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The bibliographical entries for *Individual Stars* and *Collections of Data*, as well as a few *General* entries, are categorized according to the following coding scheme. Data from archives or databases, or previously published, are identified with an asterisk. The observation codes in the first four groups may be followed by one of the following wavelength codes.

g. γ-ray. i. infrared. m. microwave. o. optical
r. radio u. ultraviolet x. x-ray

1. Photometric data

a. CCD b. Photoelectric c. Photographic d. Visual

2. Spectroscopic data

a. Radial velocities b. Spectral classification c. Line identification d. Spectrophotometry

3. Polarimetry

a. Broad-band b. Spectropolarimetry

4. Astrometry

a. Positions and proper motions b. Relative positions only c. Interferometry

5. Derived results

a. Times of minima
b. New or improved ephemeris, period variations
c. Parameters derivable from light curves
d. Elements derivable from velocity curves
e. Absolute dimensions, masses
f. Apsidal motion and structure constants
g. Physical properties of stellar atmospheres
h. Chemical abundances
i. Accretion disks and accretion phenomena
j. Mass loss and mass exchange
k. Rotational velocities

6. Catalogues, discoveries, charts

a. Catalogues
b. Discoveries of new binaries and novae
c. Identification of optical counterparts of γ-ray, x-ray, IR, or radio sources
d. Finding charts

7. Observational techniques

a. New instrument development
b. Observing techniques
c. Reduction procedures
d. Data-analysis techniques

8. Theoretical investigations

a. Structure of binary systems
b. Circumstellar and circumbinary matter
c. Evolutionary models
d. Loss or exchange of mass and/or angular momentum

9. Statistical investigations

10. Miscellaneous

a. Abstract b. Addenda or errata

Abbreviations

AD	accretion disk	IP	intermediate polar	RV	radial velocity
BH	black hole	LC	light curve	SB	spectroscopic binary
CB	close binary	LMXB	low-mass x-ray binary	WD	white dwarf
CV	cataclysmic variable	NS	neutron star	WR	Wolf-Rayet star
EB	eclipsing binary	PSR	pulsar	GW	gravitational wave
HMXB	high-mass x-ray binary	QPO	quasi-periodic oscillation		

Individual Stars

V455 And	*Tampo, Y. et al.* (14 authors) 2022, PASJ 74, 460. (2ac, 5ij) Exotic spectral features during the dwarf nova 2007 super outburst.
V889 Aql	*Baroch, D. et al.* (9 authors) 2022, A&A 665, A13. (1ao, 2ao, 5acef) EB absolute dimensions and apsidal motion.
V1343 Aql (SS 433)	*Cherepashchuk, A.M. et al.* (8 authors) 2022, ARep 66, 451. (1ar, 2a, 5b) Optical monitoring in 2017-2021. *Hayakawa, R. et al.* (13 authors) 2022, PASJ 74, 510. (1grx, 2dx, 5j) X-ray hot spots in the eastern ear of the SN remnant. *Inoue, H.* 2022, PASJ 74, 991. (8abd) Mass flow behavior. *Yamamoto, H. et al.* (6 authors) 2022, PASJ 74, 493. (1r, 5j) Evidence for an interaction of a molecular cloud with the jet.
V1487 Aql (GRS 1915+105)	*Arur, K., Macarone, T.J.* 2022, MNRAS 514, 1720. LMXB radio and X-ray bicoherence. *Garcia, F. et al.* (7 authors) 2022, MNRAS 513, 4196. (1x, 5cgi, 8a) Evolving properties of the corona. *Liu, H. et al.* (10 authors) 2022, ApJ 933, 122. (1x, 2x) The disk wind. *Majumder, S. et al.* (6 authors) 2022, MNRAS 512, 2508. (1x, 5egi) Wideband view of high-frequency QPOs. *Nathan, E. et al.* (9 authors) 2022, MNRAS 511, 255. (1x, 2d, 5bdegi) Phase-resolved spectroscopy of a QPO. *Rawat, D. et al.* (4 authors) 2022, MNRAS 511, 1841. (1x, 5egi, 8a) Time-resolved spectroscopy in the heartbeat state. *Zhang, Y. et al.* (8 authors) 2022, MNRAS 514, 2891. (2dx, 5ij) High-frequency variability evolution.
V1835 Aql	*Caddy, R.V. et al.* (10 authors) 2022, PASP 134, 094201. (1a, 5c) Symbiotic nova.
V801 Ara (4U 1636−536)	*Güver, T. et al.* (14 authors) 2022, ApJ 935, 154. (1x, 2x) Burst-disk interaction. *Roy, P., Beri, A., Mondal, A.S.* 2022, JApA 43, 45. (1x, 2dx, 5g) *NuSTAR* and *AstroSat* observations of thermonuclear X-ray bursts with short-recurrence times. *Zhao, G. et al.* (7 authors) 2022, A&A 660, A31. (2dx, 5i) Poynting-Robertson drag and disk reflection during type I X-ray bursts.
V821 Ara (GX 339-4)	*Ferreira, J. et al.* (10 authors) 2022, A&A 660, A66. (8abd) Are low-frequency QPOs in accretion flows the disk response to jet instability? *Liu, H. et al.* (7 authors) 2022, MNRAS 513, 4308. (1x, 5cgi) Rapidly alternating flux states during the 2021 outburst.
ζ Aur	*Harper, G.M. et al.* (6 authors) 2022, AJ 164, 16. (2d, 5dg) HST STIS observations of the irradiated atmosphere.
RW Aur	*Safonov, B.S., Dodin, A.V.* 2022, AstL 48, 293 (1a, 3, 5i). Dusty wind spatial structure.
BZ Cam	*Balman, S., Schlegel, E.M., Godon, P.* 2022, ApJ 932, 33. (2cdx) P-Cygni profile showing outflow of 4500-8700 km/s in the CV.
LS Cam	*Rawat, N. et al.* (4 authors) 2022, MNRAS 512, 6054. (1o, 5bcgi) Detailed time-resolved timing analysis.
DW Cnc	*Ramírez, S.H. et al.* (4 authors) 2022, RMxAA 58, 47. (1ao, 2ao, 5cdeg) Doppler tomography of the CV after recovering from the low state.

