

INTERNATIONAL ASTRONOMICAL UNION

COMMISSION G1 (BINARY AND MULTIPLE STAR SYSTEMS)

DOUBLE STARS INFORMATION CIRCULAR No. 214 (OCTOBER 2024)

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	2024 2025	Author(s) Last obs.	
00348–5853 2726	I 439 –	350 ...	2020.58 ...	0.958 ...	0.708 ...	47.6 ...	122.2 ...	141.1 ...	34.0 41.8	0.103 0.125	TOK 2024.467
00426–0652 –	RST4154AB –	98.94 2.23	1938.47 2.15	0.730 fixed	0.3830 0.0069	102.4 0.4	160.2 1.1	267.1 1.0	354.6 353.4	0.255 0.255	TOK 2024.702
00460–3043 3592	HDS 100AB –	29.4 8.4	2024.131 0.077	0.751 0.041	0.1104 0.0249	105.4 2.0	31.4 1.9	260.1 7.5	183.5 36.5	0.014 0.041	TOK 2024.704
01263–0440 6712	TOK 204Aa,Ab –	6.0574 0.0015	2015.4870 0.0034	0.3868 0.0023	0.0727 0.0005	3.8 fixed	197.3 0.4	8.7 0.2	9.4 38.2	0.098 0.099	TOK+RV 2023.897
02035–0455 9603	TOK 873 –	49.9 18.8	2019.537 0.155	0.542 0.120	0.443 0.118	46.0 3.6	74.1 4.6	184.6 2.0	353.4 7.9	0.223 0.257	TOK 2024.702
02114+6221 –	STF 216 1682	410 104	1981.0 4.0	0.929 0.032	0.434 0.081	122.4 11.9	61.2 10.7	309.7 15.3	299.5 299.0	0.264 0.268	A et al. 2024.07
02563–2857 1362	DAW 77 –	165.5 8.4	1979.69 1.16	0.307 0.081	0.366 0.016	83.1 0.5	77.7 0.8	99.0 3.2	265.2 265.6	0.280 0.274	TOK 2023.006
03407+0643 –	A 1934 2683	86.2 3.3	1947.83 2.16	0.692 0.067	0.321 0.021	57.6 4.3	65.6 7.8	42.2 8.1	345.5 352.7	0.155 0.148	TOK 2024.702
03556–2613 18364	HDS 495 –	60.2 3.4	1999.00 2.63	0.160 0.026	0.2137 0.0031	132.6 3.1	46.0 2.7	187.0 19.2	56.6 53.5	0.240 0.243	TOK 2024.633
04216+0658 20356	A 1835 3151	170.5 15.2	1959.3 3.4	0.620 0.043	0.2171 0.0225	52.1 6.4	63.5 5.6	136.2 7.8	19.9 20.7	0.252 0.255	TOK 2024.702
04347–1138 21329	YSC 32 –	118 ...	2012.26 ...	0.471 ...	0.536 ...	10.0 ...	61.3 ...	255.6 ...	43.7 48.2	0.405 0.421	TOK 2024.704
05196–0942 24844	HDS 700AB –	81.7 18.0	2017.02 0.47	0.727 0.043	0.0962 0.0120	79.2 1.5	91.9 2.6	169.0 5.3	64.3 69.7	0.027 0.035	TOK 2024.705
05267–6436 25466	I 1150 –	907 ...	2015.6 ...	0.783 ...	0.708 ...	53.9 ...	149.1 ...	212.0 ...	31.1 37.2	0.109 0.109	TOK 2024.705

