

INTERNATIONAL ASTRONOMICAL UNION

COMMISSION G1 (BINARY AND MULTIPLE STAR SYSTEMS)

DOUBLE STARS INFORMATION CIRCULAR No. 215 (FEBRUARY 2025)

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	2025 2026	Author(s) Last obs.
00149–3209 1190	B 1024 –	420 ...	2011.4 ...	0.338 ...	0.672 ...	113.1 ...	85.1 ...	31.1 ...	55.2 0.296 53.5 0.288	TOK 2025.045
00167+3629 1224	STT 4 221	108.50 1.50	1907.65 0.50	0.545 0.010	0.363 0.007	159.2 5.0	168.1 15.0	153.2 20.0	289.1 0.237 283.2 0.249	D <i>et al.</i> 2023.6007
00417–2446 –	B 10 581	171 ± 32	2023.428 ± 0.171	0.990 fixed	0.2523 ± 0.0306	109.0 ± 3.5	44.8 ± 3.8	69.1 ± 2.3	205.9 0.042 203.3 0.055	TOK 2024.877
00504+5038 –	BU 232 AB 684	205.2 ± 5.7	1914.48 ± 0.26	0.6277 ± 0.0089	0.547 ± 0.021	31.5 ± 2.2	66.4 ± 4.2	10.1 ± 4.1	258.5 0.879 259.0 0.878	S <i>et al.</i> 2025.046
01079–4519 5305	HIP 5305 –	6.6 ...	2024.22 ...	0.29 ...	0.0437 ...	38.7 ...	138.0 ...	53.9 ...	270.1 0.031 318.5 0.048	TOK 2025.045
01117+0835 5593	HDS 158 –	46.5 ± 1.1	2023.572 ± 0.064	0.8555 ± 0.0038	0.1978 ± 0.0018	63.7 ± 1.0	131.1 ± 1.3	175.4 ± 2.9	80.1 0.044 99.4 0.081	TOK 2024.702
01197+1209 6216	CHR 196 –	45.158 ...	2023.665 ...	0.95 ...	0.171 ...	100.4 ...	152.8 ...	64.2 ...	326.8 0.068 324.8 0.091	TOK 2024.702
01234 +5809 –	STF 115 AB 1105	207.6 ± 8.8	1984.678 ± 0.023	0.9183 ± 0.0025	0.783 ± 0.130	99.66 ± 0.14	138.55 ± 0.22	132.20 ± 0.44	156.2 0.541 156.0 0.553	S <i>et al.</i> 2025.046
01556+0146 –	BU 1367 1533	570 ...	2082.83 ...	0.53 ...	1.107 ...	49.9 ...	132.5 ...	55.9 ...	103.5 0.735 104.3 0.733	TOK 2024.877
02012+1634 9434	BU 515 1605	220 ...	2024.505 ...	0.762 ...	0.795 ...	63.2 ...	74.7 ...	346.3 ...	72.7 0.190 80.9 0.194	TOK 2024.877
02198+0640 –	VOU 40AB –	100 ...	2033.751 ...	0.50 ...	0.149 ...	62.9 ...	124.4 ...	150.2 ...	170.3 0.062 180.0 0.053	TOK 2023.896
02398–4254 –	GKM Ba,Bb –	5.72 ± 0.82	2023.566 ± 0.094	0.247 ± 0.085	0.0658 ± 0.0069	50.2 ± 5.1	162.8 ± 5.4	0.1 ± 6.2	292.0 0.051 331.8 0.079	TOK 2025.045

