

Impurity analysis of synthetic diamond for electronics and quantum physics

E. Loire, François Jomard, M.A. Pinault-Thaury

► To cite this version:

E. Loire, François Jomard, M.A. Pinault-Thaury. Impurity analysis of synthetic diamond for electronics and quantum physics. 24th International Conference on Secondary Ion Mass Spectrometry (SIMS-24), Sep 2024, La Rochelle, France. hal-04749557

HAL Id: hal-04749557 https://hal.science/hal-04749557v1

Submitted on 23 Oct 2024

HAL is a multi-disciplinary open access archive for the deposit and dissemination of scientific research documents, whether they are published or not. The documents may come from teaching and research institutions in France or abroad, or from public or private research centers. L'archive ouverte pluridisciplinaire **HAL**, est destinée au dépôt et à la diffusion de documents scientifiques de niveau recherche, publiés ou non, émanant des établissements d'enseignement et de recherche français ou étrangers, des laboratoires publics ou privés.



Impurity analysis of synthetic diamond for electronics and quantum physics

Estelle LOIRE, François JOMARO, Marie-Amandine PINAULT-THAURY

UVSQ

GEMaC

Groupe d'Etude de la Matière Condensée (GEMaC-UMR8635), CNRS, Université de Versailles St-Quentin-En-Yvelines (UVSQ), Université Paris-Saclay 45 av des Etats-Unis - 78035 Versailles Cedex - France



With more than 20 years of diamond synthesis and physical studies in GEMaC, the SIMS analysis is well controlled over a large range of elements with the use of dedicated implanted standards and lab samples.