ES CMi	*Alenazi, M.S., Elkhateeb, M.M.* 2022, Ap 65, 182. (1a, 5ce) Photometric study and evolutionary state of the newly discovered W UMA system.
ET CMi	*Alenazi, M.S., Elkhateeb, M.M.* 2022, Ap 65, 182. (1a, 5ce) Photometric study and evolutionary state of the newly discovered W UMA system.
γ Cas	*Rauw, G. et al.* (6 authors) 2022, A&A 664, A184. (1ax, 2bo, 5i) X-ray emission during the 2020-2021 disc eruption.
UU Cas	*Hadrava, P. et al.* (12 authors) 2022, A&A 663, A8. (2bo, 5i) Spectroscopy of the massive interacting binary.
ZZ Cas	*Li, F.-X. et al.* (5 authors) 2022, PASJ 74, 533. (1ao, 2ao, 5abcd) Is there a low-mass triple system orbiting the massive semi-detached binary?
AB Cas	*Miszuda, A. et al.* (4 authors) 2022, MNRAS 514, 622. (1ao*, 5abc, 8c) EB with a δ Scuti component.
V375 Cas	*Li, F.-X. et al.* (6 authors) 2022, MNRAS 514, 1206. (1ao, 2bo, 5abce) Semidetached mass-transfer binary with a massive third companion.
V592 Cas	*Balman, S., Schlegel, E.M., Godon, P.* 2022, ApJ 932, 33. (2cdx) CV QPOs.
V615 Cas (LS I +61 303)	*Mestre, E. et al.* (7 authors) 2022, A&A 662, A27. (1ao, 2dg*) HMXB optical microflares and multiwavelength counterparts.
V1103 Cas	*Volkova, I.M., Kravtsova, A.S.* 2022, ARep 66, 466. (1a, 5abce) Fast apsidal rotation and physical parameters.
V752 Cen	*Innis, J., Coates, D.* 2022, OEJV 224, 1. (1ac, 5ab) Extending the O-C record of period changes.
V822 Cen (Cen X-4)	*Baglio, M.C. et al.* (15 authors) 2022, ApJ 930, 20. (1aoux, 5i) A 13.5-year study of the NS XB focusing on the AD.
EK Cep	*Latković, O. et al.* (5 authors) 2022, MNRAS 513, 5813. (1ao, 2ao, 5abcdef) The EB eccentric orbit and apsidal motion.
V809 Cep	*Babul, A.-N. et al.* (9 authors) 2022, MNRAS 515, 3028. (4cr, 5ij) Shocks and dust formation in the nova.
V957 Cep	*Kozyreva, V.S. et al.* (5 authors) 2022, PZ 42, 17 (5abf). EB photometric elements, apsidal motion, brightness variations and light-time effect.
V968 Cep	*Alenazi, M.S., Elkhateeb, M.M.* 2022, Ap 65, 182. (1a, 5ce) Photometric study and evolutionary state of the newly discovered W UMA system.
DY Cet	*Yildirim, M.F.* 2022, RAA 22, 055013. (1ao, 2ao, 5abcdej) Photometric investigation of the contact binary based on TESS data.
DI Cha	*Juhász, T. et al.* (9 authors) 2022, ApJ 932, 79. (4ci) Disk gap at 1 AU.
TV Col	*Scaringi, S. et al.* (19 authors) 2022, Nature 604, 447. (1ao*, 2dio, 5ij) Localized thermonuclear bursts from the accreting magnetic WD component.
TV Crt (HD 98800)	*Smallwood, J.L., Lubow, S.H., Martin, R.G.* 2022, MNRAS 514, 1249. (8ab) Accretion from a polar circumbinary disc onto the binary.
β Cyg	*Jack, D. et al.* (4 authors) 2022, A&A 661, A49. (2ao, 5d) Discovery of Albireo Ad, making it a hierarchical multiple system.
SS Cyg	*Nishino, Y. et al.* (11 authors) 2022, PASJ 74, L17. (1ox, 2dx, 5i) Highly correlated optical and X-ray variations with Tomo-e Gozen and NICER.
V404 Cyg	*Muñoz-Darias, T., Ponti, G.* 2022, A&A 664, A104. (2acox, 5i) Spectroscopy supports the multi-phase nature of AD winds in the HMXB.
V498 Cyg	*Southworth, J.* 2022, Obs 142, 54. (1ao, 5ace) Rediscussion of EBs. Paper 8: The doubly-eclipsing quadruple star system V498 Cygni.

