20T_{832}^{+*}$	160000	$[20, 10, 5^2, 4^2, 2, 1^{13}]$	
[10, 5, 4, 1]	$1T_1, 4T_1^*, 5T_2^*, 10T_{28}^{+*}$	$20T_{833}^*$	160000	$[20, 5^3, 4^3, 1^{13}]$	
[10, 5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*, 10T_{28}^{+*}$	$20T_{839}^*$	160000	$[20, 5^3, 4^3, 1^{13}]$	
[10, 5, 4, 1]	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$20T_{839}^{*}  20T_{892}^{+*}$	320000	$[20, 10, 5^2, 4^2, 2^2, 1^{12}]$	
[10, 5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*, 10T_{28}^{+*}$	$20T_{001}^*$	320000	$[20, 5^3, 4^3, 2, 1^{12}]$	
[10, 5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*, 10T_{33}^*$	$20T_{890}^*$	320000	$[20, 10, 5^2, 4^3, 1^{13}]$	
[10, 5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*, 10T_{33}^*$	$20T_{894}^*$	320000	$[20, 10, 5^2, 4^3, 1^{13}]$	
[10, 5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*, 10T_{33}^*$	$20T_{895}^*$	320000	$[20, 10, 5^2, 4^3, 1^{13}]$	
[10, 5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*, 10T_{33}^*$	$20T_{896}^*$	320000	$[20, 10, 5^2, 4^3, 1^{13}]$	
[10, 5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*, 10T_{33}^*$	$20T_{898}^*$	320000	$[20, 10, 5^2, 4^3, 1^{13}]$	
[10, 5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*, 10T_{33}^*$	$20T_{900}^*$	320000	$[20, 10, 5^2, 4^3, 1^{13}]$	
[10, 5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*, 10T_{33}^*$	$20T_{903}^*$	320000	$[20, 10, 5^2, 4^3, 1^{13}]$	
[10, 5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*, 10T_{33}^*$	$20T_{904}^*$	320000	$[20, 10, 5^2, 4^3, 1^{13}]$	
[10, 5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*, 10T_{33}^*$	$20T_{940}^*$	640000	$[20, 10, 5^2, 4^3, 2, 1^{12}]$	
[10, 5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*, 10T_{33}^*$	$20T_{941}^{+*}$	640000	$[20, 10, 5^2, 4^3, 2, 1^{12}]$	
[10, 5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*, 10T_{33}^*$	$207_{942}^*$	640000	$[20, 10, 5^2, 4^3, 2, 1^{12}]$	
[10, 5, 4, 1]	$1T_1, 4T_1^*, 5T_3^*, 10T_{33}^*$	$20T_{943}^*$	640000	$[20, 10, 5^2, 4^3, 2, 1^{12}]$	
[10, 5, 4, 1]	$ 1T_1, 4T_1^*, 5T_3^*, 10T_{33}^*  1T_1, 4T_4^{+*}, 5T_4^+, 10T_{40} $	$20T_{980}^*$	1280000	$[20, 10, 5^2, 4^4, 1^{12}]$	
[10, 5, 4, 1]	$1T_1, 4T_4^{+*}, 5T_4^+, 10T_{40}$	$20T_{1060}$	103680000	$[20, 10, 5^2, 4^4, 3^4, 1^8]$	
[10, 5, 4, 1]	$1T_1, 4T_5^*, 5T_5, 10T_{40}$	$20T_{1058}$	103680000	$[20, 5^3, 4^4, 3^4, 2, 1^7]$	
[10, 5, 4, 1]	$1T_1, 4T_5^*, 5T_5, 10T_{41}$	$20T_{1068}$	207360000	$[20, 10, 5^2, 4^4, 3^4, 2, 1^7]$	
[10, 5, 4, 1]	$1T_1, 4T_5^*, 5T_5, 10T_{41}$	$20T_{1072}^{+}$	207360000	$[20, 10, 5^2, 4^4, 3^4, 2, 1^7]$	
[10, 5, 4, 1]	$1T_1, 4T_5^*, 5T_5, 10T_{41}$	$20T_{1073}^{+}$	207360000	$[20, 10, 5^2, 4^4, 3^4, 2, 1^7]$	
[10, 5, 4, 1]	$1T_1, 4T_5^*, 5T_5, 10T_{41}$	$20T_{1075}$	207360000	$[20, 10, 5^2, 4^4, 3^4, 2, 1^7]$	
[10, 5, 4, 1]	$1T_1, 4T_5^*, 5T_5, 10T_{41}$	$20T_{1082}$	414720000	$[20, 10, 5^2, 4^4, 3^4, 2^2, 1^6]$	
[10, 5, 4, 1]	$1T_1, 4T_5^*, 5T_5, 10T_{41}$	$20T_{1088}^{+}$	414720000	$[20, 5^3, 4^4, 3^4, 2^3, 1^5]$	
[10, 5, 4, 1]	$1T_1, 4T_5^*, 5T_5, 10T_{42}^+$	$20T_{1081}$	414720000	$[20, 5^3, 4^4, 3^4, 2^3, 1^5]$	
$G$ : Possible Galois Groups, $D(G)$ : Degrees of factors, $S(G)$ : Galois Groups of factors, $\mathcal{L}(G)$ : Initial Degrees					

D(0)				4(0)		
D(G)	S(G)	G	G	$\mathcal{L}(G)$		
[10, 5, 4, 1]	$1T_1, 4T_5^*, 5T_5, 10T_{42}^+$	$20T_{1083}^{+}$	414720000	$[20, 10, 5^2, 4^4, 3^4, 2^2, 1^6]$		
[10, 5, 4, 1]	$1T_1, 4T_5^*, 5T_5, 10T_{43}$	$20T_{1094}$	829440000	$[20, 10, 5^2, 4^4, 3^4, 2^3, 1^5]$		
[10, 5, 4, 1]	$1T_1, 4T_5^*, 5T_5, 10T_{43}$	$20T_{1096}^{+}$	829440000	$[20, 10, 5^2, 4^4, 3^4, 2^3, 1^5]$		
[10, 5, 4, 1]	$1T_1, 4T_5^*, 5T_5, 10T_{43}$	$20T_{1097}$	829440000	$[20, 10, 5^2, 4^4, 3^4, 2^3, 1^5]$		