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	2025 2026	Author(s) Last obs.
02418–5300 –	TOK 690Aa,Ab –	2.811 ± 0.060	2018.233 ± 0.125	0.780 fixed	0.0493 ± 0.0135	78.3 ± 6.1	109.2 ± 6.4	111.4 ± 10.0	71.5 0.027 97.0 0.049	TOK 2023.664
02425+1045 12647	CHR 200 –	5.962 ± 0.064	2022.988 ± 0.255	0.280 ± 0.163	0.0377 ± 0.0032	65.2 ± 4.3	56.5 ± 11.2	279.9 ± 14.4	97.0 0.026 171.3 0.022	TOK 2024.877
02489–3404 –	YMG 3 –	5.930 ± 0.091	2024.040 ± 0.043	0.0 fixed	0.0758 ± 0.0016	77.5 ± 2.2	25.5 ± 1.3	0.0 fixed	44.8 0.042 184.2 0.039	TOK 2025.045
02544–2007 13542	HDS 371 –	81.4 ...	2031.755 ...	0.352 ...	0.288 ...	116.2 ...	125.3 ...	200.1 ...	325.8 0.175 321.0 0.182	TOK 2024.874
02568–6343 –	YMG 4 –	11.95 ± 1.14	2018.86 ± 0.32	0.0 fixed	0.0640 ± 0.0026	99.9 ± 3.5	148.1 ± 2.2	0.0 fixed	327.3 0.064 321.2 0.053	TOK 2024.704
03085–0335 14598	BU 528AB 2366	500 ...	2070.885 ...	0.595 ...	0.653 ...	100.4 ...	20.8 ...	186.9 ...	315.8 0.096 310.7 0.091	TOK 2024.874
04063+1952 –	BAG 4 –	15.945 ± 0.105	2010.60 ± 0.34	0.729 ± 0.040	0.0494 ± 0.0047	151.5 ± 15.0	176.2 ± 15.5	291.5 ± 14.2	8.8 0.040 330.0 0.020	TOK 2024.963
04170 +1941 –	HO 328 3102	62.89 ± 0.25	1970.848 ± 0.320	0.9640 ± 0.0032	0.243 ± 0.012	178.6 ± 5.7	82.3 ± 7.6	258.6 ± 3.5	351.6 0.298 350.5 0.279	S <i>et al.</i> 2024.056
04212+0614 –	A 1834 3144	300 ...	1957.23 ...	0.239 ...	0.506 ...	59.0 ...	118.6 ...	60.5 ...	293.0 0.510 293.5 0.514	TOK 2024.963
04258+1800 20679	COU2682 –	45.88 ± 0.36	2007.58 ± 0.70	0.0531 ± 0.0055	0.3111 ± 0.0027	67.3 ± 0.2	326.9 ± 0.3	351.1 ± 5.6	123.5 0.235 128.4 0.259	TOK+RV 2024.963
04279+2427 20834	TOK 877 –	6.854 ± 0.085	2022.691 ± 0.084	0.7299 ± 0.0220	0.1041 ± 0.0053	22.7 ± 11.0	133.8 ± 26.5	134.8 ± 26.9	76.5 0.157 89.5 0.173	TOK 2024.963
04460–0659 22151	BU 186 3430	1000 ...	1999.07 ...	0.839 ...	1.815 ...	54.4 ...	180.0 ...	144.1 ...	53.7 0.438 55.6 0.443	TOK 2024.874