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	2024 2025	Author(s) Last obs.	
05352–0223	HDS 743	56.42	2021.422	0.563	0.075	49.0	119.9	349.5	158.9	0.033	TOK
26216	–	...	...	...	...	...	...	...	177.2	0.033	2024.702
05498–7225	TOK 431	11.288	2021.712	0.6151	0.1044	159.0	55.3	80.0	197.2	0.120	TOK
27531	–	0.191	0.084	0.0158	0.0024	5.6	20.4	18.8	182.1	0.140	2024.705
05565–2631	B 94	700	1995.61	0.853	0.529	147.7	14.9	219.5	30.4	0.262	TOK
28114	4540	...	...	...	...	...	...	...	29.5	0.268	2024.705
05589+1248	STT 124	412.0	1918.743	0.824	0.425	84.5	119.5	16.6	299.4	0.644	TOK
28302	4562	...	...	...	...	...	...	...	299.5	0.647	2018.841
06088–5208	HU 1573	136.05	1975.97	0.4005	0.4239	109.5	148.4	100.8	277.1	0.230	TOK
29142	–	2.55	0.86	0.0284	0.0123	0.8	1.0	1.5	274.3	0.225	2024.705
06256+2227	STT 139	644.0	1935.604	0.881	0.720	26.0	52.0	53.7	259.0	0.802	S et al.
–	5042	...	...	...	...	...	...	...	259.2	0.807	2023.242
06454–3148	EHR 9Ba,Bb	6.609	2014.648	0.136	0.1089	156.5	203.0	12.0	33.7	0.122	TOK
32366	–	0.047	0.098	0.011	0.0019	5.5	11.9	13.0	354.6	0.120	2024.705
06499–2806	HDS 947AB	23.56	2005.38	0.349	0.1423	65.5	190.6	257.4	352.6	0.122	TOK
32767	–	0.92	1.23	0.069	0.0074	2.8	2.5	5.9	0.4	0.125	2024.705
06548–3301	GKM Aa,Ab	6.86	2023.965	0.479	0.0475	17.5	74.9	359.6	80.2	0.025	TOK
33228	–	1.62	0.049	0.088	0.0069	12.3	81.0	76.9	186.3	0.042	2024.705
06576–2438	B 122	135.6	1994.91	0.8306	0.944	102.1	72.1	301.7	298.3	0.377	TOK
33478	5629	3.5	0.61	0.0146	0.059	1.0	0.8	2.8	296.5	0.395	2024.705
06584–3407	HDS 970	61.55	2020.820	0.7495	0.1605	172.6	83.7	81.2	257.1	0.088	TOK
33558	–	2.77	0.026	0.0081	0.0046	9.8	69.4	69.6	246.4	0.105	2024.156
07509–4652	RST4866	500	1987.86	0.626	0.257	131.7	163.5	282.2	151.6	0.162	TOK
–	–	...	...	...	...	...	...	...	150.6	0.164	2024.705
09279+3128	A 366 AB	287.2	2004.444	0.607	0.400	45.5	24.4	146.3	249.8	0.203	S et al.
–	7384	49.5	1.4	0.038	0.039	3.2	2.5	7.7	252.5	0.205	2023.109
12428–5557	KOU 15	47.0	2022.808	0.176	0.210	115.3	1.3	145.7	190.6	0.164	TOK
32026	–	...	...	...	...	...	...	...	185.6	0.173	2024.154
13005-3330	HDS 1824	44.69	2016.65	0.849	0.410	114.5	173.5	102.8	289.7	0.229	D et al.
63490	–	0.20	0.08	0.010	0.005	1.0	1.0	0.5	284.2	0.237	2024.1566
13040-1738	BU 798	61.07	1980.95	0.457	0.351	83.5	171.0	213.7	186.3	0.178	D et al.
63754	8764	0.85	0.50	0.005	0.003	0.5	0.5	0.5	189.0	0.151	2024.2386
13123-5955	SEE 170	27.48	2022.20	0.675	0.166	62.3	99.8	201.1	62.2	0.067	D et al.
64425	–	0.25	0.10	0.003	0.002	0.5	0.5	0.5	78.7	0.111	2024.1542
13320-6519	FIN 369	24.68	2023.91	0.308	0.151	69.4	20.1	275.4	311.9	0.039	D et al.
66005	–	0.30	0.50	0.008	0.003	0.5	1.5	2.0	354.5	0.071	2024.0201

NEW ORBITS (continuation)