[10, 5, 4, 1]	$1T_1, 4T_5^*, 5T_5, 10T_{43}$	$20T_{1098}$	829440000	$[20, 10, 5^2, 4^4, 3^4, 2^3, 1^5]$		
[10, 5, 4, 1]	$1T_1, 4T_5^*, 5T_5, 10T_{43}$	$20T_{1103}$	1658880000	$[20, 10, 5^2, 4^4, 3^4, 2^4, 1^4]$		
[15, 4, 1]	$1T_1, 4T_1^*, 15T_{17}^{+*}$	$20T_{360}^*$	6000	$[20, 15, 5, 4, 1^{16}]$		
[15, 4, 1]	$1T_1, 4T_1^*, 15T_{19}^*$	$20T_{359}^{+*}$	6000	$[20, 15, 5, 4, 1^{16}]$		
[15, 4, 1]	$1T_1, 4T_1^*, 15T_{27}^*$	$20T^*_{454}$	12000	$[20, 15, 10, 4, 1^{16}]$		
[15, 4, 1]	$1T_1, 4T_1^*, 15T_{37}^{+*}$	$20T_{550}^*$	30000	$[20, 15, 5^2, 4, 1^{15}]$		
[15, 4, 1]	$1T_1, 4T_1^*, 15T_{37}^{+*}$	$20T^*_{553}$	30000	$[20, 15, 5^2, 4, 1^{15}]$		
[15, 4, 1]	$1T_1, 4T_1^*, 15T_{38}^*$	$20T_{551}^{+*}$	30000	$[20, 15, 5^2, 4, 1^{15}]$		
[15, 4, 1]	$1T_1, 4T_1^*, 15T_{38}^*$	$20T_{554}^{+*}$	30000	$[20, 15, 5^2, 4, 1^{15}]$		
[15, 4, 1]	$1T_1, 4T_1^*, 15T_{49}^*$	$20T_{660}^*$	60000	$[20, 15, 10, 5, 4, 1^{15}]$		
[15, 4, 1]	$1T_1, 4T_1^*, 15T_{49}^*$	$20T_{662}^*$	60000	$[20, 15, 5^2, 4, 2, 1^{14}]$		
[15, 4, 1]	$1T_1, 4T_1^*, 15T_{58}^{+*}$	$20T_{782}^*$	120000	$[20, 15, 5^2, 4, 2^2, 1^{13}]$		
[15, 4, 1]	$1T_1, 4T_1^*, 15T_{58}^{+*}$	$20T_{785}^*$	120000	$[20, 15, 5^2, 4, 2^2, 1^{13}]$		
[15, 4, 1]	$1T_1, 4T_1^*, 15T_{58}^{+*}$	$20T_{881}^*$	240000	$[20, 15, 5^2, 4, 2^3, 1^{12}]$		
[15, 4, 1]	$1T_1, 4T_1^*, 15T_{59}^*$	$20T_{783}^{+*}$	120000	$[20, 15, 5^2, 4, 2^2, 1^{13}]$		
[15, 4, 1]	$1T_1, 4T_1^*, 15T_{59}^*$	$20T_{787}^{+*}$	120000	$[20, 15, 5^2, 4, 2^2, 1^{13}]$		
[15, 4, 1]	$1T_1, 4T_1^*, 15T_{59}^*$	$20T_{789}^{+*}$	120000	$[20, 15, 5^2, 4, 2^2, 1^{13}]$		
[15, 4, 1]	$1T_1, 4T_1^*, 15T_{59}^*$	$20T_{878}^{+*}$	240000	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		
[15, 4, 1]	$1T_1, 4T_1^*, 15T_{59}^*$	$20T_{000}^{+*}$	240000	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		
[15, 4, 1]	$1T_1, 4T_1^*, 15T_{68}^*$	20T**	240000	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		
[15, 4, 1]	$1T_1, 4T_1^*, 15T_{68}^*$	$20T_{879}^*$	240000	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		
[15, 4, 1]	$1T_1, 4T_1^*, 15T_{68}^*$	$20T_{880}^*$	240000	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		
[15, 4, 1]	$1T_1, 4T_1^*, 15T_{68}^*$	$20T_{884}^*$	240000	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		
[15, 4, 1]	$1T_1, 4T_1^*, 15T_{68}^*$	$20T_{931}^{+*}$	480000	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		
[15, 4, 1]	$1T_1, 4T_1^*, 15T_{68}^*$	$20T_{932}^*$	480000	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		
[15, 4, 1]	$1T_1, 4T_1^*, 15T_{68}^*$ $1T_1, 4T_1^*, 15T_{75}^*$	$20T_{930}^{+*}$	480000	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		
[15, 4, 1]	$1T_1, 4T_1, 15T_{75}$ $1T_1, 4T_1^*, 15T_{75}^*$	$20T_{960}^{+*}$	960000	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		
[15, 4, 1]	$1T_1, 4T_1, 15T_{75}$ $1T_1, 4T_1^*, 15T_{75}^*$	$20T_{988}^*$	1920000	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		
[15, 4, 1]	$1T_1, 4T_1, 15T_{75}$ $1T_1, 4T_1^*, 15T_{82}^*$	$20T_{959}^*$	960000	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		
[15, 4, 1]	$1T_1, 4T_1, 15T_{82}$ $1T_1, 4T_1^*, 15T_{82}^*$	$20T_{961}^*$	960000	$[20, 15, 10, 5, 4^3, 1^{13}]$		
[15, 4, 1]	$1T_1, 4T_1, 15T_{82}$ $1T_1, 4T_1^*, 15T_{82}^*$	$20T_{986}^*$	1920000	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		
[15, 4, 1]	$1T_1, 4T_1, 15T_{82}$ $1T_1, 4T_1^*, 15T_{82}^*$	$20T_{986}^{+8}$ $20T_{987}^{+8}$	1920000	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		
	$1T_1, 4T_1, 15T_{82}$ $1T_1, 4T_1^*, 15T_{82}^*$	$20T_{987}^*$ $20T_{1014}^*$	3840000	$\begin{bmatrix} 20, 15, 10, 5, 4, 2, 1 \end{bmatrix}$ $\begin{bmatrix} 20, 15, 10, 5, 4^4, 1^{12} \end{bmatrix}$		