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	2025 2026	Author(s) Last obs.
05000–0333 –	JNN 29 –	18.33 ± 0.43	2004.59 ± 0.51	0.380 ± 0.063	0.1310 ± 0.0079	44.9 ± 5.7	89.4 ± 8.2	80.9 ± 7.0	256.3 0.103 273.3 0.124	TOK 2024.874
05066–7734 23776	TOK 785 –	2.1559 ± 0.0014	2020.1987 ± 0.0025	0.1797 ± 0.0017	0.0540 ± 0.0004	65.7 ± 0.9	281.2 ± 0.5	29.4 ± 0.5	76.4 0.040 169.3 0.026	TOK+RV 2024.069
05435–0753 –	A 495 4306	104.7 ± 4.3	1974.1 ± 3.5	0.681 ± 0.033	0.3901 ± 0.0079	115.8 ± 2.6	46.0 ± 7.0	180.8 ± 18.7	46.2 0.655 45.9 0.656	TOK 2024.877
06510+0551 32872	HDS 950 –	10.302 ± 0.128	2015.911 ± 0.088	0.5424 ± 0.0201	0.0727 ± 0.0010	103.2 ± 1.1	159.1 ± 0.9	168.2 ± 4.3	135.8 0.031 350.2 0.027	TOK 2024.963
07003–2207 33721	FIN 334Aa,Ab –	516.4 ...	1984.515 ...	0.50 ...	0.196 ...	120.5 ...	143.1 ...	96.9 ...	325.6 0.133 324.9 0.135	TOK 2025.042
08132–1354 40239	HU 115 6664	63.318 ± 0.113	1999.265 ± 0.120	0.6725 ± 0.0018	0.8778 ± 0.0026	52.6 ± 0.3	139.4 ± 0.7	171.8 ± 1.4	128.7 1.391 129.7 1.409	TOK 2025.043
08430+2408 42783	TOK 265Aa,Ab –	11.25 ± 0.43	2014.46 ± 0.35	0.368 ± 0.046	0.1428 ± 0.0034	137.7 ± 2.8	26.4 ± 6.0	195.7 ± 9.3	232.5 0.092 177.1 0.084	TOK 2024.963
08507+0752 43422	VDK 3 7044	184.9 ± 11.3	2039.89 ± 0.64	0.419 ± 0.039	1.902 ± 0.072	47.8 ± 1.9	123.2 ± 2.9	161.9 ± 9.4	219.6 0.912 224.8 0.900	TOK 2018.252
08526–3633 43590	FIN 296 –	29.409 ± 0.307	2029.51 ± 0.99	0.523 ± 0.033	0.0617 ± 0.0037	129.1 ± 6.1	106.8 ± 6.4	15.4 ± 15.2	215.3 0.038 194.9 0.032	TOK 2024.877
09159+2431 –	COU 934Aa,Ab 7265	87 ...	2010.5 ...	0.80 ...	0.134 ...	68.2 ...	64.4 ...	180.0 ...	52.8 0.143 53.5 0.151	TOK 2024.963
09180–5453 –	JNN 69Aa,Ab –	7.99 ± 0.53	2020.833 ± 0.134	0.437 ± 0.049	0.0478 ± 0.0031	25.4 ± 11.2	205.0 ± 31.5	87.6 ± 29.5	116.1 0.062 138.7 0.059	TOK 2024.877
10510+1603 53031	A 2372 7944	68.76 ± 2.31	1999.37 ± 2.47	0.916 ± 0.040	0.2514 ± 0.0201	137.0 ± 23.2	81.0 ± 42.5	173.8 ± 61.0	89.3 0.457 88.9 0.462	TOK 2025.043

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	2025 2026	Author(s) Last obs.
11230+0408 55574	A 2776AB 8145	72.27 ± 1.78	1997.70 ± 0.99	0.9514 ± 0.0206	0.207 ± 0.046	63.6 ± 6.9	186.2 ± 6.2	81.9 ± 3.3	71.1 0.186 71.9 0.187	TOK 2025.043
11395–6524 56862	B 1705AB –	90.09 ± 2.11	2003.214 ± 0.163	0.5675 ± 0.0096	0.2579 ± 0.0031	48.7 ± 1.1	256.8 ± 1.5	97.3 ± 1.3	126.9 0.243 129.3 0.245	TOK 2023.179
11436–1401 57181	YSC 210 –	10.906 ± 0.076	2014.531 ± 0.083	0.5874 ± 0.0149	0.1146 ± 0.0016	134.6 ± 2.3	28.0 ± 1.7	352.1 ± 2.8	87.4 0.044 333.1 0.049	TOK 2025.043
13539–1440 67580	RST3852 –	87.65 ± 1.93	1983.79 ± 0.78	0.2161 ± 0.0109	0.2097 ± 0.0026	126.3 ± 1.3	156.7 ± 1.1	30.8 ± 5.4	322.1 0.241 320.3 0.238	TOK 2023.324
14117–4105 69354	HDS1992 –	200 ...	2024.906 ...	0.75 ...	0.175 ...	114.2 ...	158.0 ...	23.6 ...	147.0 0.040 136.4 0.035	TOK 2023.106
14310–0548 70973	RST4529 –	22.8647 ± 0.0260	2016.4618 ± 0.0121	0.5104 ± 0.0025	0.2425 ± 0.0010	50.6 ± 0.3	193.6 ± 0.4	120.7 ± 0.4	123.5 0.230 132.5 0.246	TOK 2024.157
15273+1738 75653	A 2074AB 9645	56.72 0.50	1981.40 0.30	0.791 0.010	0.200 0.002	63.0 1.0	101.0 2.0	325.4 3.0	275.0 0.278 275.9 0.268	D <i>et al.</i> 2023.6028
16216+3631	COU 982	89.11 0.70	2000.06 0.25	0.481 0.004	0.372 0.003	60.4 1.0	76.0 1.0	40.4 2.0	258.6 0.470 259.7 0.476	D <i>et al.</i> 2023.6055
17326 +3445 –	HU 1181 AB 10624	23.47 ± 0.13	2015.964 ± 0.470	0.203 ± 0.038	0.164 ± 0.039	73.0 ± 1.0	158.9 ± 1.6	31.2 ± 5.9	339.7 0.191 342.9 0.190	S <i>et al.</i> 2024.508
17420 +1557 –	BU 1251 AB 10723	146.90 ± 2.30	1948.19 ± 2.40	0.495 ± 0.027	1.110 ± 0.044	151.2 ± 9.4	7.1 ± 14.0	90.9 ± 10.9	92.4 1.453 91.3 1.452	S <i>et al.</i> 2024.595
18437 +3141 –	A 253 11623	101.3 ± 1.8	1943.41 ± 2.00	0.753 ± 0.052	0.515 ± 0.050	65.3 ± 3.5	117.4 ± 5.6	194.6 ± 13.0	139.2 0.507 140.3 0.484	S <i>et al.</i> 2023.585