V505 Cyg	*Chang, L.-F., Zhu, L.-Y.* 2022, PASP 134, 054202. (1a, 5ab) Mass-transferring marginal CB.
V1357 Cyg (Cyg X-1)	*Bhargava, Y. et al.* (7 authors) 2022, MNRAS 512, 6067. (1x, 5cgi) Probing the shot behaviour.
	Feng, M.Z. et al. (17 authors) 2022, ApJ 934, 47. (1x, 2x) Accretion modes evolution.
	Krawczynski, H., Beheshtipour, B. 2022, ApJ 934, 4. (8c) BH spin and AD corona properties.
	Lai, E.V. et al. (9 authors) 2022, MNRAS 512, 2671. (1x, 5cgi) The stellar wind in the hard state.
	Zdziarski, A.A., Egron, E. 2022, ApJL 935, L4. (1g*i*o*x*) Jet composition and power.
V1363 Cyg	*Šimon, V.* 2022, PASJ 74, 569. (1o, 5cij) Post-nova long-timescale activity.
V1521 Cyg (Cyg X-3)	*Spencer, R.E. et al.* (4 authors) 2022, MNRAS 512, 2618. (1x, 5cgi) Major and minor flares revisited.
V2080 Cyg	*Dimitrov, W. et al.* (10 authors) 2022, AcA 72, 55. (1a, 2a, 5abcd, 6d) Photometric and spectroscopic observations of the EB.
W Del	*Khaliullina, A.I.* 2022, ARep 66, 419. (5b) EB orbital period variations.
TT Del	*Khaliullina, A.I.* 2022, ARep 66, 535. (5b) Light-time effect in the EB orbital period variations.
α Dra	*Hey, D.R. et al.* (12 authors) 2022, MNRAS 511, 2648. (1ao, 2a, 5abcdegh) Photometric and spectroscopic analysis.
RR Dra	*Senavci, H.V. et al.* (11 authors) 2022, AcA 72, 31. (1a, 2a, 5abcd) Algol-type EB with possible tertiary companion.
TZ For	*Claret, A.* 2022, A&A 664, A101. (8ac) Differential nuclear and tidal evolution scenarios.
σ Gem	*Cao, D. et al.* (4 authors) 2022, MNRAS 514, 4190. (2co, 5g) Magnetic activity of the RS CVn binary.
	Kawai, H. et al. (7 authors) 2022, PASJ 74, 477. (1ox, 2dox, 5cgj) X-ray/Hα scaling relationships in stellar flares.
Y Gem	*Yu, Z.-L. et al.* (5 authors) 2022, ApJ 932, 132. (2x) A WD symbiotic star?
V396 Gem	*Yücel, G., Bakiş, V.* 2022, MNRAS 514, 34. (1ao*, 2ao, 5cdeg) Stellar twin EB.
HS Her	*Latković, O. et al.* (5 authors) 2022, MNRAS 513, 5813. (1ao, 2ao, 5abcdef) The EB eccentric orbit and apsidal motion.
HZ Her (Her X-1)	*Christodoulou, D.M. et al.* (4 authors) 2022, MNRAS 513, 1. (5gi, 8a) Variations of magnetic multipoles.
	Kolesnikov, D. et al. (6 authors) 2022, MNRAS 513, 3359. (1x, 5bcg) Evidence for NS triaxial free precession.
	Kosec, P. et al. (14 authors) 2022, ApJ 936, 185. (1x, 2x) Outer disk, magnetosphere boundary, and accretion curtain emission lines.
V934 Her (4U 1700+24)	*Bozzo, E. et al.* (4 authors) 2022, MNRAS 513, 42. (1gx, 5cegi) Symbiotic XB soft γ-ray spectroscopy.
EU Hya	*Khaliullina, A.I.* 2022, ARep 66, 535. (5b) Light-time effect in the EB orbital period variations.
V627 Hya	*Xu, H.-S. et al.* (5 authors) 2022, PASJ 74, 326. (1ao, 5abce) Red dwarf contact binary.

CD Ind	*Dutta, A., Rana, V.* 2022, MNRAS 511, 4981. (1x, 5cegi) A broad-band X-ray study.
V402 Lac	*Baroch, D. et al.* (9 authors) 2022, A&A 665, A13. (1ao, 2ao, 5acef) EB absolute dimensions and apsidal motion.
IT Lib	*Wysocki, P. et al.* (5 authors) 2022, AJ 163, 177. (2a, 5abcdej) Mass transfer as explanation for LITE discrepancy.
RR Lyn	*Lloyd, C.* 2022, Obs 142, 156. (1ao, 5be) The third body revisited.
V674 Lyr	*Karimov, R.G., Hafizov, B.M., Burhonov, O.A.* 2022, OEJV 225, 1. (5ab) EB times of minima.
AH Mic	*Poro, A. et al.* (10 authors) 2022, RAA 22, 055020. (1ao, 5abce) The first photometric study of the contact binary system.
AU Mon	*Armeni, A., Shore, S.N.* 2022, A&A 664, A103. (2acou, 5i) Revisiting the high-mass transfer CB.
V723 Mon	*Li, Y., Qiao, E., Shen, R.-F.* 2022, MNRAS 514, 935. (1x*, 5i, 8bd) Is the unseen companion a mass-gap BH or a NS pair?
V750 Mon (MWC 166 A)	*Zarrilli, S.A. et al.* (16 authors) 2022, A&A 665, A146. (4ci, 5abeg) The orbit and circumstellar environment of the high-mass binary.
V902 Mon	*Rawat, N. et al.* (4 authors) 2022, MNRAS 512, 6054. (1o, 5bcgi) Detailed time-resolved timing analysis.
GT Mus	*Kawai, H. et al.* (7 authors) 2022, PASJ 74, 477. (1ox, 2dox, 5cgj) X-ray/Hα scaling relationships in stellar flares.
QX Nor (4U 1608−52)	*Chen, Y.-P. et al.* (10 authors) 2022, ApJ 936, 46. Evidence of interplay between a thermonuclear burst and the accretion environment.
RS Oph	*Aharonian, F. et al.* (the H.E.S.S. collaboration; 174 authors) 2022, Sci 376, 77. (2dg, 5ij) Time-resolved hadronic particle acceleration. *Bednarek, W.* 2022, MNRAS 515, 1644. (1g*, 8abd) For how long are particles accelerated in the recurrent nova shell? *Cheung, C.C. et al.* (18 authors) 2022, ApJ 935, 44. (1go*x*) Fermi-LAT γ-ray detection of the recurrent nova during its 2021 outburst. *Page, K.L. et al.* (15 authors) 2022, MNRAS 514, 1557. (1aiox, 2dx, 5i) The 2021 outburst of the recurrent nova.
V1055 Ori (4U 0614+09)	*Chen, Y.-P. et al.* (89 authors) 2022, ApJ 935, 10. (1g, 2g) GECAM detection of a bright type I X-ray burst.
V1388 Ori	*Southworth, J., Bowman, D.M.* 2022, Obs 142, 161. (1ao, 5e) Rediscussion of EBs. Paper 10: The pulsating B-type system V1388 Orionis.
V1833 Ori	*Tanriver, M., Bulut, A.* 2022, RAA 22, 085022. (1ao, 5abce) The first photometric study of the W UMa binary system.
IM Peg	*Cao, D. et al.* (4 authors) 2022, MNRAS 514, 4190. (2co, 5g) Magnetic activity on the RS CVn binary.
V521 Peg	*Szegedi, H. et al.* (4 authors) 2022, MNRAS 513, 4682. (1o, 2ab, 5bcdegi) Photometric and spectroscopic study.
V392 Per	*Murphy-Glaysher, F.J. et al.* (60 authors) 2022, MNRAS 514, 6183. (1aiox, 2doux, 5bcij) A γ-ray bright nova eruption.
AR Pic	*Szegedi, H. et al.* (4 authors) 2022, MNRAS 513, 4682. (1o, 2ab, 5bcdegi) Photometric and spectroscopic study.
HM Pup	*Liakos, A. et al.* (7 authors) 2022, A&A 663, A137. (1ao, 2abo, 5cd) Analysis of the southern eclipsing system with pulsating components.

