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Orbital elements of double stars: ADS 11979, ADS 12144 and ADS 12515

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INTERNATIONAL ASTRONOMICAL UNION COMMISSION 26

(DOUBLE STARS)

INFORMATION CIRCULAR No. 144 (JUNE 2001)

NEW ORBITS

ADS α 2000 δ	Name n	P a	T i	e ω	Ω (2000) Last ob.	2001 2002	Authors
149 00122+4647	A 802 1°3357	269 ^y 52 0"260	1972.51 108°8	0.511 266°6	125°6 1991.25	124°8 0"202 124.2 0.206	MASON & HARTKOPF
00315-6257	I 260 CD 8.0609	44.66 0.404	2012.84 146.9	0.740 303.7	63.3 1999.7839	273.9 0.560 271.4 0.541	MASON & HARTKOPF
691 00508+3203	A 922 3.3822	106.44 0.786	2058.04 83.8	0.990 286.7	178.8 1999.731	338.5 0.464 338.6 0.467	MASON & HARTKOPF
1865 02278+0426	A 2329 14.2180	25.32 0.559	1988.16 73.3	0.237 233.2	108.7 1996.6965	130.9 0.430 139.1 0.351	ANDRADE
2911 03591+0948	HU 27 0.9344	385.26 0.849	2038.01 73.6	0.692 263.1	170.8 1997.07	321.4 0.345 322.5 0.348	LING
3438 04475+4324	A 1544 AB 0.4.6869	76.81 0.159	1961.22 133.5	0.423 93.6	125.3 1995.08	205.9 0.157 202.9 0.157	DOCOBO
05248-5219	I 345 1.8848	191.0 0.300	1994.17 142.7	0.640 38.4	52.1 1993.09	306.6 0.11 298.8 0.12	ALZNER & ARGYLE
05372+4148	MLR 314 7.6989	46.76 0.251	1985.61 65.4	0.564 280.0	160.7 1993.2023	223.6 0.164 229.9 0.161	MANTE
06048-4828	DUN 23 1.1834	304.2 3.26	2047.34 73.0	0.592 87.1	132.4 1997.095	119.5 2.60 119.9 2.59	SCARDIA
5042 06256+2227	STT 139 0.9992	360.3 0.674	1929.06 56.6	0.894 276.3	183.8 1997.410	255.9 0.54 256.3 0.54	SCARDIA
5752 07043-0303	A 519 7.8363	45.94 0.323	2019.54 101.1	0.564 44.6	101.6 1997.10	255.5 0.185 251.1 0.159	DOCOBO & LING

NEW ORBITS (continuation)

ADS α2000δ	Name n	P a	T i	e ω	Ω(2000) Last ob.	2001 2002	Authors
7010 08486+0237	A 2551 5.1754	69.56 0.165	1950.27 47.4	0.706 103.1	121.6 1990.03	78.1 0.191 80.0 0.189	MASON & HARTKOPF
09243-3926	FIN 348 0.7666	469.61 0.492	2443.09 121.3	0.706 12.7	90.9 1993.0955	320.2 0.179 318.2 0.187	MASON & HARTKOPF
09307-4028	COP 1 10.6038	33.95 0.862	1969.68 58.0	0.433 44.3	291.0 1997.1176	278.1 0.566 290.4 0.537	MASON & HARTKOPF
7780 10279+3642	HU 879 9.3216	38.62 0.363	1999.15 79.1	0.668 29.8	41.5 1997.1259	197.9 0.082 210.3 0.169	MASON & HARTKOPF
7846 10361-2641	BU 411 2.1159	170.14 0.886	1948.39 128.2	0.765 37.9	145.1 1998.140	310.6 1.337 310.2 1.343	SCARDIA
8048 11047-0413	A 676 BC 15.4972	23.23 0.343	1995.22 62.6	0.119 111.2	71.7 1997.2682	269.1 0.301 279.5 0.266	DOCOBO & LING
14459+2344	COU 100 4.9234	73.12 0.297	2016.11 106.4	0.754 79.6	196.1 1997.2740	238.8 0.154 235.5 0.157	MASON & HARTKOPF
14459+2344	COU 100 5.4595	65.94 0.254	2013.83 110.3	0.653 254.1	8.8 1997.449	229.2 0.149 225.1 0.152	MANTE
9730 15370+6426	HU 1168 4.0545	88.79 0.392	1984.66 121.7	0.620 50.7	129.1 1997.52	305.3 0.436 304.0 0.449	DOCOBO & LING
9918 16057-0617	FIN 384 Aa 72.7272	4.95 0.071	1988.94 116.0	0.619 76.3	147.8 1996.1842	278.3 0.061 233.4 0.048	MASON & HARTKOPF
A 9970 16128+3922	STF 2028 3.1579	114.0 0.380	1992.65 81.4	0.570 212.6	145.0 1992.22	129.8 0.12 132.8 0.15	ALZNER
16193-4240	SEE 271 5.0293	71.58 0.383	1993.89 62.3	0.682 71.4	256.3 1991.25	81.3 0.303 83.8 0.324	MASON & HARTKOPF
18068-4325	HJ 5014 0.8000	450.0 2.04	1854.7 123.1	0.650 282.7	85.8 1999.79	6.7 1.70 6.2 1.70	ALZNER & ARGYLE