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	2025 2026	Author(s) Last obs.
19021 +5216 –	HU 757 BC 11979	272.1 ± 129.0	1974.3 ± 1.5	0.559 ± 0.150	0.272 ± 0.080	133.9 ± 11.0	109.6 ± 9.9	177.2 ± 8.2	151.1 0.243 150.1 0.247	S <i>et al.</i> 2024.590
19111+3847 94252	SE 2BC 12145	62.417 0.150	2019.127 0.050	0.475 0.003	0.390 0.002	113.0 0.5	92.8 0.5	187.9 0.5	177.6 0.113 157.0 0.132	D <i>et al.</i> 2023.6057
19420 +4015 –	KUI 94 –	80.82 ± 1.26	1980.97 ± 0.15	0.4087 ± 0.0090	0.339 ± 0.021	107.0 ± 0.4	158.4 ± 0.3	192.3 ± 0.8	152.3 0.449 151.7 0.442	S <i>et al.</i> 2024.702
19550+4152 98001	HO 581 13125	25.610 0.200	1988.141 0.030	0.485 0.003	0.265 0.004	32.6 1.0	48.9 5.0	230.9 5.0	86.2 0.363 91.8 0.360	D <i>et al.</i> 2023.6061
20057–3743 98979	HDS2865 –	56.53 ± 1.74	2017.339 ± 0.134	0.3722 ± 0.0141	0.1895 ± 0.0023	133.2 ± 1.0	174.9 ± 1.2	285.9 ± 2.6	163.5 0.160 158.0 0.164	TOK 2024.876
20102+4357 99376	STT 400 13461	86.04 1.50	1970.143 1.75	0.486 0.005	0.459 0.005	115.4 1.0	322.7 1.5	159.4 2.5	322.8 0.644 322.0 0.637	D <i>et al.</i> 2023.6061
20347–6319 101543	HU 1615 –	201.7 ± 11.5	1998.293 ± 0.316	0.7759 ± 0.0113	0.2950 ± 0.0112	47.2 ± 1.4	239.8 ± 3.0	284.6 ± 2.4	297.6 0.224 298.9 0.227	TOK 2024.876
21410+2920 107060	STT 448 15215	251.6 25.40	2013.61 0.10	0.805 0.010	0.464 0.025	159.3 0.5	22.6 5.0	325.0 5.0	304.9 0.226 301.7 0.239	D <i>et al.</i> 2023.6002
21510+2911 107849	A 889 15378	20.470 0.250	1993.927 0.300	0.452 0.010	0.153 0.002	28.2 2.0	39.8 3.0	176.6 4.0	39.2 0.222 45.9 0.219	D <i>et al.</i> 2023.6003
21186+1134 105200	BU 163AB 14839	78.92 0.50	1986.98 0.10	0.861 0.010	0.530 0.005	101.0 2.0	74.6 2.0	350.5 2.0	256.6 0.970 256.5 0.972	D <i>et al.</i> 2023.6058
22357+5413	MLR 3	97.78 1.25	1990.03 0.20	0.940 0.010	0.242 0.007	112.1 0.5	159.6 2.5	148.5 6.0	175.1 0.372 174.9 0.376	D <i>et al.</i> 2023.5952
22586+0921 113445	STT 536AB 16417	25.940 0.100	1977.967 0.200	0.471 0.010	0.346 0.004	90.0 0.5	166.6 0.5	260.9 1.0	346.6 0.271 346.6 0.281	D <i>et al.</i> 2023.8960

