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Orbital elements of double stars: BU 453 AB, A 819 AB, STT 406, BU 367 AB

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INTERNATIONAL ASTRONOMICAL UNION

COMMISSION G1 (BINARY AND MULTIPLE STAR SYSTEMS)

DOUBLE STARS INFORMATION CIRCULAR No. 205 (OCTOBER 2021)

NEW ORBITS

WDS HIP	Name ADS	P(yr) σ_P	T(yr) σ_T	e σ_e	a(") σ_a	i(°) σ_i	Ω (°) σ_Ω	ω (°) σ_ω	2021 2022	Author(s) Last obs.
00324+0657 2548	MCA 1 449	27.50 0.05	1989.00 0.11	0.810 0.025	0.159 0.002	110.8 2.3	105.8 0.8	14.3 2.3	290.9 0.185 289.1 0.210	J & M 2021.5657
01450+5707 8166	BU 453 AB 1371	576.4 166.1	1953.80 0.43	0.657 0.071	1.098 0.086	31.4 4.2	18.6 9.1	332.7 9.0	114.3 0.820 115.0 0.828	S et al. 2020.634
01559+0151 8998	STF 186 1538	167.4 3.2	1893.6 3.2	0.721 0.061	1.043 0.037	74.4 2.6	220.0 0.7	44.0 3.7	75.8 0.618 77.0 0.596	J & M 2021.5658
01570+3101 9087	A 819 AB 1548	138.6 3.7	2010.80 0.41	0.546 0.006	0.421 0.026	48.8 2.3	154.1 1.5	186.8 2.3	62.8 0.181 70.1 0.190	S et al. 2020.675
02572+0153 13773	A 2413 2236	126.9 3.0	1930.5 3.8	0.458 0.051	0.658 0.023	71.2 1.9	184.8 0.9	102.6 6.1	168.6 0.642 169.4 0.647	J & M 2019.0830
04182+2248 3114	STF 520 –	237.0 ...	1972.44 ...	0.859 ...	0.520 ...	21.0 ...	144.3 ...	136.2 ...	83.1 0.689 83.5 0.696	J & M 2019.0920
04227+1503 20440	STT 82 3169	246.9 ...	1892.78 ...	0.277 ...	1.170 ...	137.8 ...	197.0 ...	56.7 ...	324.1 1.209 323.2 1.203	J & M 2018.0630
04400+5328 –	STF 566 3358	203.9 ...	2020.47 ...	0.932 ...	3.079 ...	100.4 ...	148.2 ...	78.9 ...	337.1 0.211 327.8 0.514	J & M 2016.0601
05069-2135 –	DON 93 –	116.6 1.6	2005.8 1.3	0.293 0.008	1.287 0.018	139.3 2.2	93.3 3.8	280.3 2.6	94.9 1.107 91.9 1.128	J & M 2020.8237
05584-0439 –	A 322 4557	547.7 ...	2081.00 ...	0.478 ...	3.151 ...	52.5 ...	185.3 ...	320.1 ...	38.7 2.026 39.6 1.995	J, G & M 2015.5000
06227-2751 –	B 697 –	53.6 2.2	1999.5 6.2	0.114 0.040	0.251 0.043	32. 23.	198. 46.	288. 76.	275.9 0.236 282.3 0.236	J & M 2020.8372

NEW ORBITS (continuation)