NEW ORBITS (continuation)

ADS α 2000 δ	Name n	P a	T i	e ω	Ω (2000) Last ob.	1998 1999	Authors
11979 19021+5216	HU 757 BC 3.1061	115.9 0.234	1991.06 115.0	0.284 217.4	84.6 1998.679	171.1 0.078 160.2 0.081	SCARDIA et al. (*)
11998 19039+2642	A 2992 3.6364	99.00 0.256	1951.17 114.5	0.835 255.0	125.9 1997.471	68.4 0.223 67.3 0.221	DOCOBO & LING
12144 19106+5429	A 1391 2.6068	138.1 0.251	1979.71 50.2	0.396 175.7	64.4 1998.679	345.6 0.15 349.8 0.15	SCARDIA et al. (*)
12515 19296+1224	A 1653 1.4652	245.7 0.215	1875.18 178.0	0.017 179.7	170.0 1998.673	166.1 0.22 164.7 0.22	SCARDIA et al. (*)
21536-1019	FIN 358 7.1842	50.11 0.089	1976.55 31.5	0.828 117.1	178.2 1996.5348	118.4 0.143 119.7 0.144	MASON & HARTKOPF
11296 18236-2610	HO 566 3.8330	93.91 0.386	1970.51 106.4	0.785 236.9	159.8 1991.3927	144.6 0.470 144.2 0.469	MASON & HARTKOPF

(*) SCARDIA, PRIEUR, KOECHLIN and ARISTIDI

ANNOUNCEMENT

The Ramón María Aller Observatory at the University of Santiago de Compostela, Spain, has completed its first Catalogue of Orbits and Ephemerides of Visual Double Stars. At the International Workshop held in Santiago de Compostela in 1996 it was announced that this Catalogue would be heir to the ephemerides catalogues edited at the Nice Observatory by Muller, Meyer, and Couteau, Morel and Fulconis; however, it has been extended to include orbits, and now lists orbits up to the end of the year 2000.

In our orbital selection, it has been our basic criterion to not replace any early orbit except for those reasonably improved by subsequent one. We believe that it will make a welcome companion to the USNO 5th Orbit Catalog, of interest to both Commission 26 members and astronomers in general.

In all, the new Catalogue contains 1545 orbits for 1208 systems. Each binary has been assigned a letter (A, B or C) indicating its current status as regards the possibility of calculating a reliable orbit. This classification has been carried out on the basis of the arc described, the number and nature of the available observations, and/or whether closely similar orbits have been calculated independently by different authors. Notes indicate the existence of other components of the system, whether it is also a spectroscopic binary, whether it has an astrometric orbit, etc.

The elements of each orbit are accompanied by a reference to the original publication, the ephemerides will be predicted within the next few years, and letters indicating such information as the equinox to which the node is referred, or whether the elements of the orbit as originally published were flawed by typographical errors. New orbits will be included as they become available.

The Catalogue may be consulted on-line via internet at <http://www.usc.es/astro/catalog>

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The deadline for contributions to Information Circular No. 145 is:

October 15th 2001

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