[15, 4, 1]	111, 411, 10182		155520000	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		
[15, 4, 1]		$20T_{1066}^{+}$	311040000	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		
[15, 4, 1]	111, 414, 10196	$20T_{1078}$				
[15, 4, 1]	$1T_1, 4T_5^*, 15T_{94}^+$	$20T_{1080}$	311040000	$[20, 15, 5^2, 4^4, 3^4, 2, 1^7]$		
[15, 4, 1]	$1T_1, 4T_5^*, 15T_{95}$	$20T_{1077}^{+}$	311040000	$[20, 15, 5^2, 4^4, 3^4, 2, 1^7]$		
[15, 4, 1]	$1T_1, 4T_5^*, 15T_{95}$	$20T_{1079}^{+}$	311040000	$[20, 15, 5^2, 4^4, 3^4, 2, 1^7]$		
[15, 4, 1]	$1T_1, 4T_5^*, 15T_{97}$	$20T_{1092}$	622080000	$[20, 15, 10, 5, 4^4, 3^4, 2, 1^7]$		
[15, 4, 1]	$1T_1, 4T_5^*, 15T_{97}$	$20T_{1093}^{+}$	622080000	$[20, 15, 5^2, 4^4, 3^4, 2^2, 1^6]$		
[15, 4, 1]	$1T_1, 4T_5^*, 15T_{101}$	$20T_{1102}^{+}$	1244160000	$[20, 15, 5^2, 4^4, 3^4, 2^3, 1^5]$		
$G$ : Possible Galois Groups, $D(G)$ : Degrees of factors, $S(G)$ : Galois Groups of factors, $\mathcal{L}(G)$ : Initial Degrees						
1						

Splitting table of degree 20

D(G)	S(G)	G	G	$\mathcal{L}(G)$
[15, 4, 1]	$1T_1, 4T_5^*, 15T_{101}$	$20T_{1107}$	2488320000	$[20, 15, 5^2, 4^4, 3^4, 2^4, 1^4]$
[15, 4, 1]	$1T_1, 4T_5, 15T_{101}$ $1T_1, 4T_5^*, 15T_{102}$	$20T_{1107}$ $20T_{1108}$	2488320000	$[20, 15, 10, 5, 4^4, 3^4, 2^3, 1^5]$
[15, 4, 1]	$1T_1, 4T_5, 15T_{102}$ $1T_1, 4T_5^*, 15T_{102}$	$20T_{1109}^{+}$	2488320000	$[20, 15, 10, 5, 4^4, 3^4, 2^3, 1^5]$
[15, 4, 1]	$1T_1, 4T_5, 15T_{102}$ $1T_1, 4T_5^*, 15T_{102}$	$20T_{1109}$ $20T_{1111}$	4976640000	$ \begin{bmatrix} 20, 15, 10, 5, 4, 3^4, 2^4, 1^4 \end{bmatrix} $
[10, 4, 1]	$1T_1, 4T_5, 13T_{102}$ $1T_1, 9T_9^{+*}, 10T_{26}^{+}$	$20T_{1111}^{+}$ $20T_{888}^{+}$	259200	$ \begin{bmatrix} 20, 10, 10, 9, 4, 3, 2, 1 \\ 20, 10, 9^2, 4^2, 1^{14} \end{bmatrix} $
-	$1T_1, 9T_9, 10T_{26}$ $1T_1, 9T_{14}^{+*}, 10T_{31}^{+}$		518400	$ \begin{bmatrix} 20, 10, 9, 4, 1 \\ 20, 10, 9^2, 8, 4, 1^{14} \end{bmatrix} $
[10, 9, 1]	$1I_1, 9I_{14}, 10I_{31}$	$20T_{935}^{+}$		$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
[10, 9, 1]	$1T_1, 9T_{14}^{+*}, 10T_{31}^{+}$	$20T_{939}^{+}$	518400	
[10, 9, 1]	$1T_1, 9T_{14}^{+*}, 10T_{31}^{+}$	$20T_{975}^{+}$	1036800	$[20, 10, 9^2, 8^2, 1^{14}]$
[10, 9, 1]	$1T_1, 9T_{15}^*, 10T_{30}$	$20T_{936}^{+}$	518400	$[20, 10, 9^2, 8, 4, 1^{14}]$
[10, 9, 1]	$1T_1, 9T_{15}^*, 10T_{30}$	$20T_{938}$	518400	$[20, 10, 9^2, 8, 4, 1^{14}]$
[10, 9, 1]	$1T_1, 9T_{15}^*, 10T_{30}$	$20T_{971}$	1036800	$[20, 10, 9^2, 8^2, 1^{14}]$
[10, 9, 1]	$1T_1, 9T_{16}^*, 10T_{32}$	$20T_{934}^{+}$	518400	$[20, 10, 9^2, 4^2, 2, 1^{13}]$
[10, 9, 1]	$1T_1, 9T_{16}^*, 10T_{32}$	$20T_{937}$	518400	$[20, 10, 9^2, 4^2, 2, 1^{13}]$
[10, 9, 1]	$1T_1, 9T_{16}^*, 10T_{32}$	$20T_{973}$	1036800	$[20, 10, 9^2, 4^2, 2^2, 1^{12}]$
[10, 9, 1]	$1T_1, 9T_{19}^*, 10T_{35}$	$20T_{969}$	1036800	$[20, 10, 9^2, 8, 4, 2, 1^{13}]$
[10, 9, 1]	$1T_1, 9T_{19}^*, 10T_{35}$	$20T_{970}$	1036800	$[20, 10, 9^2, 8, 4, 2, 1^{13}]$
[10, 9, 1]	$1T_1, 9T_{19}^*, 10T_{35}$	$20T_{972}^{+}$	1036800	$[20, 10, 9^2, 8, 4, 2, 1^{13}]$
[10, 9, 1]	$1T_1, 9T_{19}^*, 10T_{35}$	$20T_{974}$	1036800	$[20, 10, 9^2, 8, 4, 2, 1^{13}]$
[10, 9, 1]	$1T_1, 9T_{19}^*, 10T_{35}$	$20T_{976}$	1036800	$[20, 10, 9^2, 8, 4, 2, 1^{13}]$
[10, 9, 1]	$1T_1, 9T_{19}^*, 10T_{35}$	$20T_{977}^{+}$	1036800	$[20, 10, 9^2, 8, 4, 2, 1^{13}]$
[10, 9, 1]	$1T_1, 9T_{19}^*, 10T_{35}$	$20T_{978}^+$	1036800	$[20, 10, 9^2, 8, 4, 2, 1^{13}]$
[10, 9, 1]	$1T_1, 9T_{19}^*, 10T_{35}$	$20T_{996}$	2073600	$[20, 10, 9^2, 8, 4, 2^2, 1^{12}]$
[10, 9, 1]	$1T_1, 9T_{19}^*, 10T_{35}$	$20T_{997}^{+}$	2073600	$[20, 10, 9^2, 8^2, 2, 1^{13}]$
[10, 9, 1]	$1T_1, 9T_{19}^*, 10T_{35}$	$20T_{998}$	2073600	$[20, 10, 9^2, 8^2, 2, 1^{13}]$