WDS HIP	Name ADS	P(yr) σ_P	T(yr) σ_T	e σ_e	a(") σ_a	i(°) σ_i	Ω(°) σ_Ω	ω(°) σ_ω	2021 2022	Author(s) Last obs.	
06290+2013 –	BU 1192 5103	103.9 1.5	1979.70 0.75	0.453 0.029	0.168 0.007	127.0 5.4	139.3 5.2	36.8 7.3	306.4 305.4	0.227 0.227	J & M 2020.9274
07380-3208 37145	B 1554 –	113.8 5.0	1984.2 3.3	0.254 0.031	0.288 0.011	68.7 4.2	150.3 2.2	356.7 4.4	310.6 312.0	0.252 0.261	J & M 2018.0836
08427+0935 –	ST 8 –	123.76 0.50	1925.36 0.62	0.617 0.009	2.664 0.031	106.5 0.8	180.5 0.8	260.5 3.6	31.2 29.6	1.673 1.702	J, G & M 2019.9474
09521+5404 48402	STT 208 7545	106.35 0.68	1987.37 0.05	0.445 0.002	0.337 0.002	22.2 0.4	138.9 1.8	25.6 1.4	314.5 316.1	0.438 0.443	J & M 2019.1252
11272-1539 –	HU 462 8166	48.45 0.74	1959.8 1.3	0.098 0.012	0.465 0.006	164.3 3.9	157. 11.	15.1 6.4	34.7 27.5	0.461 0.468	J & M 2021.1577
11486+1417 57606	BU 603 8311	133.8 5.8	1937.8 9.3	0.90 0.57	1.03 0.31	121. 114.	253. 24.	93. 49.	276.9 276.7	1.065 1.073	J & M 2019.3798
13198+4747 65026	HU 644 8862	49.34 0.20	1968.13 0.42	0.209 0.000	1.546 0.005	94.4 0.1	90.9 0.1	72.9 2.1	281.7 277.9	0.487 0.702	J & M 2019.0577
13235+2914 65343	HO 260 8887	296.6 ...	1883.70 ...	0.666 ...	1.682 ...	69.6 ...	298.7 ...	305.7 ...	89.6 89.9	1.696 1.708	J & M 2019.2704
14330+0656 71142	YSC 6 –	560. 80.	2005.7 2.3	0.984 0.015	6.253 0.400	86.6 1.5	54.8 2.0	289.0 3.0	150.1 158.3	0.174 0.186	D & C 2016.4919
14489+0557 72447	STF1883 9392	245.8 ...	1964.23 ...	0.641 ...	0.839 ...	106.7 ...	98.9 ...	39.2 ...	277.0 276.8	1.069 1.077	J & M 2021.1631
15122-1948 74392	B 2351 9532	23.507 0.030	1971.039 0.083	0.244 0.003	0.129 0.001	154.4 1.1	173.8 2.6	340.1 3.1	127.1 107.8	0.106 0.110	J & M 2021.5675
16079+1425 79034	A 1798 9931	298.0 15.0	2049.91 0.40	0.303 0.016	0.241 0.006	128.7 2.0	140.2 2.0	220.4 2.0	334.4 333.1	0.184 0.184	D & C 2016.4921
17372+2754 –	KUI 83 –	24.100 0.019	1961.171 0.035	0.214 0.002	0.290 0.001	164.9 1.0	328.2 3.8	17.2 3.8	135.6 126.0	0.351 0.350	J & M 2008.5450
18402+3822 91552	HDS 2644 –	23.53 0.27	2024.11 0.20	0.181 0.005	0.100 0.005	142.2 2.0	116.6 2.0	359.9 4.0	176.6 155.8	0.075 0.077	D & C 2016.4978

NEW ORBITS (continuation)

