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Orbital elements of double stars: ADS 8508

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INTERNATIONAL ASTRONOMICAL UNION

COMMISSION G1 (BINARY AND MULTIPLE STAR SYSTEMS)

DOUBLE STARS INFORMATION CIRCULAR No. 191 (FEBRUARY 2017)

NEW ORBITS

ADS α 2000 δ	Name n	P a	T i	e ω	Ω (2000) Last ob.	2017 2018	Author(s)
371 00283+6344	HU 1007AB 0°8552	420 ^y 93 0"674	2016.54 59°1	0.336 32°6	80°3 2009.7550	99°0 0"394 100.3 0.389	MILES & MASON
597 00429+2047	A 2205 0.3207	165.05 0.281	1961.42 138.9	0.776 309.2	126.8 2010.8837	3.0 0.375 2.4 0.378	MILES & MASON
993 01131+2942	A 1260AB 2.6245	137.17 0.288	2029.43 78.1	0.489 274.3	242.2 2009.7261	64.3 0.206 65.2 0.196	MILES & MASON
- 01418+4237	MCY 2 19.8675	18.12 0.631	1993.63 98.8	0.434 144.3	205.0 2002.7773	230.3 0.268 220.6 0.419	MILES & MASON
1371 01450+5707	BU 453AB 0.5424	663.7 1.204	1953.71 32.5	0.689 336.5	14.5 2017.048	110.7 0.799 111.4 0.807	SCARDIA et al. (*)
1630 02039+4220	STT 38BC 5.7480	62.63 0.317	1951.98 104.8	0.874 163.4	103.2 2010.086	138.4 0.065 128.1 0.106	DOCOBO & LING
- 02379+2003	A 2219 1.0417	345.58 0.331	1948.58 132.5	0.906 208.1	155.0 2015.7436	146.4 0.462 146.2 0.466	MILES & MASON
2446 03184-2231	SEE 23 3.0466	118.16 0.340	1934.24 66.6	0.030 333.5	271.6 2016.9591	111.6 0.270 113.5 0.259	MILES & MASON
3093 04153-0739	STF 518BC 1.6051	224.28 6.977	1847.21 107.0	0.444 315.0	151.4 2016.1310	331.1 8.098 330.8 8.024	MILES & MASON
- 04295+2617	SMN 11AB 3.1496	114.3 0.146	1996.55 65.8	0.303 46.4	160.1 2014.0680	324.6 0.121 326.3 0.126	DOCOBO et al (**)
- 05373+6642	MLR 314 6.8658	52.43 0.259	1985.23 60.5	0.574 285.5	155.8 2005.109	293.5 0.254 296.3 0.258	DOCOBO & CAMPO

NEW ORBITS (continuation)

ADS α 2000 δ	Name n	P a	T i	e ω	Ω (2000) Last ob.	2017 2018	Author(s)
5193 06336-1207	HU 43 2.3847	150.96 0.610	1978.83 65.0	0.856 354.9	138.4 2010.0656	309.5 0.892 309.8 0.904	MILES & MASON
5332 06418+3041	A 218 2.2098	162.91 0.239	1888.93 120.7	0.076 280.1	218.8 2008.1040	31.2 0.230 30.0 0.228	MILES & MASON
6548 08050+5825	A 1073 3.1507	114.26 0.250	1971.68 134.5	0.554 218.0	149.4 2009.0627	131.4 0.359 130.5 0.359	MILES & MASON
6828 08285-0231	A 551AB 6.6177	54.40 0.289	2002.13 84.1	0.442 214.4	62.6 2014.3028	62.1 0.352 62.5 0.363	DOCOBO & LING
- 09156-1036	MTG 2 71.7706	5.016 0.181	2013.894 120.9	0.404 264.6	116.2 2016.9647	358.6 0.136 311.4 0.164	MASON & HARTKOPF
7580 09551-2632	I 843AB 1.9112	188.36 1.013	1875.30 130.7	0.591 232.5	204.7 2011.0371	121.0 0.852 119.6 0.841	MILES & MASON
8231 11363+2747	STF 1555AB 0.2081	1730. 3.042	2023.2 86.1	0.778 22.4	149.8 2015.192	150.2 0.683 150.4 0.676	DOCOBO & LING
8508 12194+1744	A 2059 1.4706	244.8 0.647	2040.96 60.1	0.677 82.2	61.1 2016.257	41.4 0.442 42.6 0.437	LING et al (***)
8573 12301-1324	BU 28AB 2.4793	145.20 1.376	1943.95 26.7	0.703 75.9	92.8 2015.0292	347.4 2.108 348.1 2.107	DOCOBO & CAMPO
8573 12301-1324	BU 28AB 2.3851	150.94 1.395	1946.09 29.9	0.702 60.9	112.8 2016.3890	347.3 2.144 347.9 2.143	MILES & MASON
9220 14179+6914	A 1102 1.4772	243.71 0.367	1926.31 135.4	0.355 23.6	259.5 2008.4611	79.9 0.475 79.3 0.476	MILES & MASON
- 15258+8430	MLR 347 17.8306	20.19 0.131	1979.62 158.3	0.505 23.5	44.5 2008.4611	134.2 0.113 110.8 0.093	MILES & MASON
9689 15332-2429	SEE 238Ba,Bb 5.8891	61.13 0.255	1999.03 39.8	0.711 104.8	231.5 2015.3355	135.5 0.294 137.9 0.300	MILES & MASON