[10, 9, 1]	$1T_1, 9T_{19}^*, 10T_{35}$	$20T_{999}$	2073600	$[20, 10, 9^2, 8^2, 2, 1^{13}]$
[10, 9, 1]	$1T_1, 9T_{19}^*, 10T_{35}$	$20T_{1000}$	2073600	$[20, 10, 9^2, 8, 4, 2^2, 1^{12}]$
[10, 9, 1]	$1T_1, 9T_{19}^*, 10T_{35}$	$20T_{1001}$	2073600	$[20, 10, 9^2, 8^2, 2, 1^{13}]$
[10, 9, 1]	$1T_1, 9T_{19}^*, 10T_{35}$	$20T_{1016}$	4147200	$[20, 10, 9^2, 8^2, 2^2, 1^{12}]$
[10, 9, 1]	$1T_1, 9T_{33}^+, 10T_{44}^+$	$20T_{1112}^{+}$	6584094720000	$[20, 10, 9^2, 8^2, \dots, 3^2, 1^4]$
[10, 9, 1]	$1T_1, 9T_{34}, 10T_{45}$	$20T_{1113}$	13168189440000	$[20, 10, 9^2, 8^2, \dots, 3^2, 2, 1^3]$
[10, 9, 1]	$1T_1, 9T_{34}, 10T_{45}$	$20T_{1114}^{+}$	13168189440000	$[20, 10, 9^2, 8^2, \dots, 3^2, 2, 1^3]$
[10, 9, 1]	$1T_1, 9T_{34}, 10T_{45}$	$20T_{1115}$	26336378880000	$[20, 10, 9^2, 8^2, \dots, 3^2, 2^2, 1^2]$
[19, 1]	$1T_1, 19T_5^{+*}$	$20T_{272}^{+}$	3420	$[20, 19, 9, 1^{17}]$
[19, 1]	$1T_1, 19T_6^*$	$20T_{362}$	6840	$[20, 19, 18, 1^{17}]$
[19, 1]	$1T_1, 19T_7^+$	$20T_{1116}^{+}$	20! / 2	$[20, \ldots, 3, 1^2]$
[19, 1]	$1T_1, 19T_8$	$20T_{1117}$	20!	$[20,\ldots,1]$
	G: Possible Galois Groups, $D(G)$ : Deg		rs, $S(G)$ : Galois Group	

Splitting table of degree 21

D(G)	S(G)	$G \qquad  G $	$\mathcal{L}(G)$		
$\begin{bmatrix} D(G) \\ 1^{21} \end{bmatrix}$	$(1T_1)^{21}$	$21T_1^{+*}$ 21	$\begin{bmatrix} 21, 1^{20} \end{bmatrix}$		
[1 <sup>21</sup> ]	$(1T_1)$ $(1T_1)^{21}$		$\begin{bmatrix} 21, & 1 \\ 21, & 1^{20} \end{bmatrix}$		
			$\begin{bmatrix} 21, & 1 & 1 \\ 21, & 2, & 1^{19} \end{bmatrix}$		
$[2^7, 1^7]$	$(1T_1)^7, (2T_1)^7$	21 <i>T</i> <sub>6</sub> * 42			
$[7^2, 1^7]$	$(1T_1)^7, (7T_1^{+*})^2$	$ \begin{array}{ccc} 21T_{12}^{+*} & 147 \\ 21T_{13}^{+*} & 147 \end{array} $	$[21, 7, 1^{19}]$		
$[7^2, 1^7]$	$(1T_1)^7, (7T_1^{+*})^2$	$21T_{13}^{+*}$ 147	$[21, 7, 1^{19}]$		
$[7^2, 1^7]$	$(1T_1)^7$ , $(7T_1^{+*})^2$	$ \begin{array}{cccc} 21T_{28}^{+*} & 1029 \\ 21T_{18}^{*} & 294 \end{array} $	$[21, 7^2, 1^{18}]$		
$[14, 1^7]$	$(1T_1)^7$ , $14T_2^*$ $(1T_1)^7$ , $14T_8^*$	21T* 294	[21, 14, 1 <sup>19</sup> ]		
$[14, 1^7]$	$(1T_1)^4$ , $14T_8^2$	$21T_{32}^*$ $2058$	[21, 14, 7, 1 <sup>18</sup> ]		
$[2^9, 1^3]$	$(1T_1)^3$ , $(2T_1)^9$	$21T_3^*$ 42	[21, 2, 1 <sup>19</sup> ]		
$[2^9, 1^3]$	$(1T_1)^3$ , $(2T_1)^9$	21T <sub>4</sub> * 42	$[21, 2, 1^{19}]$		
$[3^6, 1^3]$	$(1T_1)^3$ , $(3T_1^{+*})^6$	$21T_7^{+*}$ 63	$[21, 3, 1^{19}]$		
$[3^6, 1^3]$	$(1T_1)^3$ , $(3T_1^{+*})^6$	$21T_{39}^{+*}$ 5103	$[21, 3^5, 1^{15}]$		
$[3^6, 1^3]$	$(1T_1)^3$ , $(3T_1^{+*})^6$	$21T_{61}^{+*}$ 15309	$[21, 3^6, 1^{14}]$		
$[6^3, 1^3]$	$\begin{array}{c} (1T_1)^3, \ (3T_1^{+*})^6 \\ (1T_1)^3, \ (6T_1^*)^3 \\ (1T_1)^3, \ (6T_5^*)^3 \\ \end{array}$	$21T_9^*$ 126	$[21, 6, 1^{19}]$		
$[6^3, 1^3]$	$(1T_1)^3, (6T_5^*)^3$	$21T_{52}^{*}$ 10206	$[21, 6, 3^4, 1^{15}]$		
$[6^3, 1^3]$	$(1T_1)^3, (6T_5^*)^3$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$[21, 6, 3^5, 1^{14}]$		
$[6^3, 1^3]$	$(1T_1)^3$ , $(6T_7^{+*})^3$	$21T_{22}^{+}$ 504	$[21, 6, 4, 1^{18}]$		
$[6^3, 1^3]$	$(1T_1)^3, (6T_{15}^+)^3$	$21T_{44}^{+}$ 7560	$[21, 6, 5, 4, 3, 1^{16}]$		
$[6^3, 1^3]$	$ \begin{array}{c} (1T_1)^{-1}, (6T_7)^{-1} \\ (1T_1)^3, (6T_{15}^{++})^3 \\ (1T_1)^3, (6T_{16})^3 \\ (4T_1)^3, (6T_{16}^{++})^2 \end{array} $	$21T_{56}$ $15120$	$[21, 6, 5, 4, 3, 2, 1^{15}]$		
$[9^2, 1^3]$	$ \begin{array}{c} (1T_1)^3, \ (9T_{17}^{+*})^2 \\ (1T_1)^3, \ (9T_{17}^{+*})^2 \end{array} $	$21T_{59}^{+*}$ 15309	$[21, 9, 3^4, 1^{15}]$		
$[9^2, 1^3]$	$(1T_1)^3, (9T_{17}^{+*})^2$	$21T_{60}^{+*}$ 15309	$[21, 9, 3^4, 1^{15}]$		
$[9^2, 1^3]$	$(1T_1)^3, (9T_{17}^{+*})^2$	$21T_{86}^{+*}$ 45927	$[21, 9, 3^5, 1^{14}]$		
$[18, 1^3]$	$(1T_1)^3$ , $18T_{325}^*$	$21T_{77}^*$ 30618	$[21, 18, 3^4, 1^{15}]$		
$[18, 1^3]$	$(1T_1)^3$ , $18T_{327}^*$	$21T_{81}^*$ 30618	$[21, 18, 3^4, 1^{15}]$		
