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Orbital elements of double stars: ADS 1548

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INTERNATIONAL ASTRONOMICAL UNION
COMMISSION G1 (BINARY AND MULTIPLE STAR SYSTEMS)
DOUBLE STARS INFORMATION CIRCULAR No. 194 (FEBRUARY 2018)

NEW ORBITS

ADS α2000δ	Name n	P a	T i	e ω	Ω(2000) Last ob.	2018 2019	Author(s)
1548 01570+3101	A 819 AB 2°6587	135 ^y 4 0''424	2011.06 50°5	0.548 189°7	153°8 2017.833	39°7 0''161 49.4 0.163	SCARDIA et al. (*)
- 02332-5156	HDS 333 7.2665	49.54 0.413	1981.14 57.4	0.60 150.9	252.6 2018.073	253.8 0.542 255.7 0.519	TOKOVININ
- 03423+3141	COU 691 5.8290	61.76 0.160	1964.53 65.2	0.059 284.8	68.6 2014.9402	276.2 0.109 282.0 0.099	DOCOBO & LING
- 04180-3826	HDS 546 47.58	7.566 0.122	2017.921 114.6	0.271 36.9	64.1 2018.073	42.5 0.069 282.7 0.064	TOKOVININ
- 04506+1505	CHR 20 62.7834	5.734 0.089	2003.862 116.7	0.066 95.0	130.5 2015.9104	233.4 0.043 151.2 0.076	DOCOBO & CAMPO
- 05272+1758	MCA 19 Aa,Ab 22.3187	16.130 0.075	2014.753 108.2	0.822 138.0	73.8 2015.9105	107.0 0.052 100.7 0.068	DOCOBO et al (**)
- 05465+7437	YSC 148 32.2870	11.150 0.168	2005.960 43.0	0.326 138.5	355.5 2013.8813	185.7 0.125 224.1 0.129	DOCOBO et al (***)
- 05525-0217	HDS 787 30.3183	11.874 0.119	2011.632 58.8	0.243 89.0	152.7 2016.9591	76.4 0.078 107.1 0.092	DOCOBO et al (**)
- 05536-5640	FIN 93 Aa,Ab 4.6846	78.1 0.313	2042.89 69.9	0.55 117.2	164.6 2018.085	150.5 0.356 151.5 0.358	TOKOVININ
- 06073+2641	MCA 25 8.4209	42.751 0.075	1996.438 39.8	0.330 342.5	4.0 2013.8807	171.1 0.098 174.6 0.099	DOCOBO et al (**)
- 06255+2320	MCA 26 8.4032	42.841 0.087	2020.594 82.5	0.074 236.8	149.3 2013.8834	333.9 0.069 335.8 0.061	DOCOBO et al (**)

NEW ORBITS (continuation)

ADS α 2000 δ	Name n	P a	T i	e ω	Ω (2000) Last ob.	2018 2019	Author(s)
- 06502+3624	COU 1738 1.3333	270.0 0.354	2038.58 73.1	0.478 212.9	23.6 2013.8834	189.7 0.188 190.9 0.191	DOCOBO et al (**)
- 07155-7552	I 312 0.720	500 1.297	2012.58 95.9	0.665 94.7	159.4 2018.087	349.4 0.230 347.9 0.262	TOKOVININ
- 07435-2711	B 737 1.8938	190.1 0.230	1972.8 109.2	0.453 137.4	79.9 2018.087	167.1 0.087 163.3 0.089	TOKOVININ
- 09366-2442	FIN 383 45.701	7.88 0.080	2017.41 132.2	0.639 224.2	177.5 2018.073	203.9 0.047 173.3 0.095	TOKOVININ
- 09466-4955	HDS 1414 5.0102	71.9 0.160	2019.2 66.4	0.80 239.9	289.7 2018.087	105.9 0.044 132.8 0.024	TOKOVININ
- 09488-5237	B 1663 1.220	295 1.912	1808.15 103.3	0.40 259.1	125.5 2018.087	328.7 1.197 328.0 1.215	TOKOVININ
- 10121-0241	DEL 3 47.3008	7.611 0.293	2016.875 93.3	0.751 274.1	68.9 2018.087	63.9 0.175 56.6 0.116	TOKOVININ
- 10544+3840	COU 1746 6.1517	58.52 0.224	1972.67 19.2	0.845 22.2	113.2 2012.0999	332.0 0.317 333.6 0.305	LING
- 11101-3822	B 795 3.1304	115 0.514	1982.85 83.2	0.75 192.7	7.8 2016.962	7.4 0.802 7.5 0.811	TOKOVININ
- 13598-0333	HDS 1962 36.5334	9.854 0.072	2018.109 50.7	0.387 235.6	30.3 2015.1716	243.4 0.037 348.1 0.042	DOCOBO et al (**)
- 14020-2108	WSI 79 14.7172	24.46 0.205	2015.22 144.7	0.74 325.1	137.9 2018.087	38.4 0.153 26.6 0.188	TOKOVININ
- 14138+3059	COU 606 13.7143	26.25 0.195	1984.57 138.7	0.312 186.7	58.8 2014.272	93.8 0.197 85.1 0.215	DOCOBO & LING
- 14152-6739	DON 652 2.8324	127.1 0.634	2023.46 78.8	0.90 15.3	84.1 2017.285	281.7 0.192 285.1 0.148	TOKOVININ
- 14453-3609	I 528 AB 10.8977	33.03 0.090	2023.633 61.1	0.649 78.0	176.5 2017.432	138.3 0.065 146.0 0.064	TOKOVININ