T Pyx	*Knigge, C., Toonen, S., Boekholt, T.C.N.* 2022, MNRAS 514, 1895. (4ao*, 8c) A triple origin for the recurrent nova.
YZ Ret	*Kato, M., Saio, H., Hachisu, I.* 2022, ApJL 935, L15. (1x*, 5c, 8c, 9) LC analysis of the X-ray flash. *König, O. et al.* (20 authors) 2022, Nature 605, 248. (1ag*x, 2dx, 5g) X-ray detection of the nova in the fireball phase. *Sokolovsky, K.V. et al.* (19 authors) 2022, MNRAS 514, 2239. (2dgx, 5ij) Nova eruption in the nova-like variable.
QX Sge (PSR B1957+20)	*Bai, J.T. et al.* (17 authors) 2022, MNRAS 513, 1794. (1r, 5cg) Detection of strong scattering close to the eclipse region.
υ Sgr	*Hubrig, S. et al.* (4 authors) 2022, ApJ 933, 27. (2c, 3bo) The magnetic field of the stripped primary of the hydrogen-deficient binary.
V1223 Sgr	*Hameury, J.-M., Lasota, J.-P., Shaw, A.W.* 2022, A&A 664, A7. (1ao, 5i) IP magnetically gated accretion model: application to short bursts.
V5668 Sgr	*Takeda, L. et al.* (6 authors) 2022, MNRAS 511, 1591. (1oi, 2a, 5cegi) Optical and near-IR data and modelling.
V Sge	*Smak, J.* 2022, AcA 72, 21. (5ab) Decreasing orbital period. *Zang, L. et al.* (4 authors) 2022, MNRAS 511, 553. (1ao, 5abcegi) Photometric study.
WZ Sge	*Georganti, M. et al.* (4 authors) 2022, MNRAS 511, 5385. (2au, 5di) UV spectroscopic study during outburst.
V632 Sco	*Liakos, A. et al.* (7 authors) 2022, A&A 663, A137. (1ao, 2abo, 5cd) Analysis of the southern eclipsing system with pulsating components.
V818 Sco (Sco X-1)	*Cherepashchuk, A.M., Khruzina, T.S., Bogomazov, A.I.* 2022, ARep 66, 348, (8a) Parameters in the model of partial filling of the optical star Roche lobe.
V1034 Sco (CPD−41°7742)	*Rosu, S. et al.* (5 authors) 2022, A&A 664, A98. (1ao, 2ao, 5abdef) Apsidal motion in the massive eccentric binary.
V1292 Sco (HD 152219)	*Rosu, S. et al.* (5 authors) 2022, A&A 660, A120. (1ao, 2ao, 5cdefgk, 8ac) Massive eccentric EB in NGC 6231.
V1294 Sco (HD 152218)	*Rosu, S. et al.* (5 authors) 2022, A&A 664, A98. (1ao, 2ao, 5abdef) Apsidal motion in the massive eccentric binary.
V1309 Sco	*Mason, E., Shore, S.N.* 2022, A&A 664, A12. (2bo*, 5ij) Revisiting the 2008 outburst spectra. Observational evidence for the theoretical modeling of stellar mergers.
QW Ser	*Szegedi, H. et al.* (4 authors) 2022, MNRAS 513, 4682. (1o, 2ab, 5bcdegi) Photometric and spectroscopic study.
AY Sex (PSR J1023+0038)	*Miraval Zanon, A. et al.* (10 authors) 2022, A&A 660, A63. (1ax, 2dux) Transitional millisecond PSR UV and X-ray pulse amplitude variability.
SV Tau	*Khaliullina, A.I.* 2022, ARep 66, 535. (5b) Light-time effect in the EB orbital period variations.
V725 Tau (1A 0535+262)	*Christodoulou, D.M. et al.* (4 authors) 2022, MNRAS 513, 1. (5gi, 8a) Variations of magnetic multipoles. *Kong, L.-D. et al.* (13 authors) 2022, ApJ 932, 106. (1x, 2x) Phase-dependent evolution by Insight-HXMT during the 2020 giant outburst. *Wang, P.J. et al.* (16 authors) 2022, ApJ 935, 125. (1x, 2x) Timing properties of the X-ray accreting PSR.
BS Tri	*Kolbin, A. et al.* (7 authors) 2022 MNRAS 511, 20. (1ao, 2ab, 5abcdegi) Photometric and spectroscopic study.

EI UMa — *Scaringi, S. et al.* (19 authors) 2022, Nature 604, 447. (1ao*, 2dio, 5ij) Localized thermonuclear bursts from the accreting magnetic WD component.

V496 UMa — *Kennedy, M.R., Littlefield, C., Garnavich, P.M.* 2022, MNRAS 513, 2930. (1ox, 5cegi) Transient two-pole accretion.

V496 UMa — *Ok, S., Schwope, A.* 2022, A&A 662, A116. (1ao, 2dx, 5i) Variable polar.

TT Vel — *Liakos, A. et al.* (7 authors) 2022, A&A 663, A137. (1ao, 2abo, 5cd) Analysis of the southern eclipsing system with pulsating components.

GP Vel (Vel X-1) — *Diez, C.M. et al.* (10 authors) 2022, A&A 660, A19. (2dx, 5ij) Continuum, cyclotron and absorption variability in the HMXB.
Liu, Q. et al. (9 authors) 2022, MNRAS 514, 2805. (2dx, 5ij) Variations of cyclotron resonant scattering features revealed with Insight-HXMT.

HU Vel — *Yan, L.-L. et al.* (5 authors) 2022, RAA 22, 045012. (1g, 5c) The time and energy dependence of the Vela PSR's pulse profile in γ-rays.

HR, HD, HDE, BD, CoD, CPD, SAO Objects

HD 49798 — *Chen, W.-C.* 2022, A&A 662, A79. (8abd) X-ray PSR with a contracting WD and debris disk?

