

## 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) $\sigma_P$	T(yr) $\sigma_T$	e $\sigma_e$	a(") $\sigma_a$	i(°) $\sigma_i$	$\Omega$ (°) $\sigma_\Omega$	$\omega$ (°) $\sigma_\omega$	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)**

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

**NEW ORBITS (continuation)**

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

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

February 15th 2022

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