$[18, 1^3]$	$(1T_1)^3$ , $18T_{453}^*$	$21T_{98}^*$ 91854	$[21, 18, 3^5, 1^{14}]$		
$[18, 1^3]$	$(1T_1)^3$ , $18T_{510}^{+*}$	$21T_{104}^{+}$ 122472	$[21, 18, 12, 3^3, 1^{15}]$		
$[18, 1^3]$	$(1T_1)^3, 18T_{610}^{+*}$	$21T_{115}^{+}$ 367416	$[21, 18, 12, 3^4, 1^{14}]$		
$[18, 1^3]$	$(1T_1)^3$ , $18T_{791}^+$	$21T_{121}^{+}$ 1837080	$[21, 18, 15, 12, 9, 3, 1^{15}]$		
$[18, 1^3]$	$(1T_1)^3$ , $18T_{847}$	$21T_{130}$ $3674160$	$[21, 18, 15, 12, 9, 6, 1^{15}]$		
$[18, 1^3]$	$(1T_1)^3$ , $18T_{956}^+$	$21T_{132}^{+}$ 5511240	$[21, 18, 15, 12, 9, 3^2, 1^{14}]$		
$[18, 1^3]$	$(1T_1)^3$ , $18T_{898}$	$21T_{139}$ $11022480$	$[21, 18, 15, 12, 9, 6, 3, 1^{14}]$		
$[2^{10}, 1]$	$(1T_1)^3$ , $18T_{898}$ $1T_1$ , $(2T_1)^{10}$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$[21, 2, 1^{19}]$		
$[4^3, 2^4, 1]$	$1T_1, (2T_1)^4, (4T_2^{+*})^3$	$21T_8^*$ 84	$[21, 2^2, 1^{18}]$		
$[7^2, 2^3, 1]$	$1T_1, (2T_1)^3, (7T_2^*)^2$	$ 21T_{16}^* 294$	$[21, 7, 2, 1^{18}]$		
$[7^2, 2^3, 1]$	$1T_1, (2T_1)^3, (7T_2^*)^2$	$21T_{19}^{*}$ 294	$[21, 7, 2, 1^{18}]$		
$[7^2, 2^3, 1]$	$1T_1, (2T_1)^3, (7T_2^*)^2$	$21T_{31}^{*}$ 2058	$[21, 7^2, 2, 1^{17}]$		
$[7^2, 2^3, 1]$	$1T_1, (2T_1)^3, (7T_2^*)^2$	$21T_{36}^{+*}$ 4116	$[21, 7^2, 2^2, 1^{16}]$		
$[7^2, 2^3, 1]$	$1T_1, (2T_1)^3, (7T_2^*)^2$	$21T_{45}^{*}$ 8232	$[21, 7^2, 2^3, 1^{15}]$		
$[14, 2^3, 1]$	$1T_1, (2T_1)^3, 14T_1^*$	$21T_{17}^{+*}$ 294	$[21, 7, 2, 1^{18}]$		
$[14, 2^3, 1]$	$1T_1, (2T_1)^3, 14T_3^*$	$21T_{23}^{*}$ 588	$[21, 14, 2, 1^{18}]$		
$[14, 2^3, 1]$	$1T_1, (2T_1)^3, 14T_8^*$	$21T_{30}^{+*}$ 2058	$[21, 7^2, 2, 1^{17}]$		
$[14, 2^3, 1]$	$1T_1, (2T_1)^3, 14T_{13}^*$	$21T_{37}^*$ 4116	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		
$[14, 2^3, 1]$	$1T_1, (2T_1)^3, 14T_{20}^*$	$21T_{46}^*$ 8232	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		
$[14, 2^3, 1]$	$1T_1, (2T_1)^3, 14T_{20}^*$	$21T_{47}^{+*}$ 8232	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		
$[14, 2^3, 1]$	$1T_1, (2T_1)^3, 14T_{20}^*$	$21T_{62}^*$ $16464$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		
			-		
$G$ : Possible Galois Groups, $D(G)$ : Degrees of factors, $S(G)$ : Galois Groups of factors, $\mathcal{L}(G)$ : Initial Degrees					

Splitting table of degree 21

D(G)	S(G)	G		$\mathcal{L}(G)$	
$[8, 4^2, 2^2, 1]$	$1T_1, (2T_1)^2, (4T_3^*)^2, 8T_4^{+*}$	$21T_{14}^{+}$	168	$[21, 2^3, 1^{17}]$	
$[3^6, 2, 1]$	$1T_1, 2T_1, (3T_2^*)^6$	$21T_{50}^{*}$	10206	$[21, 3^5, 2, 1^{14}]$	
$[3^6, 2, 1]$	$1T_1, 2T_1, (3T_2^*)^6$	$21T_{80}^*$	30618	$[21, 3^6, 2, 1^{13}]$	
$[3^6, 2, 1]$	$1T_1, 2T_1, (3T_2^*)^6$	$21T_{105}^{+*}$	122472	$[21, 3^6, 2^3, 1^{11}]$	
$[3^6, 2, 1]$	$1T_1, 2T_1, (3T_2^*)^6$	$21T_{112}^*$	244944	$[21, 3^6, 2^4, 1^{10}]$	
$[3^6, 2, 1]$	$1T_1, 2T_1, (3T_2^*)^6$	$21T_{120}^{+*}$	979776	$[21, 3^6, 2^6, 1^8]$	
$[3^6, 2, 1]$	$1T_1, 2T_1, (3T_2^*)^6$	$21T_{123}^*$	1959552	$[21, 3^6, 2^7, 1^7]$	
$[6^2, 3^2, 2, 1]$	$1T_1, 2T_1, (3T_1^{+*})^2, (6T_1^*)^2$	$ \begin{array}{c} 123 \\ 21T_{11}^{*} \\ 21T_{10}^{+*} \\ 21T_{51}^{+*} \\ 21T_{75}^{+*} \end{array} $	126	$[21, 3, 2, 1^{18}]$	
$[6^3, 2, 1]$	$1T_1, 2T_1, (6T_1^*)^3$	$21T_{10}^{+*}$	126	$[21, 3, 2, 1^{18}]$	
$[6^3, 2, 1]$	$1T_1, 2T_1, (6T_5^*)^3$	$21T_{51}^{+*}$	10206	$[21, 3^5, 2, 1^{14}]$	
$[6^3, 2, 1]$	$1T_1, 2T_1, (6T_5^*)^3$	$21T_{75}^{+*}$	30618	$[21, 3^6, 2, 1^{13}]$	
$[6^3, 2, 1]$	$1T_1, 2T_1, (6T_9^*)^3$	$211_{68}$	20412	$[21, 6, 3^4, 2, 1^{14}]$	
$[6^3, 2, 1]$	$1T_1, 2T_1, (6T_9^*)^3$	21T**	61236	$[21, 6, 3^5, 2, 1^{13}]$	
$[6^3, 2, 1]$	$1T_1, 2T_1, (6T_{13}^*)^3$	$21T_{122}^*$	1959552	$[21, 6, 3^5, 2^6, 1^8]$	
$[6^3, 2, 1]$	$1T_1, 2T_1, (6T_{13}^*)^3$	$21T_{124}^{+*}$	1959552	$[21, 6, 3^5, 2^6, 1^8]$	