HD 98800 — (see TV Crt)

HD 152218 — (see V1294 Sco)

HD 152219 — (see V1292 Sco)

HD 259440 (HESS J0632+057) — *Kim, J., An, H., Mori, K.* 2022, ApJ 936, 32. (2g) The γ-ray binary broadband emission using an intrabinary shock model.

HD 265435 — *Jayaraman, R. et al.* (7 authors) 2022, ApJL 928, L14. (1ao) Tidally tilted pulsations in the subdwarf B star with a close WD companion.

HD 278064 (TYC 2913-2145-1) — *Barani, C., Acerbi, F, Popov, V.* 2022, RMxAA 58, 73. (1aio, 5abce) Moderate fill-out contact binary.

BD+53°2790 — *Hambaryan, V. et al.* (10 authors) 2022, MNRAS 511, 4123. (21, 3a, 5cdeg, 8a) The HMXB trace back motion.

CPD−41°7742 — (see V1034 Sco)

Objects with names including RA and DEC

CRTS J012111.1+272933 — *Ma, S. et al.* (5 authors) 2022, RAA 22, 095017. (1ao, 5abcgj) Contact binary.

GALEX J015054.4+310745 — *Hillwig, T.C. et al.* (6 authors) 2022, MNRAS 511, 2033. (1ao, 2a, 5cdeg) Evolved CB.

RX J0209.6−7427 — *Karino, S.* 2022, MNRAS 514, 191. (8bcd) Be-type HMXB as a potential ULX source.

Swift J0243.6+6124 — *Karino, S.* 2022, MNRAS 514, 191. (8bcd) Be-type HMXB as a potential ULX source.
Kong, L.-D. et al. (18 authors) 2022, ApJL 933, L3. (1x, 2x) Highest-energy cyclotron resonance scattering from the first Galactic ULX PSR.
Liu, J. et al. (9 authors) 2022, MNRAS 512, 5686. (1gx, 5cdegj, 8d) Super-Eddington accretion.

CRTS J025408.1+265957 — *Ma, S. et al.* (5 authors) 2022, RAA 22, 095017. (1ao, 5abcgj) Contact binary.

SRGA J043520.9+552226 (AT2019wey)	*Mereminskiy, I.A. et al.* (27 authors) 2022, A&A 661, A32. (1aiox, 2dx, 5ij) Peculiar X-ray transient.
XMMU J045315.1−693242	*Haberl, F. et al.* (7 authors) 2022, A&A 662, A22. (2dx, 5ij, 6b) New HMXB in the LMC.
XMMU J045736.9−692727	*Haberl, F. et al.* (7 authors) 2022, A&A 662, A22. (2dx, 5ij, 6b) New HMXB in the LMC.
eRASSU J050810.4−660653	*Salganik, A. et al.* (7 authors) 2022, MNRAS 514, 4018. (1ax, 2dx, 5bc) First characterization of a new HMXB.
1FGL J0523.5−2529	*Halpern, J.P., Perez, K.I., Bogdanov, S.* 2022, ApJ 935, 151. (1o*x, 2x) Optical and X-ray flaring of the putative redback millisecond PSR.
RX J0524.2−6620	*Haberl, F. et al.* (7 authors) 2022, A&A 662, A22. (2dx, 5ij, 6b) New HMXB in the LMC.
1RXS J053246.1−662203 (LMC X-4)	*Ambrosi, E. et al.* (7 authors) 2022, MNRAS 512, 3422. (1x, 5cgi) Disc precession to explain the superorbital modulation. *Rikame, K. et al.* (4 authors) 2022, MNRAS 512, 4792. (1x, 5cgi) QPOs in the persistent X-ray emission.
1A 0535+262	(see V725 Tau)
1A 0538−66	*Ducci, L. et al.* (11 authors) 2022, A&A 661, A22. (1aiox, 2dx, 5ij) Flares from the Be/XB in the LMC.
MAXI J0556−332	*Page, D. et al.* (8 authors) 2022, ApJ 933, 216. (8c) A hyperburst in the NS: evidence for a new type of thermonuclear explosion?
Swift J0503.7−2819	*Halpern, J.P.* 2022, ApJ 934, 123. (1x) Short-period asynchronous or stream-fed IP.
PSR J0610−2100	*van der Wateren, E. et al.* (10 authors) 2022, A&A 661, A57. (1ao, 4cr, 5bc) Irradiated but non-eclipsing black widow binary PSR.
4U 0614+09	(see V1055 Ori)
SRGt J062340.2−265751	*Schwope, A. et al.* (13 authors) 2022, A&A 661, A42. (1aox, 2dx, 5ij, 6b) Bright, strongly variable, novalike CV.
2MASS J06281844−7621467	*Lagos, F. et al.* (8 authors) 2022, MNRAS 512, 2625. (1ao, 2a, 5cdeg) Evidence for a bi-modal distribution of post-mass transfer systems?
HESS J0632+057	(see HD 259440)
MAXI J0637−430	*Ma, R.C. et al.* (18 authors) 2022, MNRAS 514, 5238. (2dx, 5ij) Peculiar spectral evolution of the X-ray transient. *Soria, R. et al.* (4 authors) 2022, MNRAS 515, 3105. (2du*x*, 5bi) A 2-hr binary period for the BH transient.
PSR B0656+14	*Schwope, A. et al.* (16 authors) 2022, A&A 661, A41. (1ax, 2dx, 5gij) Phase-resolved X-ray spectroscopy with SRG/eROSITA and XMM-Newton.
MAXI J0709−159	*Bhattacharyya, S. et al.* (13 authors) 2022, ApJL 933, L34. (2ox, 4a) Decoding the X-ray flare.
SWIFT J0746.3−1608	*Rawat, N. et al.* (4 authors) 2022, MNRAS 512, 6054. (1o, 5bcgi) Detailed time-resolved timing analysis.
1RXH J082623.6−505741	*Sokolovsky, K.V. et al.* (16 authors) 2022, ApJ 934, 142. (1ox, 2ox) Long-period CV with an evolved donor and a low mass-transfer rate.
PSR J0952−0607	*Romani, R.W. et al.* (5 authors) 2022, ApJL 934, L17. (1iou, 2iod, 4a) The fastest and heaviest known Galactic NS companion.
MAXI J0903−531	*Tsygankov, S.S. et al.* (9 authors) 2022, A&A 661, A45. (2dox, 5i) Different states of the transient X-ray PSR.