Note for WDS 09156-1036 : Mass(a) = $0.121 \pm 0.012 M_{\odot}$, Mass(b) = $0.091 \pm 0.009 M_{\odot}$

NEW ORBITS (continuation)

ADS α 2000 δ	Name n	P a	T i	e ω	Ω(2000) Last ob.	2017 2018	Author(s)
10595 17305-1446	HU 177 1.6356	220.41 0.293	1987.21 156.3	0.541 252.6	179.5 2015.5409	174.3 0.263 172.8 0.268	MILES & MASON
- 17375-3747	B 915AB 2.1119	170.46 0.269	2141.79 57.7	0.142 70.1	140.1 2011.2893	321.3 0.279 322.3 0.280	MILES & MASON
10971 18003+2154	A 1374AB 2.5801	139.53 0.504	1995.81 136.7	0.806 76.0	249.0 2015.5408	32.7 0.502 31.6 0.513	MILES & MASON
- 18108-3529	B 1352 2.9070	123.84 0.257	2039.29 51.4	0.450 81.9	240.0 2015.5410	216.1 0.230 218.1 0.229	MILES & MASON
11296 18236-2610	HO 566 3.0033	119.87 0.376	1968.65 105.2	0.784 223.7	154.1 2010.5909	143.0 0.534 142.8 0.533	MILES & MASON
- 19167-4553	RST 4036 46.9361	7.67 0.230	1995.05 126.4	0.273 238.8	197.6 2015.5410	30.4 0.195 340.2 0.129	MILES & MASON
14759 21135+0713	BU 270AB 3.3714	106.78 0.407	1931.26 102.7	0.646 331.8	166.7 2008.7723	344.5 0.475 344.1 0.459	MILES & MASON
16904 23393+4543	CHR 149Ba,Bb 14.1732	25.40 0.049	1998.61 135.4	0.301 39.5	267.5 2005.8602	358.2 0.039 342.6 0.038	MILES & MASON

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

(**) DOCOBO, TAMAZIAN & CAMPO

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

NEW DOUBLE STARS

Discovered by: Marco Scardia using the speckle camera PISCO attached to the Epsilon telescope of the Calern Observatory

STAR	Coord. FK5 J2000	Mag.	Epoch	θ ($^{\circ}$)	ρ ($''$)
SCA 176	03 57 53.2 +51 41 56.6	11.4 12.1	2016.948	76.8	8.185
SCA 177	06 25 42.7 +16 25 21.8	12.6 13.2	2017.068	33.2	3.342
SCA 178	06 25 48.7 +16 25 42.1	12.6 12.7	2017.082	20.7	3.066

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
- V37 : T1m, McDonald Observatory, Fort Davis, Texas, USA, LCOGT

STAR	Precise Coord	UCAC4 <u>USNO-B1.0</u> <i>GAIA</i>	Mag.	Epoch	θ ($^{\circ}$)	ρ ($''$)	Obs
DBR 199	230510.34+511354.3	707-110300	16.8 17.2	2016.787	357.3	2.49	1V37
DBR 200	230348.74+511403.2	707-110078	16.5 18.0	2016.787	172.1	2.55	1V37
DBR 201	230519.86+510843.3	706-111288	16.7 17.0	2016.787	136.7	1.73	1V37
DBR 202	230455.23+510840.1	<u>1411-0477395</u>	17.7 17.8	2016.787	357.0	1.77	1V37
DBR 203	230348.49+511104.1	706-111021	15.8 16.9	2016.787	312.2	4.06	1V37
DBR 204 A (1)	232154.53+483824.9	694-123869	11.4	2016.809	241.4	7.86	2FTN
C	232153.83+483821.2		15.0				
DBR 205	235341.94+141320.4	522-145312	14.3 18.7	2016.829	108.2	5.31	1FTN
DBR 206	005054.75-722433.0	088-001526	17.0 18.9	2016.842	175.2	2.54	1FTS
DBR 207	005057.71-722909.3	<u>0175-0024903</u>	18.2 18.4	2016.842	297.1	2.26	1FTS
DBR 208	005100.40-722338.5	089-001758	16.2 19.1	2016.842	87.4	3.18	1FTS
DBR 209 A	005100.62-722919.5	<i>199621763-000014</i>	18.3	2016.842	145.1	3.18	1FTS
B	005101.03-722922.2	<i>199621763-000019</i>	19.4				

(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: A. Debackère using LCOGT global telescope network.
(continuation)

