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Orbital elements of double stars: ADS 7775, 9578 and 14412

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INTERNATIONAL ASTRONOMICAL UNION COMMISSION 26

(DOUBLE STARS)

INFORMATION CIRCULAR No. 180 (JUNE 2013)

NEW ORBITS

ADS α 2000 δ	Name n	P a	T i	e ω	Ω (2000) Last ob.	2013 2014	Author(s)
- 00021-6817	I 699 1°2414	290 ^y 0 2''738	1884.54 57°7	0.65 207°1	117°8 2000.5800	129°7 4''258 129.9 4.256	ZIRM
- 00335-5520	I 45 AB 0.5413	665.1 0.736	1773.66 129.9	0.023 16.2	1.2 2008.5431	203.2 0.682 202.8 0.684	ZIRM
- 01089-2937	I 262 0.5422	663.9 0.939	1398.89 130.9	0.369 1.2	34.7 2008.5460	79.2 0.526 78.2 0.528	ZIRM
- 05270-6837	I 276 0.4526	795.5 1.704	1869.63 129.5	0.887 112.3	74.8 2008.7530	159.3 1.446 159.1 1.452	ZIRM
5407 06450+1045	A 2825 0.7109	506.4 0.390	2011.1 103.7	0.342 354.4	172.2 2012.2270	172.8 0.256 172.5 0.257	ZIRM
7524 09487-2625	I 205 0.7809	461.0 2.277	1868.7 140.2	0.0 0.0	43.5 2001.0797	284.9 1.838 284.0 1.844	ZIRM
7775 10269+1713	STT 217 2.5753	139.8 0.470	1966.98 47.3	0.984 219.9	121.2 2012.380	148.2 0.774 148.4 0.779	SCARDIA et al. (*)
- 10269+1931	COU 292 14.3885	25.02 0.149	1981.60 138.4	0.592 215.1	61.7 2006.2814	59.4 0.194 54.6 0.206	DOCOBO & LING
8480 12154+4008	A 1999 1.7999	200.01 0.983	2014.08 58.0	0.589 279.4	198.1 2012.228	108.4 0.215 124.2 0.220	RICA
- 13134-5042	I 1227 3.5685	100.88 0.317	1981.74 133.2	0.647 90.2	26.2 2006.1998	144.8 0.341 143.2 0.343	ZIRM
- 13327+2230	HDS 1898 11.6637	30.87 0.245	1998.89 67.8	0.718 93.0	238.3 2012.228	146.5 0.158 153.8 0.160	RICA

NEW ORBITS (continuation)

ADS α2000δ	Name n	P a	T i	e ω	Ω(2000) Last ob.	2013 2014	Author(s)
9492 15041-0653	HO 391 AB 0.6716	536. 2.263	2016.7 128.1	0.376 70.4	107.7 2009.2657	55.5 0.996 53.4 0.982	LING
9578 15183+2650	STF 1932 AB 1.7725	203.1 1.210	1941.48 58.6	0.653 51.3	63.8 2013.307	264.4 1.623 264.8 1.622	SCARDIA et al. (*)
- 15420+4203	COU 1445 5.0999	70.59 0.263	1993.39 81.1	0.991 284.6	64.7 2005.5152	207.8 0.115 208.3 0.119	DOCOBO & LING
- 16094-3103	I 557 1.9473	184.87 0.425	2003.34 73.7	0.867 215.0	195.6 2008.5479	192.3 0.254 193.0 0.273	ZIRM
- 16584+3943	COU 1289 22.3742	16.09 0.075	2001.07 113.0	0.753 154.3	63.2 2010.4677	65.0 0.109 61.9 0.095	DOCOBO & LING
- 17081-4137	I 407 1.2315	292.32 0.574	1979.86 101.4	0.772 135.6	180.7 2009.2606	257.2 0.108 253.0 0.112	ZIRM
10819 17500+0031	A 2186 2.1083	170.75 0.535	1902.46 97.9	0.857 274.1	41.5 2012.537	253.7 0.236 252.9 0.240	ZIRM
14396 20527+4607	A 750 AB 11.8227	30.45 0.212	2013.49 128.7	0.723 351.6	65.9 2009.6209	108.3 0.052 37.9 0.059	DOCOBO & CAMPO
14412 20537+5918	A 751 6.3302	56.87 0.169	1976.04 130.6	0.591 276.2	177.3 2011.895	52.7 0.181 49.8 0.181	SCARDIA et al. (*)
15599 22045+1551	BU 696 AB 2.2465	160.3 0.386	2006.74 84.9	0.909 46.4	172.2 2012.5346	352.5 0.202 352.8 0.222	RICA
- 22493+1517	HDS 3241 3.4286	105.0 0.253	2005.5 50.9	0.731 354.2	136.2 2010.4765	254.4 0.115 260.8 0.129	DOCOBO & CAMPO
16850 23357-2729	SEE 492 4.6723	77.05 0.559	1968.16 47.5	0.506 107.5	74.3 2010.9681	23.5 0.630 25.6 0.634	DOCOBO & CAMPO

(*) SCARDIA, PRIEUR, PANSECCHI & ARGYLE

NEW LINEAR FITS

Author: ZIRM, H.

ADS α 2000 δ	Name -	X_0 Y_0	X_A Y_A	ρ_0 θ_0	T_0 Last ob.	2013 2014
-	I 1107 AB	0.790	-0.00636	0.954	1974.662	31.4 1.048
09223-5428	-	-0.535	-0.00938	55.9	1996.178	30.8 1.053
7635	I 293	0.004	0.00246	0.005	2027.889	326.6 0.060
10052-2812	-	-0.003	0.00316	52.1	1993.090	326.9 0.056
7852	I 857	-0.232	0.00122	0.252	2015.494	248.8 0.252
10366-2846	-	0.098	0.00289	247.0	1998.142	248.1 0.252
-	I 221	0.311	0.00424	0.516	1938.555	105.5 0.650
13368-3224	-	0.411	-0.00320	142.9	1998.140	105.1 0.653
-	I 121 Aa,Ab	0.521	-0.00186	0.537	1925.059	155.7 0.869
19507-5912	-	0.129	0.00754	103.9	1999.784	156.0 0.875

NOTE

Information for two orbits announced by Mason, Farrington & Brummelaar in the previous IAUDS Circular No. 179

- WDS 19091+3436 : Combined solution orbit. $Mass_a = 0.802 \pm 0.055 M_\odot$, $Mass_b = 0.622 \pm 0.053 M_\odot$, orbital parallax = 28.26 ± 1.70 mas.
- WDS 22038+6438 : Combined solution orbit. $Mass_a = 1.045 \pm 0.031 M_\odot$, $Mass_b = 0.408 \pm 0.066 M_\odot$, orbital parallax = 38.10 ± 2.81 mas.

Misprint in the information Circular No. 179

For WDS03496+6318 - CAR 1 the authors are : Zirm & Horch (not Zirm & Horsch).

The deadline for contributions to Information Circular No. 181 is:

October 15th 2013

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