4FGL J0935.3+0901	*Halpern, J.P.* 2022, ApJL 932, L8. (1aio) Black widow binary candidate.
PSR J0953+0755	*Rejep, R., Yan, W.-M., Wang, N.* 2022, RAA 22, 065005. (1r, 3ar, 5c) Simultaneous 50 cm/10 cm single-pulse polarization observations.
PSR J0955−6150	*Serylak, M. et al.* (20 authors) 2022, A&A 665, A53. (3br, 8c) The eccentric millisecond PSR pulse profile analysis, mass measurements, and constraints on binary evolution.
1FGL J1018.6−5856	*van Soelen, B. et al.* (7 authors) 2022, MNRAS 515, 1078. (1gx, 2ao, 5bd) Improved binary solution for the γ-ray binary.
PSR J1023+0038	(see AY Sex)
PSR J1110−5637	*Dang, S.J. et al.* (13 authors) 2022, RAA 22, 065011. (1r, 3ar, 5c) Subpulse drifting of the PSR.
PSR J1120−3618	*Bhattacharyya, B. et al.* (10 Authors) 2022, ApJ 933, 159. (1r, 6b) Serendipitous discovery of the millisecond PSR.
PSR J1227−4853	*Wang, D., Gong, B.P.* 2022, A&A 663, A75. (8ac) Possible tidal dissipation in millisecond PSR binaries.
PSR B1237+25	*Wang, Z.-W. et al.* (5 authors) 2022, RAA 22, 075002. (3ar, 5fi) Mode changing and modulation of the PSR with FAST.
sRGU J124403.8−632231	*Doroshenko, V. et al.* (15 authors) 2022, A&A 661, A21. (1ax, 2diox, 5gi, 6b) A new Be/XB PSR discovered in the all-sky survey by the Spectrum-Roentgen-Gamma (SRG) mission.
VHS J125601.92−125723.9	*Climent, J.B. et al.* (11 authors) 2022, A&A 660, A65. (4cr) Radio emission in the ultra-cool dwarf binary.
MAXI J1348−630	*Alabarta, K. et al.* (7 authors) 2022, MNRAS 514, 2839. (1x, 5i) Variability and phase lags of the type-C QPOs in the BH LMXB. *Carotenuto, F., Tetarenko, A.J., Corbel, S.* 2022, MNRAS 511, 4826. (5gij) Modelling the kinematics of the decelerating jets. *Jia, N. et al.* (10 authors) 2022, MNRAS 511, 3125. (1x*, 5cegi) Detailed analysis on the reflection component. *Kumar, R. et al.* (4 authors) 2022, MNRAS 513, 4869. (1x, 5ceggi) Estimation of spin and mass. *Panizo-Espinar, G. et al.* (14 authors) 2022, A&A 664, A100. (2aio, 5ij) Discovery of optical and infrared AD wind signatures in the BH candidate.
ZTF J1406+1222	*Burdge, K.B. et al.* (33 authors) 2022, Nature 605, 41. (1aio, 2ao, 5cd) A 62-minute orbital period black widow binary in a wide hierarchical triple.
MAXI J1535−571	*Chen, X. et al.* (12 authors) 2022, MNRAS 513, 4875. (1x, 5cg) A study of the spectral-timing properties. *Dong, Y. et al.* (7 authors) 2022, MNRAS 514, 1422. (2dx, 5i) XB hard and intermediate state reflection spectra. *Gang, A., Misra, R., Sen, S.* 2022, MNRAS 514, 3285. (1x, 5i) The energy dependence of QPOs in the BH system. *Rodi, J., Jourdain, E., Roques, J.P.* 2022, ApJ 935, 25. (1g, 2g) Outburst observed and the origin of its hard tail. *Zhang, Y. et al.* (17 authors) 2022, MNRAS 512, 2686. (1x, 5cegi) Evolution of corona through type-C QPOs.
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4U 1608−52	(see QX Nor)

1SWASP J162545.15−043027.9	*Lee, J.W., Hong, K., Park, J.-H.* 2022, MNRAS 511, 654. (2a, 5deg) Absolute properties based on high-resolution spectroscopy.
IGR J16328−4726	*Zhang, W.-L. et al.* (4 authors) 2022, RAA 22, 065012. (2dx, 5gij) Statistical properties of X-ray flares from the supergiant fast X-ray transient.
4U 1636−536	(see V801 Ara)
IGR J16418−4532	*Zhang, W.-L. et al.* (4 authors) 2022, RAA 22, 065012. (2dx, 5gij) Statistical properties of X-ray flares from the supergiant fast X-ray transient.
PSR J1646−2142	*Bhattacharyya, B. et al.* (10 Authors) 2022, ApJ 933, 159. (1r, 6b) Serendipitous discovery of the millisecond PSR.
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4U 1700+24	(see V934 Her)
XTE J1701−462	*Peirano, V., Méndez, M.* 2022, MNRAS 513, 2804. (1x, 5cegi) Lags of the kHz QPOs.
4FGL J1702.7−5655	*Corbet, R.H.D. et al.* (11 authors) 2022, ApJ 935, 2. (1grx) Candidate redback γ-ray eclipses and orbital modulation transitions.
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AX J1714.1−3912	*Sidoli, L. et al.* (5 authors) 2022, MNRAS 512, 2929. (1x*, 5ceg) Discovery of very high obscuration.
4U 1724−30	*Kashvap, U., Chakraborty, M., Bhattacharyya, S.* 2022, MNRAS 512, 6180. (1x, 5cegi) Probing the spectral and temporal evolution.
MAXI J1727−203	*Wang, S. et al.* (8 authors) 2022, MNRAS 514, 5320. (1x, 5ij) Constraining the XB parameters.
LAMOST J172900.17+652952.8	*Zheng, L.-L. et al.* (19 authors) 2022, ApJ 936, 33. (2o*, 6b) A WD-main-sequence binary unveiled by time-domain observations.
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H 1743−322	*Wang, P.J. et al.* (96 authors) 2022, MNRAS 512, 4541. (1x, 5cg) A study of the 2018 outburst.
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GRS 1758−258	*Jana, A. et al.* (5 authors) 2022, ApJ 936, 3. (1x, 2x) Galactic BH candidate spin.
IGR J18007−4146	*Coughenour, B.M. et al.* (8 authors) 2022, MNRAS 511, 4582. (1iox, 5cegi) An IP-type CV.
MAXI J1803−298	*Chand, S. et al.* (5 authors) 2022, ApJ 933, 69. (1x, 2ioux) The hard-intermediate state. *Jana, A. et al.* (6 authors) 2022, MNRAS 511, 3922. (1x, 5cegi) Broad-band X-ray timing and spectral analysis.