NEW ORBITS (continuation)

WDS	Name	P(yr)	T(yr)	e	a(")	i(°)	Ω(°)	ω(°)	2025	Author(s)	
HIP	ADS	σ_P	σ_T	σ_e	σ_a	σ_i	σ_Ω	σ_ω	2026	Last obs.	
23114+3813	HO 197AB	171.90	2012.94	0.355	0.386	109.2	123.2	244.1	156.3	0.149	D <i>et al.</i>
114504	16576	3.50	0.40	0.010	0.010	0.5	0.5	2.0	152.4	0.164	2023.6004
23375 +4426	STT 500 AB	392.5	2230.228	0.920	1.285	79.3	116.1	89.4	18.2	0.462	S <i>et al.</i>
-	16877	±1.6	±0.040	±0.012	±0.030	±0.4	±2.3	±0.3	18.7	0.461	2025.066

TOK = TOKOVININ

D *et al.* = DOCOBO, CAMPO, GÓMEZ, COSTAS & PICCOTTI

S *et al.* = SCARDIA, PRIEUR, LING, PANSECCHI, ARGYLE, ARISTIDI, PICCOTTI, MACCARINI, ABE, BENDJOYA, RIVET and VERNET

TOK+RV = TOKOVININ, uses radial velocities

NEW DOUBLE STARS

Discovered by A. Debackère using LCO Global Telescope Network.

-F65: T2m Haleakala Observatory, FTN, Faulkes Telescope North, Hawaii, LCO
 -E10 : T2m Siding Spring Observatory, FTS, Faulkes Telescope South, Australia, LCO
 -K91: T1m South African Astronomical Observatory, South Africa, LCO

STAR GAIA-DR3 Id.	Precise Coord (2000)		G mag	Plx e_{Plx}	pmRA e_{pmRA}	pmDE e_{pmDE}	Epoch	θ ($^{\circ}$)	ρ ($''$)	# Obs
	RA	DE								
DBR 345 A 4106897103408213120	184910.281	-110150.02	12.9	0.1444	-0.786	-2.406	2024.672	84.69	4.878	1 F65
B 4106897103388817408	184910.615	-110149.57	14.0	0.1466	-1.439	-2.059		0.27	0.009	
				0.0257	0.026	0.022				
				0.0229	0.024	0.020				
DBR 346 A 4309207693869890048	191017.683	+094122.13	13.3	0.9720	-0.052	-3.663	2024.645	226.42	4.012	1 E10
B 4309207693869889792	191017.486	+094119.321	13.9	0.9989	0.215	-3.676		0.25	0.021	
				0.0144	0.014	0.013				
				0.0173	0.017	0.016				
DBR 347 A 4264701662236391808	191449.521	+010409.97	13.8	1.1282	0.651	0.483	2024.648	74.49	3.154	1 F65
B 4264701662212444160	191449.729	+010410.74	15.0	1.0986	0.449	0.577		0.18	0.030	
				0.0200	0.023	0.017				
				0.0317	0.034	0.025				
DBR 348 A 2061841970086527488	200812.304	+382721.44	14.0	0.3749	-2.238	-2.737	2024.656	242.37	2.508	1 F65
B 2061841970086527360	200812.118	+382720.22	14.9	0.3814	-2.416	-2.968		0.38	0.008	
				0.0138	0.014	0.018				
				0.0220	0.024	0.029				
DBR 349 A 1831552352001966592	203501.218	+250656.70	15.3	0.8316	-0.528	-11.098	2024.691	288.04	2.473	1 F65
B 1831552352001966720	203501.043	+250657.47	15.5	0.8383	-0.456	-10.912		0.33	0.010	
				0.0292	0.028	0.036				
				0.0307	0.030	0.028				