WDS HIP	Name ADS	P(yr)	T(yr)	e	a(")	i(°)	Ω(°)	ω(°)	2024	Author(s)	
		σ_P	σ_T	σ_e	σ_a	σ_i	σ_Ω	σ_ω	2025	Last obs.	
14038–6022	VOU 31AB	133.3	2027.40	0.8023	0.826	121.4	94.3	41.4	124.7	0.226	TOK
68702	–	6.5	0.35	0.0275	0.043	3.1	1.9	6.3	112.9	0.214	2024.468
14566–6222	B 2026	275	1974.17	0.539	0.239	44.2	79.3	334.1	185.1	0.185	TOK
73118	–	...	...	...	...	...	...	...	186.4	0.187	2024.468
15273+1738	A 2074 AB	55.46	1977.289	0.767	0.244	73.5	100.9	307.5	275.4	0.263	S et al.
–	9645	0.76	7.3	0.085	0.024	12.6	7.6	22.3	276.5	0.249	2024.510
15313–3349	B 2036AB	167.9	1982.67	0.338	0.3936	92.2	1.1	243.7	0.7	0.428	TOK
76001	–	18.9	2.73	0.121	0.0127	0.5	0.3	6.1	0.7	0.430	2024.468
15394–1355	HDS2210	21.26	2026.33	0.614	0.1224	115.0	8.7	44.5	56.0	0.054	TOK
76676	–	1.05	0.45	0.074	0.0060	2.2	3.4	6.9	29.3	0.058	2024.236
15529+1526	MUG 21Ba,Bb	15.13	2012.020	0.394	0.0688	48.1	230.6	78.6	200.2	0.063	TOK
77783	–	1.08	0.199	0.081	0.0033	4.9	11.2	5.6	218.5	0.059	2024.466
16535–2804	B 321	73.6	1965.06	0.29	0.156	137.5	35.9	160.6	349.1	0.129	TOK
–	10240	...	...	...	...	...	...	...	343.7	0.122	2024.704
17166–0027	A 2984	160.1	1893.2	0.567	0.648	36.7	172.1	356.0	30.8	0.635	TOK
84514	10429	14.5	8.7	0.115	0.050	12.4	6.5	9.7	32.4	0.619	2024.466
17185–3848	RST1947	200	2067.4	0.681	0.755	89.8	50.2	50.5	231.4	0.131	TOK
84666	–	...	...	...	...	...	...	...	231.5	0.116	2024.466
17348+0601	HDS2481Aa,Ab	50.86	2005.848	0.5254	0.2132	119.8	56.9	318.9	278.5	0.200	TOK
86024	–	1.86	0.180	0.0225	0.0065	1.3	1.8	3.3	275.3	0.211	2024.704
17362–1752	YSC 158Aa,Ab	15.181	2013.78	0.1725	0.0738	77.8	96.9	161.3	103.3	0.072	TOK
86142	–	0.305	0.41	0.0160	0.0014	1.9	1.1	11.4	110.3	0.052	2024.704
17531–2125	HDS2524	100	2017.533	0.284	0.174	67.1	140.4	181.3	340.4	0.102	TOK
87546	–	...	...	...	...	...	...	...	344.5	0.096	2024.704
18018+0118	BU 1125AB	253.0	2028.49	0.4896	0.772	45.3	153.2	55.3	178.9	0.369	TOK
88290	10990	17.0	1.06	0.0099	0.030	0.9	2.8	2.3	182.8	0.357	2024.466