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MAXI J1810−222	*Russell, T.D. et al.* (13 authors) 2022, MNRAS 513, 6196. (1rx, 5cgi, 8a) Nature and properties.
4U 1812−12	*Armas-Padilla, M. et al.* (10 authors) 2022, ApJL 931, L9. (1g) System may be a precursor of an ultracompact XB.
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SRGA J181414.6−225604	*De, K. et al.* (27 authors) 2022, ApJ 935, 36. (1x, 6b) Symbiotic XB outburst triggered by an intense mass-loss episode of a Mira variable.
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PSR J1828+0625	*Bhattacharyya, B. et al.* (10 Authors) 2022, ApJ 933, 159. (1r, 6b) Serendipitous discovery of the millisecond PSR.
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IGR J18450−0435	*Zhang, W.-L. et al.* (4 authors) 2022, RAA 22, 065012. (2dx, 5gij) Statistical properties of X-ray flares from the supergiant fast X-ray transient.
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Swift J1858.6−0814	*Knight, A.H., Ingram, A., Middleton, M.* 2022, MNRAS 514, 1908. (2dx, 5ij, 8c) Inclination and mass ratio constraints from X-ray eclipse mapping. *Rhodes, L. et al.* (7 authors) 2022, MNRAS 513, 2708. (1rx, 5cegi) Results of a long-term radio monitoring campaign.
PSR B1859+07	*Wang, L. et al.* (6 authors) 2022, RAA 22, 045001. (3ar) Unusual emission from the PSR using FAST.

4U 1908+075	*Shtykovsky, A.E., Arefiev, V.A., Lutovinov, A.A.* 2022, AstL 48, 284. (1x, 2). Broadband analysis of the wind system based on NuSTAR data.
GRS 1915+105	(see V1487 Aql)
2MASS J19191633+4043261 (KIC 5527172)	*Wang, J. et al.* (7 authors) 2022, MNRAS 511, 2285. (1ao, 2a, 5abcdeg) Properties and evolution of spots on the detached EB in the LAMOST-Kepler survey.
ASASSN-V J192114.84+624950.8	*Way, Z.S. et al.* (8 authors) 2022, MNRAS 514, 200. (1ao*, 2c, 5cg) Highly eccentric, chromospherically active EB.
2MASS J19231361+4220381 (KIC 6859813)	*Wang, J. et al.* (7 authors) 2022, MNRAS 511, 2285. (1ao, 2a, 5abcdeg) Properties and evolution of spots on the detached EB in the LAMOST-Kepler survey.
2MASS J19234831+4032527	*Southworth, J.* 2022, Obs 142, 103. (1ao, 2ao*, 5e) Rediscussion of eclipsing binaries. Paper 9: The solar-type system KIC 5359678.
2MASS J19273164+4358234 (KIC 8097825)	*Wang, J. et al.* (7 authors) 2022, MNRAS 511, 2285. (1ao, 2a, 5abcdeg) Properties and evolution of spots on the detached EB in the LAMOST-Kepler survey.
eRASSt J192932.9−560346	*Schwope, A. et al.* (8 authors) 2022, A&A 661, A43. (1aox, 2dx, 3bo, 5gij) Discovery of an eclipsing, two-pole accreting magnetic CV.
2MASS J19305232+4155208 (KIC 6525196)	*Pan, Y. e al.* (5 author) 2022, RAA 22, 075014. (1ao, 2abo, 5cdeg) Physical properties and starspot activity of the triple system.
PSR B1937+21	*Hazboun, J.S. et al.* (20 authors) 2022, ApJ 928, 67. (1x) No red noise detected.
UGPS J194310.32+183851.8	*Morris, C. et al.* (10 authors) 2022, MNRAS 514, 6002. (1aiox, 2co, 5ci) An unusual optical and X-ray faint CV?
SRGA J194638.9+704552	*Zaznobin, I. et al.* (9 authors) 2022, A&A 661, A39. (1aiox, 2dx, 5ij) CV identified by the ART-XC and eROSITA telescopes.
PSR B1957+20	(see QX Sge)
SRGA J204547.8+672642	*Zaznobin, I. et al.* (9 authors) 2022, A&A 661, A39. (1aiox, 2dx, 5ij) CV identified by the ART-XC and eROSITA telescopes.
ASAS J210406−0522.3	*Wadhwa, S.S. et al.* (4 authors) 2022, JApA 43, 42. (1ao, 5abc) Analysis of dual band and survey photometry of the low-mass-ratio contact binary.
ZTF J213056.71+442046.5	*Mereghetti, S. et al.* (12 authors) 2022, ApJ 931, 13. (2cdx) No strong X-ray emission from the lobe-filling WD plus hot subdwarf system.
4U 2206+54	(see BD+53°2790)
SRGA J225412.8+690658	*Zaznobin, I. et al.* (9 authors) 2022, A&A 661, A39. (1aiox, 2dx, 5ij) CV identified by the ART-XC and eROSITA telescopes.

X-ray sources with constellation or galaxy names

Cen X-4	(see V822 Cen)
Cyg X-1	(see V1357 Cyg)
Cyg X-3	(see V1521 Cyg)
Her X-1	(see HZ Her)
LMC X-4	(see 1RXS J053246.1−662203)
Sco X-1	(see V818 Sco)

Sct X-1 — *Bozzo, E. et al.* (4 authors) 2022, MNRAS 513, 42. (1gx, 5cegi) Symbiotic XB broad-band X-ray and soft γ-ray spectroscopy.
De, K. et al. (12 authors) 2022, ApJL 928, L8. (1iox, 2ci) Symbiotic binary donor star identified as a Mira variable.