$[6^3, 2, 1]$	$1T_1, 2T_1, (6T_{13}^*)^3$	$21T_{131}^*$	3919104	$[21, 6, 3^5, 2^7, 1^7]$	
[12, 6, 2, 1]	$1T_1, 2T_1, 6T_1^*, 12T_2^{+*}$	$21T_{15}^{*}$	252	$[21, 6, 2, 1^{18}]$	
[12, 6, 2, 1]	$1T_1, 2T_1, 6T_7^{+*}, 12T_{23}^{+*}$	$21T_{27}$	1008	$[21, 6, 4, 2, 1^{17}]$	
[12, 6, 2, 1]	$1T_1, 2T_1, 6T_{15}^+, 12T_{180}^+$	$21T_{57}$	15120	$[21, 6, 5, 4, 3, 2, 1^{15}]$	
[12, 6, 2, 1]	$1T_1, 2T_1, 6T_{16}, 12T_{183}^+$	$21T_{58}^{+}$	15120	$[21, 6, 5, 4, 3, 2, 1^{15}]$	
[12, 6, 2, 1]	$1T_1, 2T_1, 6T_{16}, 12T_{219}^+$	21T <sub>74</sub>	30240	$[21, 6, 5, 4, 3, 2^2, 1^{14}]$	
$[9^2, 2, 1]$	$1T_1, 2T_1, (9T_{22}^*)^2$	21779	30618	$[21, 9, 3^4, 2, 1^{14}]$	
$[9^2, 2, 1]$	$1T_1, 2T_1, (9T_{22}^*)^2$	$21T_{100}^*$	91854	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	
$[9^2, 2, 1]$	$1T_1, 2T_1, 9T_{25}^{+*}, 9T_{28}^{*}$	$21T_{114}^{+*}$	367416	$[21, 9, 3^5, 2^3, 1^{11}]$	
$[9^2, 2, 1]$	$1T_1, 2T_1, (9T_{28}^*)^2$	$21T_{117}^*$	734832	$[21, 9, 3^5, 2^4, 1^{10}]$	
$[9^2, 2, 1]$	$1T_1, 2T_1, (9T_{28}^*)^2$	$21T_{127}^{+*}$	2939328	$[21, 9, 3^5, 2^6, 1^8]$	
$[9^2, 2, 1]$	$1T_1, 2T_1, (9T_{28}^*)^2$	$21T_{137}^*$	5878656	$[21, 9, 3^5, 2^7, 1^7]$	
[18, 2, 1]	$1T_1, 2T_1, 18T_{323}^*$	21T <sub>78</sub> <sup>+*</sup>	30618	$[21, 9, 3^4, 2, 1^{14}]$	
[18, 2, 1]	$1T_1, 2T_1, 18T_{408}^*$	$21T_{92}^*$	61236	$[21, 18, 3^4, 2, 1^{14}]$	
[18, 2, 1]	$1T_1, 2T_1, 18T_{453}^*$	21T <sub>99</sub> <sup>+*</sup>	91854	$[21, 9, 3^5, 2, 1^{13}]$	
[18, 2, 1]	$1T_1, 2T_1, 18T_{532}^*$	$21T_{107}^*$	183708	$[21, 18, 3^5, 2, 1^{13}]$	
[18, 2, 1] [18, 2, 1]	$1T_1, 2T_1, 18T_{580}^{+*}$	$21T_{111}$	244944 367416	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	
[18, 2, 1]	$1T_1, 2T_1, 18T_{621}^*$	$21T_{113}^{+}$	734832	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
	$1T_1, 2T_1, 18T_{678}^*$	$21T_{119}$ $21T_{118}$	734832	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	
[18, 2, 1]	$1T_1, 2T_1, 18T_{679}^{+*}$		2939328		
[18, 2, 1]	$1T_1, 2T_1, 18T_{822}^*$	$21T_{125}^{+}$		$ \begin{array}{c} [21, 18, 12, 3^4, 2^3, 1^{11}] \\ [21, 18, 12, 3^4, 2^3, 1^{11}] \end{array} $	
[18, 2, 1]	$1T_1, 2T_1, 18T_{833}^*$	$21T_{126}^{+}$	2939328 3674160	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
[18, 2, 1]	$1T_1, 2T_1, 18T_{848}$	$21T_{129}^{+}$		$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
[18, 2, 1]	$1T_1, 2T_1, 18T_{849}^+$ $1T_1, 2T_1, 18T_{857}^*$	$21T_{128}$	3674160 5878656	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
[18, 2, 1]		$21T^*_{133}$	5878656	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$1T_1, 2T_1, 18T_{857}^*$	$21T_{134}^{+*}$	11757312	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
	$1T_1, 2T_1, 18T_{857}^*$ $1T_1, 2T_1, 18T_{862}^*$	$21T_{142}^*$ $21T_{135}$	5878656	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	
[18, 2, 1]	$1T_1, 2T_1, 18T_{862}$ $1T_1, 2T_1, 18T_{863}^*$	$21T_{135}$ $21T_{136}$	5878656	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	
[18, 2, 1] [18, 2, 1]	$1T_1, 2T_1, 18T_{863}$ $1T_1, 2T_1, 18T_{886}$	$21T_{136}$ $21T_{138}$	7348320	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
-					
$G$ : Possible Galois Groups, $D(G)$ : Degrees of factors, $S(G)$ : Galois Groups of factors, $\mathcal{L}(G)$ : Initial Degrees					

Splitting table of degree 21

D(G)	S(G)	G	G	$\mathcal{L}(G)$	
[18, 2, 1]	$1T_1, 2T_1, 18T_{899}$	$21T_{141}^{+}$	11022480	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	
[18, 2, 1]	$1T_1, 2T_1, 18T_{899}$ $1T_1, 2T_1, 18T_{900}^+$	$21T_{141}$ $21T_{140}$	11022480	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	
[18, 2, 1]	$1T_1, 2T_1, 18T_{900}$ $1T_1, 2T_1, 18T_{925}$	$21T_{140}$ $21T_{144}$	22044960	$ \begin{bmatrix} 21, & 13, & 13, & 12, & 9, & 3, & 2, & 1 & 1 \\ 21, & 18, & 15, & 12, & 9, & 6, & 3, & 2, & 1^{13} \end{bmatrix} $	