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	2024 2025	Author(s) Last obs.	
18108–3529	B 1352	102.5	2055.9	0.668	0.2972	62.9	99.0	271.3	229.0	0.246	TOK
89076	–	5.0	5.9	0.068	0.0262	3.9	6.1	2.0	230.7	0.248	2024.466
18166–2033	MCA 51	98.9	2018.90	0.6774	0.1707	85.8	134.7	152.0	322.3	0.044	TOK
89567	–	6.1	0.43	0.0277	0.0039	0.9	0.4	6.1	325.9	0.036	2024.704
18301+0404	CHR 72Aa,Ab	210	2007.2	0.25	0.185	50.0	169.5	67.0	294.7	0.106	TOK
90676	–	...	...	...	...	...	...	...	297.8	0.109	2024.704
18422–2617	RST3190	103.1	1988.58	0.282	0.2662	133.7	138.4	210.6	141.0	0.319	TOK
91721	–	3.3	2.03	0.053	0.0097	5.4	3.9	10.1	139.4	0.322	2024.704
19155–2515	B 430	19.9678	2015.058	0.4921	0.1352	84.2	286.1	8.1	106.1	0.200	TOK+RV
94643	12214	0.0309	0.060	0.0033	0.0008	0.3	0.2	1.3	106.9	0.200	2023.417
19172-6640	GLE 3	163.70	1950.92	0.599	0.558	53.5	87.7	96.8	358.9	0.526	D et al.
94789	–	1.50	0.30	0.009	0.007	0.5	1.5	2.5	0.1	0.528	2024.4659
20002–5522	B 459BC	72.69	2042.17	0.0997	0.2699	12.4	107.1	229.1	235.5	0.269	TOK
98457	–	0.83	2.63	0.0155	0.0057	6.7	43.6	33.6	240.4	0.267	2024.466
20290+0710	A 610	189.0	1981.44	0.290	0.5131	26.9	103.9	243.7	101.8	0.533	TOK
101046	13894	4.5	0.53	0.014	0.0040	2.0	3.8	4.7	103.3	0.537	2024.466
20306+1349	HDS2932	27.03	2011.67	0.577	0.1149	70.5	137.2	34.3	327.7	0.160	TOK
101181	–	0.78	0.41	0.030	0.0033	1.5	1.7	6.5	329.6	0.155	2022.682
20507-3116	B 997	63.00	2015.98	0.198	0.200	39.5	97.2	144.5	300.9	0.168	D et al.
102892	–	1.00	0.30	0.006	0.002	0.5	1.0	1.0	307.0	0.168	2024.4659
20562–3146	B 1001	74.89	1985.24	0.555	0.1949	141.4	2.5	157.1	18.9	0.295	TOK
–	–	1.73	1.15	0.041	0.0037	4.3	10.8	14.3	17.6	0.296	2024.466
21001+0731	KUI 102	59.171	2017.222	0.2658	0.3068	128.9	194.7	317.7	178.6	0.244	TOK
103652	–	0.253	0.094	0.0024	0.0011	0.3	0.5	1.1	172.8	0.242	2024.466
21147-0050	A 883	81.35	2025.36	0.203	0.171	124.2	118.4	256.3	245.4	0.089	D et al.
104878	14775	0.60	0.20	0.002	0.002	0.5	0.5	0.5	235.7	0.083	2024.4662
21273-3218	B 1007	116.35	1972.80	0.225	0.1426	46.1	202.2	336.5	354.1	0.156	D et al.
105940	–	1.50	0.50	0.005	0.0015	0.5	1.0	1.0	355.8	0.158	2023.4176
22061–0521	TOK 373	12.831	2013.637	0.3404	0.1826	96.0	45.6	353.4	213.0	0.079	TOK
109110	–	0.101	0.174	0.0116	0.0024	0.6	0.6	5.9	85.6	0.024	2024.466
22156–4121	CHR 187	9.619	2015.738	0.6947	0.0974	40.9	82.6	352.7	293.4	0.090	TOK
109908	–	0.025	0.032	0.0078	0.0009	1.5	2.5	3.4	359.3	0.033	2024.466

NEW ORBITS (continuation)

WDS	Name	P(yr)	T(yr)	e	a(")	i(°)	Ω(°)	ω(°)	2024	Author(s)	
HIP	ADS	σ_P	σ_T	σ_e	σ_a	σ_i	σ_Ω	σ_ω	2025	Last obs.	
22288–0001	EBE 1Aa,Ab	25.912	2006.535	0.880	0.381	17.0	343.3	52.3	223.4	0.636	TOK
110960	–	0.048	0.141	0.015	0.018	9.7	44.3	44.5	225.8	0.606	2024.466
22378–5004	HDS3214	68.4	2020.371	0.7269	0.1240	142.2	104.8	64.8	295.8	0.068	TOK
111714	–	8.5	0.043	0.0230	0.0101	2.0	3.7	4.5	287.6	0.080	2024.466
22524+0950	RAO 30Da,Db	35.93	2026.0	0.0	0.328	133.2	183.1	0.0	197.1	0.318	TOK
–	–	...	...	...	...	...	...	...	190.0	0.326	2024.466
23464–2302	TOK 375	12.294	2023.015	0.4982	0.1548	151.0	148.1	77.5	348.9	0.104	TOK
117247	–	0.062	0.052	0.0091	0.0028	2.9	6.3	5.5	315.4	0.149	2024.466

TOK = Tokovinin

TOK+RV = Tokovinin, uses radial velocities.

A et al. = Andreas Alzner, Ian Coster, and Robin Leadbeater

S et al. = M. Scardia, J.-L. Prieur, J. Ling, L. Pansecchi, R. Argyle, E. Aristidi, L. Piccotti, L. Maccarini,

L. Abe, P. Bendjoya, J.-P. Rivet, and D. Vernet

D et al. = J. A. Docobo, P. P. Campo, J. Gómez, L. Piccotti, R. A. Méndez, and E. Costa

The deadline for contributions to Information Circular No. 215 is:

February 15th 2025

J. A. Docobo (joseangel.docobo@usc.es) [1,2]
Tel: +34 881 815 016

[1] Observatorio Astronómico R. M. Aller
P. O. Box 197
<http://www.usc.es/astro>
Universidade de Santiago de Compostela
SPAIN

[2] Real Academia de Ciencias de Zaragoza
Facultad de Ciencias
C/ Pedro Cerbuna, 12
50009 Zaragoza
SPAIN

ISSN: 1024-7769