SMC X-2 — *Roy, A. et al.* (6 authors) 2022, ApJ 936, 90. (1oux) The luminosity-dependent pulse profile and emission geometry during a giant outburst.

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Vel X-1 — (see GP Vel)

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AT2019wey — (see SRGA J043520.9+552226)

GRB 190829A — *Wang, Y. et al.* (10 authors) 2022, ApJ 936, 190. (1g*x*, 2g*o*x*) Type-II binary-driven hypernova model.

GRB 201221D — *Yuan, H.-Y. et al.* (8 authors) 2022, RAA 22, 075011. (2dx, 5cj) Probing the progenitor of the high-z short-duration γ-ray burst: observations favor a compact star merger origin.

GRB 210217A — *Dimple, K.M. et al.* (8 authors) JApA 43, 39. (1g, 2dgoux, 5cj) A short or a long γ-ray burst?

GRB 210919A — *Mereminskiy, I.A. et al.* (15 authors) 2022, AstL 48, 370. (1x) Pre-burst emission from binary NS mergers with Spectrum-Roentgen-Gamma.

GSC 05586-00371 — *Brincat, M.S. et al.* (5 authors) 2022, OEJV 231, 1. (1a, 5abc, 6d) An active EW/RS CVn EB.

GSC 3937-02349 — *Volkov, I.* 2022, PZ 42 No. 6, 35. (5b) A third body in the new W UMa variable.

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Salafia, O.S., Giacomazzo, B. 2022, A&A 660, C1. Accretion-to-jet energy conversion (Corrigendum to 2021, A&A 645, A93).

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GX 339-4 — (see V821 Ara)

Herschel 36 — *Sanchez-Bermudez, J. et al.* (11 authors) 2022, MNRAS 514, 1162. (2ao*, 4co, 5de) High-mass triple system.

KIC 5359678 — (see 2MASS J19234831+4032527)

KIC 5527172 — (see 2MASS J19191633+4043261)

KIC 6525196 — (see 2MASS J19305232+4155208)

KIC 6859813 — (see 2MASS J19231361+4220381)

KIC 8097825 — (see 2MASS J19273164+4358234)

LB 1 — *Hennicker, L. et al.* (8 authors) 2022, A&A 660, A17. (7d) Binary-object spectral-synthesis in 3D (BOSS-3D): Modeling H_α emission.

LS I +61 303 — (see V615 Cas)

MWC 166 — (see V750 Mon)

NGC 2004 ELS 115	*Lennon, D.J. et al.* (8 authors) 2022, A&A 665, A180. (2ao, 5d) The VLT-FLAMES survey of massive stars: a triple system hosting a possible short period B+BH binary.
SN 1987A	*Nakamura, K., Takiwaki, T., Kotake, K.* 2022, MNRAS 514, 3941. (8bcd) 3D simulation of a core-collapse SN for a binary star progenitor.
SS 433	(see V1343 Aql)
SXP 1323	*Mereminskiy, I.A. et al.* (7 authors) 2022, A&A 661, A33. (2dx, 5ijk) SRG X-ray view of the rapidly accelerating PSR.
THA 15-31	*Munari, U. et al.* (7 authors) 2022, A&A 661, A124. (2dioux, 5dgi) New symbiotic of the accreting-only variety.
TIC 137608661	*Silvotti, R. et al.* (8 authors) 2022, MNRAS 511, 2201. (1ao, 5abcegk) A new sdBV+dM systen with well-defined rotational splitting.
TIC 320687387 B	*Gill, S. et al.* (29 authors) 2022, MNRAS 513, 1785. (1ao, 2a, 5abcdeg) Eclipsing M dwarf close to the hydrogen burning limit.
TIC 452991693	*Zasche, P. Henzl, Z.* 2022, AcA 72, 103. (1a, 5abc, 6d) Candidate sextuple system with three EBs.
TIC 452991707	*Zasche, P. Henzl, Z.* 2022, AcA 72, 103. (1a, 5abc, 6d) Candidate sextuple system with three EBs.
TIC 5724661	*Jayaraman, R. et al.* (11 authors) 2022, ApJ 936, 123. (1ao, 2oi, 5, 8) A long-period binary with a pulsating sdB star and a δ Scuti variable.
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TUVO-21acq	*Modiano, D. et al.* (6 authors) 2022, A&A 664, A165. (1au, 2co, 6b) A new CV discovered through a UV outburst.
TYC 2402-643-1	*Barani, C., Acerbi, F, Popov, V.* 2022, RMxAA 58, 73. (1aio, 5abce) Moderate fill-out contact binary.
TYC 2703-1235-1	*Barani, C., Acerbi, F, Popov, V.* 2022, RMxAA 58, 73. (1aio, 5abce) Moderate fill-out contact binary.
TYC 2913-2145-1	(see HD 278064)
TYC 2990-127-1	*Kovalev, M. et al.* (6 authors) 2022, MNRAS 513, 4295. (1ao, 2a, 5bcdegj, 8a) Algol-type SB2 with ongoing mass transfer.
TYC 6996-449-1	*Lagos, F. et al.* (8 authors) 2022, MNRAS 512, 2625. (1ao, 2a, 5cdeg) Evidence for a bi-modal distribution of post-mass transfer systems?
TYC 8097-337-1	*Lagos, F. et al.* (8 authors) 2022, MNRAS 512, 2625. (1ao, 2a, 5cdeg) Evidence for a bi-modal distribution of post-mass transfer systems?
TYC 8351-1081-1	*Wadhwa, S.S. et al.* (4 authors) 2022, JApA 43, 42. (1ao, 5abc) Analysis of dual band and survey photometry of the low-mass-ratio contact binary.
USNO-B1.0 1421-0485411	*Yisi L. et al.* (14 authors) 2022, AJ 163, 167. (1a, 2a, 5ace, 6d) New EB with secondary component having a large albedo.
W3 IRS 5	*Li, J. et al.* (4 authors) 2022, ApJ 935, 161. (2i) High-resolution M-band spectroscopy of CO toward the massive young stellar binary.
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General

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