NEW ORBITS (continuation)

ADS α 2000 δ	Name n	P a	T i	e ω	Ω (2000) Last ob.	2018 2019	Author(s)
- 15432-4443	I 403 1.5950	225.7 1.110	2086.2 78.0	0.50 52.0	16.7 2017.536	252.1 0.369 254.8 0.357	TOKOVININ
- 17011-4204	B 1841 2.2324	161.26 0.151	2045.345 74.9	0.597 30.0	165.2 2017.681	39.3 0.050 43.9 0.047	TOKOVININ
- 17194-4413	HDO 269 0.2118	1700 0.806	1999.5 72.4	0.949 112.7	27.7 2017.536	234.5 0.105 235.6 0.106	TOKOVININ
- 17221-7007	FIN 373 2.2500	160 0.140	1998.2 104.2	0.203 55.3	288.2 2017.285	131.8 0.066 129.6 0.071	TOKOVININ
- 17286-2531	B 129 1.0113	356 0 0.688	2013.7 52.4	0.862 126.5	133.0 2017.681	330.2 0.144 336.8 0.155	TOKOVININ
- 17297-4947	I 1323 8.4803	42.5 0.224	2000.85 46.8	0.58 167.9	138.2 2017.681	121.5 0.329 123.6 0.336	TOKOVININ
- 17584+0428	KUI 84 24.4615	14.717 0.170	1986.75 61.1	0.513 10.8	171.3 2015.5406	305.6 0.088 327.9 0.148	DOCOBO & LING
- 18190-4759	B 936 4.1267	87.24 0.384	2003.09 103.4	0.561 226.9	162.1 2015.541	163.5 0.395 162.8 0.411	TOKOVININ
- 19305-3149	B 972 1.7078	210.8 0.152	2010.98 144.8	0.681 275.0	183.0 2017.373	195.7 0.065 190.5 0.069	TOKOVININ
- 19491-6149	I 120 AB 5.6174	64.09 0.324	1996.49 141.2	0.687 139.5	118.7 2017.537	168.3 0.431 166.5 0.440	TOKOVININ
- 21310-3633	B 1008 AB 4.8520	74.20 0.228	2020.43 101.6	0.580 162.1	32.1 2017.827	237.7 0.047 224.9 0.068	TOKOVININ
15986 22237+2051	STF 2900 0.8843	407.1 2.030	2000.07 91.5	0.827 220.6	180.4 2017.826	181.0 0.980 180.9 1.030	TOKOVININ
- 22321-4244	I 1445 4.5162	79.7 0.336	1999.1 97.6	0.857 65.8	179.1 2017.433	350.3 0.330 350.0 0.331	TOKOVININ

(*) SCARDIA, PRIEUR, PANSECCHI, ARGYLE, LING, ARISTIDI, ZANUTTA, ABE, BENDJOYA, RIVET, SUAREZ & VERNET

(**) DOCOBO, CAMPO & GÓMEZ

(***) DOCOBO, CAMPO, ANDRADE & HORCH

NEW DOUBLE STARS

Discovered by A. Debackère using LCOGT global telescope network.