STAR	Precise Coord	UCAC4 <u>USNO-B1.0</u> <i>GAIA</i>	Mag.	Epoch	θ ($^{\circ}$)	ρ ($''$)	Obs
DBR 209 A	005100.62-722919.5	<i>199621763-000014</i>	18.3	2016.842	237.1	1.73	1FTS
	C 005100.32-722920.3	<i>non identified</i>	19.8				
DBR 210	005102.06-723047.6	088-001542	15.9 16.8	2016.842	78.7	3.86	1FTS
DBR 211	005103.78-722717.3	088-001545	17.0 18.4	2016.842	10.3	1.09	1FTS
DBR 212 A	005107.72-722640.0	<u>0175-0025229</u>	16.9	2016.842	38.3	4.347	1FTS
	B 005108.33-722636.6	088-001556	17.3				
DBR 213	005107.97-722620.7	088-001553	16.8 17.5	2016.842	279.3	2.22	1FTS
DBR 214 A	005107.98-722630.7	<i>199619913-000034</i>	16.9	2016.842	280.3	2.27	1FTS
	B 005107.51-722630.3	<i>199619913-000026</i>	17.4				
DBR 215	005108.53-722620.6	NOMAD 0175-0025277	18.5 18.9	2016.842	86.9	2.36	1FTS
DBR 216	005109.59-722918.5	088-001558	16.2 18.0	2016.842	331.5	3.48	1FTS
DBR 217	005111.98-722141.1	<u>0176-0027361</u>	16.7 17.7	2016.842	353.2	2.75	1FTS
DBR 218	005112.72-723050.8	<u>0174-0028166</u>	17.2 18.0	2016.842	285.3	3.50	1FTS
DBR 219	005114.43-722656.7	088-001568	15.7 17.6	2016.842	14.6	2.06	1FTS
DBR 220	005117.41-722532.7	088-001572	16.7 18.1	2016.842	37.0	3.94	1FTS
DBR 221	005122.19-722540.0	088-001586	17.2 17.5	2016.842	31.5	1.84	1FTS
DBR 222	005128.73-722310.0	089-001802	16.5 17.1	2016.842	354.3	1.03	1FTS
DBR 223	005131.70-722145.0	089-001810	16.9 19.1	2016.842	35.3	1.49	1FTS
DBR 224	005131.70-722532.1	088-001610	14.1 15.7	2016.842	128.4	3.09	1FTS
DBR 225	005141.09-722204.6	089-001827	17.8 17.9	2016.842	65.9	1.81	1FTS
DBR 226	005144.16-722146.4	<u>0176-0028452</u>	18.3 18.7	2016.842	109.7	1.70	1FTS
DBR 227 A	005144.32-722932.4	088-001634	17.1	2016.842	279.0	6.00	1FTS
	B 005142.99-722931.3	088-001633	17.2				
DBR 227 A	005144.32-722932.4	088-001634	17.1	2016.842	336.2	16.1	1FTS
	C 005144.19-722931.0	<i>199620355-000003</i>	18.0				
DBR 228	005144.69-722325.8	<u>0176-0028475</u>	17.4 18.5	2016.842	5.8	2.57	1FTS
DBR 229	005153.24-722715.7	088-001656	16.2 17.7	2016.842	108.1	3.34	1FTS
DBR 230	005156.81-722701.6	<u>0175-0027014</u>	17.2 19.0	2016.842	306.8	1.15	1FTS
DBR 231	005157.81-722609.4	<u>0175-0027044</u>	16.5 16.9	2016.842	219.9	3.34	1FTS
DBR 232	005203.74-722730.9	088-001683	16.6 17.5	2016.842	132.2	4.23	1FTS
DBR 233	005207.41-722125.6	089-001870	15.2 16.9	2016.842	300.8	1.92	1FTS
DBR 234	005210.68-722311.1	089-001877	16.0 17.2	2016.842	209.9	1.24	1FTS
DBR 235	005213.62-722338.8	089-001881	15.9 17.2	2016.842	179.6	1.46	1FTS

NEW DOUBLE STARS

Discovered by: A. Debackère using LCOGT global telescope network.
(continuation)

STAR	Precise Coord	UCAC4 <u>USNO-B1.0</u> <i>GAIA</i>	Mag.	Epoch	θ ($^{\circ}$)	ρ ($''$)	Obs
DBR 236	005214.53-722331.0	089-001883	15.5 15.9	2016.842	153.1	1.90	1FTS
DBR 237	005214.56-722332.2	089-001883	15.7 15.8	2016.842	351.5	1.75	1FTS
DBR 238	005220.14-723033.1	088-001730	15.6 16.5	2016.842	358.4	1.34	1FTS
DBR 239	005226.58-722328.9	089-001896	15.6 16.5	2016.842	137.8	1.28	1FTS
DBR 240	005231.97-722525.9	088-001766	16.3 16.9	2016.842	49.5	2.37	1FTS
DBR 241	005233.27-722350.4	089-001909	13.5 17.3	2016.842	309.2	2.49	1FTS
DBR 242	062338.67+263712.3	584-028737	12.6 18.0	2016.927	50.8	4.24	2FTN
DBR 243	062123.39+264513.0	584-028148	15.0 17.6	2016.929	341.4	1.56	3FTN

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