WDS HIP	Name ADS	P(yr) σ_P	T(yr) σ_T	e σ_e	a(") σ_a	i(°) σ_i	Ω(°) σ_Ω	ω(°) σ_ω	2021 2022	Author(s) Last obs.
19487+3519 97477	STT 387 12972	165.0 1.9	1870.9 6.6	0.058 0.002	0.641 0.004	131.8 0.8	154.4 0.7	105. 12.	95.2 0.440 92.0 0.433	J & M 2018.6560
20198+4522 100241	STT 406 13723	112.16 0.76	1915.57 0.47	0.855 0.019	0.300 0.019	141.2 6.4	124.0 6.9	184.4 8.6	80.5 0.173 76.1 0.152	S et al. 2021.551
20306+1349 101181	HDS 2932	31.65 1.30	2006.25 0.05	0.859 0.003	0.121 0.005	63.7 1.5	175.9 1.0	305.6 1.0	322.4 0.150 324.0 0.154	D & C 2016.4898
20444+1945 102357	CAR 2	14.73 0.20	2019.17 0.20	0.599 0.003	0.280 0.002	129.5 0.5	81.8 1.0	247.7 1.0	78.9 0.246 66.0 0.301	D & C 2016.4926
20550+2805 103247	BU 367 AB 14424	104.02 0.16	1934.61 0.33	0.277 0.002	0.410 0.024	68.2 0.4	119.9 0.5	185.8 1.4	218.6 0.144 228.5 0.146	S et al. 2021.573
21125+2821 104701	HO 152 14748	202.0 15.0	2014.66 0.60	0.504 0.025	0.377 0.010	70.3 1.5	131.0 1.5	44.0 5.0	197.7 0.073 212.3 0.070	D & C 2016.4927
21137+6424 –	H 1 48 14783	82.76 0.60	2002.16 0.07	0.733 0.006	0.572 0.003	82.5 0.3	64.7 0.1	28.2 0.5	245.0 0.774 245.2 0.793	J & M 2019.7500
23568+0444 118054	A 2100 17111	89.33 0.93	1990.75 0.052	0.761 0.003	0.270 0.001	159.0 2.0	111.5 3.7	54.9 4.0	251.4 0.428 250.4 0.432	J & M 2019.8563

S et al. = SCARDIA, PRIEUR, PANSECCHI, LING, ARGYLE, ARISTIDI, ZANUTTA,
 ABE, BENDJOYA, RIVET, VERNET & MACCARINI

J & M = JOSTIES & MASON

J, G & M = JOSTIES, GREAVES & MASON

D & C = DOCOBO & CAMPO

NEW DOUBLE STARS

Discovered by André Debackère using LCO global telescope network.

- FTN : Faulkes Telescope North T2m, Haleakala, Hawaii, LCO

STAR	Precise Coord	GAIA-DR2	G Mag.	Plx e-plx	pmRA e-pmRA	pmDE e-pmDE	Epoch	θ ($^{\circ}$)	ρ ($''$)	Obs
DBR 324 A	230452.635+121615.25	2814760800878264704	10.95	8.9085 0.0914	-69.188 0.126	76.578 0.089	2020.547	198.60	3.746	1FTN (1)
B	230452.545+121611.63	2814760796584541952	14.75	8.8898 0.0823	-63.745 0.102	69.128 0.061				
DBR 325 A	232306.547+584327.30	2010473645803386624	13.57	0.3232 0.0196	-3.241 0.032	-2.996 0.026	2020.528	147.86	1.325	1FTN
B	232306.699+584325.66	2010473645803386496	14.78	0.3060 0.0361	-3.501 0.059	-3.239 0.046				

(1) in NGC 7479 field

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 ($''$)	Notes
SCA 200 AB	19 47 50.00 +26 11 55.3	13.8 - 14.2	2020.636	139.3	3.22	near BRT 201
SCA 201 AB,C	19 46 22.68 +24 37 48.1	10.2 - 12.5	2021.543	12.1	3.37	AB is TDT 1727
SCA 202 AB	19 46 20.75 +24 36 47.2	12.4 - 12.8	2021.545	93.0	3.24	near TDT 1727
SCA 203 AB,C	19 46 33.97 +10 22 40.4	10.1 - 13.0	2021.546	37.0	3.35	AB is J 150
SCA 203 AB,D	19 46 33.97 +10 22 40.4	10.1 - 14.0	2021.546	27.1	5.25	AB is J 150
SCA 204 AB,C	17 48 50.77 +29 17 42.2	10.9 - 12.8	2021.551	92.2	1.61	AB is TDS 884
SCA 204 AB,D	17 48 50.77 +29 17 42.2	10.9 - 13.3	2021.551	47.2	0.92	AB is TDS 884

NOTE

The complete collection of all of the Circulars is available on the website:
<https://www.usc.gal/astro/circularing.html>

The Editors

The deadline for contributions to Information Circular No. 206 is:

February 15th 2022

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