- FTN : Faulkes Telescope North T2m, Haleakala, Hawaii, LCOGT
- FTS : Faulkes Telescope South T2m, Siding Spring, Australia, LCOGT
- K93 : T1m, Sutherland, South Africa, LCOGT

STAR	Precise Coord	UCAC4	Mag. V band B band	Epoch	θ ($^{\circ}$)	ρ ($''$)	Obs
DBR 272	064325.32+225027.1	565-031650	13.4 15.0	2017.145	218.8	3.01	1 K93
DBR 273	064802.28+225116.1	565-032624	14.2 15.0	2017.206	327.2	1.40	1 FTN
DBR 274	065304.97+223627.1	564-033913	12.0 13.2	2017.231	56.6	5.14	1 FTN
DBR 275	065339.06+224515.6	564-034029	11.8 14.0	2017.231	185.9	1.04	1 FTN
DBR 276	065957.60+222734.4	563-037002	11.8 13.0	2017.256	309.2	4.93	1 FTS
DBR 277 AB	071554.24-115914.5	391-024313	<u>13.2</u> <u>14.1</u>	2017.901	256.4	2.57	1 FTS
DBR 277 AC	071554.24-115914.5	391-024313	<u>13.2</u> <u>14.3</u>	2017.901	351.9	1.05	1 FTS
DBR 278	071810.55-131117.2	385-027959	11.2 11.5	2017.185	171.5	1.52	2 FTS, FTN
DBR 279	071831.28-131720.5	384-028426	14.4 14.8	2017.147	285.4	1.16	1 FTS
DBR 280	071849.84-130854.2	385-028167	12.9 13.9	2017.147	131.7	2.43	1 FTS
DBR 281	083627.83+211853.0	557-045219	9.2 10.4	2017.208	314.3	5.90	3 FTS, FTN
DBR 282	090139.90-692854.5	103-027299	10.9 12.7	2017.234	1.4	2.61	4 FTS
DBR 283	113812.23-631915.2	134-057430	12.8 13.0	2017.152	285.2	2.17	1 FTS
DBR 284	113819.92-632036.5	134-057489	10.0 11.8	2017.152	67.5	5.46	1 FTS
DBR 285	114610.73-592722.2	153-085119	12.6 12.9	2017.310	33.6	1.98	3 FTS
DBR 286	115408.55+521638.9	712-050672	12.0 12.3	2017.204	358.3	2.49	1 FTN
DBR 287	171113.29-253541.7	323-104038	<u>14.2</u> <u>16.6</u>	2017.379	116.5	1.66	1 FTN
DBR 288	171122.96-253104.2	323-104135	<u>14.2</u> <u>15.9</u>	2017.379	340.5	1.99	1 FTN
DBR 289	181220.41+065548.2	485-076417	14.8 15.6	2017.177	241.7	1.28	1 FTS
DBR 290	181828.66-134412.9	382-101606	12.9 13.1	2017.552	84.2	2.57	3 FTN, FTS
DBR 291	181836.45-134719.0	382-101648	12.9 12.9	2017.552	98.9	3.05	3 FTN, FTS
DBR 292	181856.92-134852.2	381-104756	14.1 15.4	2017.552	61.0	2.04	3 FTN, FTS
DBR 293	211659.89+514558.6	709-080831	<u>12.2</u> <u>12.8</u>	2017.5006	198.8	5.46	1 FTN
DBR 294 AB	212955.47+121104.0	511-137196	12.4 13.8	2017.631	348.1	4.07	1 FTN
DBR 294 AC	212955.47+121104.0	511-137196	12.4 14.8	2017.631	330.6	1.90	1 FTN
DBR 295	213000.92+121249.2	512-132466	14.6 15.4	2017.631	4.8	0.82	1 FTN

(1) The first component of TDT 3998 AB (neglected) has a companion not indexed in the WDS which I called DBR 204 AC.

NEW DOUBLE STARS

Discovered by: Kacper Wierzechos using a CCD camera attached to the 0.2m SCT of the Aravaca Observatory, Spain

STAR	Precise Coord.	Durchmusterung	Mag.	Epoch	θ ($^{\circ}$)	ρ ($''$)
WRS 4	001809.53+861452.3	+85 4	10.9 12.7	2018.0616	53.5	4.53
WRS 5	085342.56+851120.1	+85 129	8.6 12.4	2018.0616	329.7	11.70
WRS 6	131537.56+842649.2	+85 221	10.0 11.2	2018.0863	303.2	5.31
WRS 7	164959.00+862941.6	+86 258	9.7 11.5	2018.0863	111.9	4.29

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Errata in Information Circular No. 193

- In the entry for WDS 01337-1213 (HWE 4), the value of the Ω should be 133.7, rather than 3.1
- In the entry for WDS 08486+0237 (A 2551), the value of the Ω should be 182.1, rather than 45.4

The deadline for contributions to Information Circular No. 195 is:

June 15th 2018

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