[18, 2, 1]		211144		$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
	$1T_1, 2T_1, 18T_{930}^*$	$21T_{145}^{+}$	23514624		
[18, 2, 1]	$1T_1, 2T_1, 18T_{930}^*$	$21T_{147}$	47029248	$[21, 18, 12, 3^4, 2^7, 1^7]$	
[18, 2, 1]	$1T_1, 2T_1, 18T_{960}$	$21T_{148}^{+}$	352719360	$[21, 18, 15, 12, 9, 3^2, 2^6, 1^8]$	
[18, 2, 1]	$1T_1, 2T_1, 18T_{960}$	$21T_{151}$	705438720	$[21, 18, 15, 12, 9, 3^2, 2^7, 1^7]$	
[18, 2, 1]	$1T_1, 2T_1, 18T_{962}$	$21T_{149}$	705438720	$[21, 18, 15, 12, 9, 6, 3, 2^6, 1^8]$	
[18, 2, 1]	$1T_1, 2T_1, 18T_{962}$	$21T_{150}^{+}$	705438720	$[21, 18, 15, 12, 9, 6, 3, 2^6, 1^8]$	
[18, 2, 1]	$1T_1, 2T_1, 18T_{962}$	$21T_{152}$	1410877440	$[21, 18, 15, 12, 9, 6, 3, 2^7, 1^7]$	
$[7^2, 3^2, 1]$	$1T_1, (3T_1^{+*})^2, (7T_3^{+*})^2$	$21T_{21}^{+*}$	441	$[21, 7, 3, 1^{18}]$	
$[7^2, 3^2, 1]$	$1T_1, (3T_1^{+*})^2, (7T_3^{+*})^2$	$21T_{34}^{+*}$	3087	$[21, 7^2, 3, 1^{17}]$	
$[7^2, 3^2, 1]$	$1T_1, (3T_1^{+*})^2, (7T_3^{+*})^2$	$21T_{35}^{+*}$	3087	$[21, 7^2, 3, 1^{17}]$	
$[7^2, 3^2, 1]$	$1T_1, (3T_1^{+*})^2, (7T_3^{+*})^2$	$21T_{48}^{+*}$	9261	$[21, 7^2, 3^2, 1^{16}]$	
$[7^2, 3^2, 1]$	$1T_1, (3T_1^{+*})^2, (7T_3^{+*})^2$	$21T_{49}^{+*}$	9261	$[21, 7^2, 3^2, 1^{16}]$	
$[7^2, 3^2, 1]$	$1T_1, (3T_1^{+*})^2, (7T_3^{+*})^2$	$21T_{73}^{+*}$	27783	$[21, 7^2, 3^3, 1^{15}]$	
$[14, 3^2, 1]$	$1T_1, (3T_1^{+*})^2, 14T_4^*$	$21T_{26}^*$	882	$[21, 14, 3, 1^{18}]$	
$[14, 3^2, 1]$	$1T_1, (3T_1^{+*})^2, 14T_{14}^*$	$21T_{40}^*$	6174	$[21, 14, 7, 3, 1^{17}]$	
$[14, 3^2, 1]$	$1T_1, (3T_1^{+*})^2, 14T_{26}^*$	$21T_{65}^*$	18522	$[21, 14, 7, 3^2, 1^{16}]$	
$[14, 3^2, 1]$	$1T_1, (3T_1^{+*})^2, 14T_{26}^*$	$21T_{90}^*$	55566	$[21, 14, 7, 3^3, 1^{15}]$	
$[8^2, 4, 1]$	$1T_1, 4T_3^*, (8T_6^*)^2$	$21T_{20}$	336	$[21, 8, 2, 1^{18}]$	
$[7^2, 6, 1]$	$1T_1, 6T_1^*, (7T_4^*)^2$	$21T_{24}^*$	882	$[21, 7, 6, 1^{18}]$	
$[7^2, 6, 1]$	$1T_1, 6T_1^*, (7T_4^*)^2$	$21T_{42}^*$	6174	$[21, 7^2, 6, 1^{17}]$	
$[7^2, 6, 1]$	$1T_1, 6T_1^*, (7T_4^*)^2$	$21T_{43}^*$	6174	$[21, 7^2, 6, 1^{17}]$	
$[7^2, 6, 1]$	$1T_1, 6T_1^*, (7T_4^*)^2$	$21T_{53}^{+*}$	12348	$[21, 7^2, 6, 2, 1^{16}]$	
$[7^2, 6, 1]$	$1T_1, 6T_1^*, (7T_4^*)^2$	$21T_{54}^{+*}$	12348	$[21, 7^2, 6, 2, 1^{16}]$	
$[7^2, 6, 1]$	$1T_1, 6T_1^*, (7T_4^*)^2$	$21T_{63}^{*}$	18522	$[21, 7^2, 6, 3, 1^{16}]$	
$[7^2, 6, 1]$	$1T_1, 6T_1^*, (7T_4^*)^2$	$21T_{66}^{*}$	18522	$[21, 7^2, 6, 3, 1^{16}]$	
$[7^2, 6, 1]$	$1T_1, 6T_1^*, (7T_4^*)^2$	$21T_{70}^{*}$	24696	$[21, 7^2, 6, 2^2, 1^{15}]$	
$[7^2, 6, 1]$	$1T_1, 6T_1^*, (7T_4^*)^2$	$21T_{71}^*$	24696	$[21, 7^2, 6, 2^2, 1^{15}]$	
$[7^2, 6, 1]$	$1T_1, 6T_1^*, (7T_4^*)^2$	$21T_{83}^{+*}$	37044	$[21, 7^2, 6^2, 1^{16}]$	
$[7^2, 6, 1]$	$1T_1, 6T_1^*, (7T_4^*)^2$	$21T_{84}^{+*}$	37044	$[21, 7^2, 6^2, 1^{16}]$	
$[7^2, 6, 1]$	$1T_1, 6T_1^*, (7T_4^*)^2$	$21T_{89}^{*}$	55566	$[21, 7^2, 6, 3^2, 1^{15}]$	
$[7^2, 6, 1]$	$1T_1, 6T_1^*, (7T_4^*)^2$	$21T_{94}^{*}$	74088	$[21, 7^2, 6^2, 2, 1^{15}]$	
$[7^2, 6, 1]$	$1T_1, 6T_1^*, (7T_4^*)^2$	$21T_{96}^{*}$	74088	$[21, 7^2, 6^2, 2, 1^{15}]$	
$[7^2, 6, 1]$	$1T_1, 6T_1^*, (7T_4^*)^2$	$21T_{101}^{+*}$	111132	$\frac{[21, 7^2, 6^2, 3, 1^{15}]}{[21, 7^2, 6^2, 3, 1^{15}]}$	
$[7^2, 6, 1]$	$1T_1, 6T_1, (7T_4)^2$	$21T_{109}^*$	222264	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$[7^2, 6, 1]$	$1T_1, 6T_1, (1T_4)$ $1T_1, 6T_7^{+*}, (7T_5^+)^2$	$21T_{143}^{+}$	14224896	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$[7^2, 6, 1]$	$1T_1, 6T_7^+, (7T_6^+)^2$	$21T_{143}^{+}$ $21T_{153}^{+}$	48009024000	$[21, 7^2, 6^3, 5^3, 4^3, 3^3, 1^6]$	
$[7^2, 6, 1]$	$1T_1, 6T_{15}, (7T_6)$ $1T_1, 6T_{16}, (7T_7)^2$	$21T_{153}$ $21T_{154}$	96018048000	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	