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2. AVDEEVA, ALEKSANDRA S. *et al.*: *Quality flags for GSP-Phot Gaia DR3 astrophysical parameters with machine learning: effective temperatures case study*. *MNRAS*, **527**, (3), 7382A (2024).
3. DAVIDSON, JAMES W. *et al.*: *Observations with the Differential Speckle Survey Instrument. XI. First Year of Observations from Apache Point Observatory*. *AJ*, **167**, (3), 117D (2024).
4. DYACHENKO, V. V. *et al.*: *Study of the μ Cet Binary with Speckle Interferometric, Photometric, and Spectroscopic Techniques*. *AstBu*, **79**, (3), 445D (2024).
5. EL-BADRY, KAREEM: *Gaia's binary star renaissance*. *NewAR*, **98**, 01694E (2024).
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7. EVANS, NANCY REMAGE *et al.*: *The Orbit and Dynamical Mass of Polaris: Observations with the CHARA Array*. *ApJ*, **971**, (2), 190E (2024).
8. FAGAN, EVAN *et al.*: *Speckle Imaging and Characterization of TESS-Identified Quadruple Eclipsing Binaries*. *AAS*, **243**, 305.10F (2024).
9. GRAMAIZE, LÉOPOLD *et al.*: *Spectroscopic Analysis of CWISE J151044.74-524923.5, A Wide L Dwarf Companion to the L 262-74 System*. *RNAAS*, **8**, (11), 294G (2024).
10. HEINTZ, TYLER M.: *A Test of Spectroscopic Age Estimates of White Dwarfs Using Wide WD+WD Binaries*. *ApJ*, **969**, (1), 68H (2024).
11. HOLDSWORTH, AMANDA *et al.*: *Visual Orbits of Wolf-Rayet Stars. II. The Orbit of the Nitrogen-rich Wolf-Rayet Binary WR 138 Measured with the CHARA Array*. *ApJ*, **977**, (2), 185H (2024).
12. HUSSEIN, ABDALLAH M. *et al.*: *Complete analysis of the subgiant stellar system: HIP 102029*. *AdSpR*, **73**, (1), 1103H (2024).
13. KOVALEV, MIKHAIL YU.; CHEN, XUEFEI & HAN, ZHANWEN: *J115307.93+353528.2–Spectroscopic Twin Binary, Composed of Solar Like Stars. Orbital Solution from Poorly Resolved Double-line Structure*. *RNAAS*, **8**, (7), 175K (2024).
14. LEBLANC, MADISON *et al.*: *A Comprehensive View of Companions to M Dwarfs: Exploring Gaia DR3 for Unseen Companions*. *AAS*, **243**, 202.10 (2024).
15. LEONARD, JONATHAN *et al.*: *Observing Binary Stars with the Differential Speckle Survey Instrument at Apache Point: A Status Report*. *AAS*, **244**, 102.05L (2024).
16. LINCK, EVAN; MATHIEU, ROBERT D. & LATHAM, DAVID W.: *WIYN Open Cluster Study. XC. Radial-velocity Measurements and Spectroscopic Binary Orbits in the Open Cluster NGC 2506*. *AJ*, **168**, (5), 205L (2024).
17. LIU, HAO-BIN *et al.*: *A Sample of Compact Object Candidates in Single-lined Spectroscopic Binaries from LAMOST Medium-resolution Survey*. *ApJ*, **969**, (2), 114L (2024).

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The deadline for contributions to Information Circular No. 216 is:

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