$[7^2, 6, 1]$	$1T_1, 6T_{16}, (7T_7)^2$	$21T_{154}^{+}$ $21T_{158}^{+}$	192036096000	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$[7^2, 6, 1]$	$1T_1, 6T_{16}, (7T_7)^2$	$21T_{158}$ $21T_{159}$	384072192000	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	
[14, 6, 1]		$21T_{159}$ $21T_{25}^{+*}$	882	$ \begin{array}{c} [21, 7, 6, 1^{18}] \\ \hline [21, 7, 6, 1^{18}] \end{array} $	
[14, 6, 1]	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$21T_{25}$ $21T_{29}^*$	1764	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
[14, 6, 1]	$1T_1, 6T_1, 14T_7$ $1T_1, 6T_1^*, 14T_{14}^*$	$21T_{29}$ $21T_{41}^{+*}$	6174	$[21, 7^2, 6, 1^{17}]$	
	•				
$G$ : Possible Galois Groups, $D(G)$ : Degrees of factors, $S(G)$ : Galois Groups of factors, $\mathcal{L}(G)$ : Initial Degrees					

Splitting table of degree 21

D(O)	C(G)		101	C(C)	
D(G)	S(G)	G		$\mathcal{L}(G)$	
[14, 6, 1]	$1T_1, 6T_1^*, 14T_{24}^*$	$21T_{55}^{*}$	12348	$[21, 14, 7, 6, 1^{17}]$	
[14, 6, 1]	$1T_1, 6T_1^*, 14T_{26}^*$	$21T_{64}^{+*}$	18522	$[21, 7^2, 6, 3, 1^{16}]$	
[14, 6, 1]	$1T_1, 6T_1^*, 14T_{26}^*$	$21T_{88}^{+*}$	55566	$[21, 7^2, 6, 3^2, 1^{15}]$	
[14, 6, 1]	$1T_1, 6T_1^*, 14T_{32}^*$	$21T_{69}^*$	24696	$[21, 14, 7, 6, 2, 1^{16}]$	
[14, 6, 1]	$1T_1, 6T_1^*, 14T_{32}^*$	$21T_{72}^{+*}$	24696	$[21, 14, 7, 6, 2, 1^{16}]$	
[14, 6, 1]	$1T_1, 6T_1^*, 14T_{32}^*$	$21T_{87}^*$	49392	$[21, 14, 7, 6, 2^2, 1^{15}]$	
[14, 6, 1]	$1T_1, 6T_1^*, 14T_{37}^*$	$21T_{82}^*$	37044	$[21, 14, 7, 6, 3, 1^{16}]$	
[14, 6, 1]	$1T_1, 6T_1^*, 14T_{37}^*$	$21T_{102}^*$	111132	$[21, 14, 7, 6, 3^2, 1^{15}]$	
[14, 6, 1]	$1T_1, 6T_1^*, 14T_{45}^*$	$21T_{95}^{+*}$	74088	$[21, 14, 7, 6^2, 1^{16}]$	
[14, 6, 1]	$1T_1, 6T_1^*, 14T_{45}^*$	$21T_{97}^*$	74088	$[21, 14, 7, 6^2, 1^{16}]$	
[14, 6, 1]	$1T_1, 6T_1^*, 14T_{45}^*$	$21T_{106}^*$	148176	$[21, 14, 7, 6^2, 2, 1^{15}]$	
[14, 6, 1]	$1T_1, 6T_1^*, 14T_{45}^*$	$21T_{108}^{+*}$	222264	$[21, 14, 7, 6^2, 3, 1^{15}]$	
[14, 6, 1]	$1T_1, 6T_1^*, 14T_{45}^*$	$21T_{110}^*$	222264	$[21, 14, 7, 6^2, 3, 1^{15}]$	
[14, 6, 1]	$1T_1, 6T_1^*, 14T_{45}^*$	$21T_{116}^*$	444528	$[21, 14, 7, 6^3, 1^{15}]$	
[14, 6, 1]	$1T_1, 6T_7^{+*}, 14T_{52}$	$21T_{146}$	28449792	$[21, 14, 7, 6^3, 4^3, 1^{12}]$	
[14, 6, 1]	$1T_1, 6T_{15}^+, 14T_{58}$	$21T_{156}$	96018048000	$ \begin{array}{c} [21, 14, 7, 6^3, 5^3, 4^3, 3^3, 1^6] \\ [21, 7^2, 6^3, 5^3, 4^3, 3^3, 2, 1^5] \end{array} $	
[14, 6, 1]	$1T_1, 6T_{16}, 14T_{58}$	$21T_{155}^{+}$	96018048000	$[21, 7^2, 6^3, 5^3, 4^3, 3^3, 2, 1^5]$	
[14, 6, 1]	$1T_1, 6T_{16}, 14T_{60}$	$21T_{157}$	192036096000	$[21, 14, 7, 6^3, 5^3, 4^3, 3^3, 2, 1^5]$	
[14, 6, 1]	$1T_1, 6T_{16}, 14T_{61}$	$21T_{160}$	384072192000	$[21, 14, 7, 6^3, 5^3, 4^3, 3^3, 2^2, 1^4]$	
[14, 6, 1]	$1T_1, 6T_{16}, 14T_{61}$	$21T_{161}^{+}$	384072192000	$[21, 14, 7, 6^3, 5^3, 4^3, 3^3, 2^2, 1^4]$	
[14, 6, 1]	$1T_1, 6T_{16}, 14T_{61}$	$21T_{162}$	768144384000	$[21, 14, 7, 6^3, 5^3, 4^3, 3^3, 2^3, 1^3]$	
$[10^2, 1]$	$1T_1, 10T_{12}, 10T_{13}$	$21T_{33}^{+}$	2520	$[21, 10, 4, 3, 1^{17}]$	
$[10^2, 1]$	$1T_1, 10T_{13}, 10T_{22}$	$21T_{38}$	5040	$[21, 10, 4, 3, 2, 1^{16}]$	
[20, 1]	$1T_1, 20T_{175}^+$	$21T_{67}^{+}$	20160	$[21, 20, 16, 3, 1^{17}]$	
[20, 1]	$1T_1, 20T_{217}$	$21T_{85}$	40320	$[21, 20, 16, 3, 2, 1^{16}]$	
[20, 1]	$1T_1, 20T_{267}^+$	$21T_{91}^{+}$	60480	$[21, 20, 16, 9, 1^{17}]$	
[20, 1]	$1T_1, 20T_{358}$	$21T_{103}$	120960	$[21, 20, 16, 9, 2, 1^{16}]$	
[20, 1]	$1T_1, 20T_{1116}^+$	$21T_{163}^{+}$	21! / 2	$[21, \ldots, 3, 1^2]$	
[20, 1]	$1T_1, 20T_{1117}$	$21T_{164}$	21!	$[21,\ldots,1]$	
$G$ : Possible Galois Groups, $D(G)$ : Degrees of factors, $S(G)$ : Galois Groups of factors, $\mathcal{L}(G)$ : Initial Degrees					

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