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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

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b. New or improved ephemeris, period variations
c. Parameters derivable from light curves
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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

EG And	*Shagatova, N. et al.* (6 authors) 2021, A&A 646, A116. (2aco, 5j) Wind mass transfer in the S-type symbiotic binary.
RY Aqr	*Khaliullina, A.I.* 2021, ARep 65, 126. (5b) EB orbital period variation.
CK Aqr	*Bonnardeau, M.* 2020, OEJV 209. (1a, 5abc) EB with third body.
DO Aql	*Harvey, E.J. et al.* (11 authors) 2020, MNRAS, 499, 2959. (1io, 2aco, 5j, 6d) Discovery of a nova shell.
V923 Aql (HD 183656)	*Wolf, M. et al.* (12 authors) 2021, A&A 647, A97. (1ao, 2ao, 5i) Long-term, orbital, and rapid variations of the Be star.
V1315 Aql	*Fang, X., Qian, S.* 2021, MNRAS 501, 3046. (5gj, 8ad) The system will not enter into hibernation.
V1405 Aql (XB 1916−053)	*Iaria, R. et al.* (8 authors) 2021, A&A 646, A120. (2cx, 5ahj) Evidence of non-conservative mass transfer in the ULX source.
V1487 Aql (GRS 1915+105)	*Banerjee, A. et al.* (4 authors) 2020, RAA 20, 208. (2dx, 5ij) Spectral analysis of χ class data using Two-Component Convective Flow (TCAF). *Garg, A., Misra, R., Sen, S.* 2020, MNRAS, 498, 2757. (2dx, 5i, 8b) Identifying the radiative components responsible for the BH system QPOs. *Koljonen, K.I.I., Hovatta, T.* 2021, A&A 647, A173. (1ax, 3ar, 5j) ALMA/NICER observations indicate a return to a hard state. *Kong, L.D. et al.* (98 authors) 2021, ApJL 906, L2. (1x, 2x) Fast transition from the jet- to wind-dominated state during a huge flare. *Liu, H. et al.* (8 authors) 2021, ApJ 909, 63. (2x) Testing evolution of low-frequency QPOs with mass accretion rate. *Ratheesh, A. et al.* (6 authors) 2021, A&A 646, A154. (2x, 5j) Variable magnetic disc wind.
V1828 Aql (NSVS 14256825)	*Wolf, M. et al.* (7 authors) 2021, A&A 647, A65. (1a, 5b) Possible sub-stellar companion in the dwarf EB.
V341 Ara	*Segura, N.C. et al.* (24 authors) 2021, MNRAS 501, 1951. (1ao, 2ac, 5cdegi) Bow shocks, nova shells, disc winds and tilted discs.
V801 Ara (4U 1635−536)	*Li, C. et al.* (5 authors) 2021, MNRAS 501, 168. (1x, 5cgi) Multipeaked type-I X-ray bursts.
V821 Ara (GX 339-4)	*Sonbas, E. et al.* (5 authors) 2020, MNRAS, 499, 2513. (1x, 2dx, 5i) RXTE data to extract a characteristic minimal time-scale for the spectral states. *Tripathi, A. et al.* (6 authors) 2021, ApJ 907, 31. (2x) Kerr BH hypothesis tested using the system's thermal spectrum and reflection features.
SS Aur	*Godon, P., Sion, E.M.* 2021, ApJ 908, 173. (2co*, 5g) CV WD photospheric abundances.
MW Aur	*Yang, D.-Y., Li, L.-F., Han, Q.-W.* 2021, RAA 21, 22. (1ao, 2ao, 5abcde) Poorly studied detached EB.
OV Boo	*Schwope, A., Worpel, H., Traulsen, I.* (5 authors) 2021, A&A 646, A181. (1ux, 5j) Eclipsing CV with a degenerate donor.
CO Cam	*Fuller, J. et al.* (4 authors) 2020, MNRAS, 498, 5730. (8a) Tidally trapped pulsations in the binary system.
OQ Cam	*Guo, Y.-N. et al.* (6 authors) 2020, RAA 20, 179. (1ao, 5abcj) The first photometric investigation of the contact binary.
EG Cnc	*Kimura, M. et al.* (47 authors) 2021, PASJ 73, 1. (1ao, 5i) The WZ Sge-type dwarf nova 2018 superoutburst.

EH Cnc	*Alton, K.B., Nelson, R.H., Stępień, K.* 2020, JApA 41, 26. (1ao, 2ao, 5abcde) A comprehensive investigation of the variable overcontact system.
IL Cnc	*Liu, N.-P. et al.* (4 authors) (4 authors) 2020, PASJ 72, 73. (1ao, 2ao, 5abcde) Active early K-type contact system.
IO Cnc	*Liao, W.-P. et al.* (4 authors) 2021, RAA 21, 41. (1ao, 5abcj, 9) The first photometric investigation of the G-type shallow contact binary.
η Car	*Abraham, Z. et al.* (5 authors) 2020, MNRAS, 499, 2493. (1m, 5j) High-angular resolution continuum, H30α, and He30α ALMA images. *Gull, T.R. et al.* (7 authors) 2020, MNRAS 499, 5269. (1r, 2cg) Far IR/submillimetre spectral lines detected.
V906 Car (ASASSN-18fv)	*Sokolovsky, K.V. et al.* (18 authors) 2020, MNRAS, 497, 2569. (1agox, 2cdgx, 4a, 5hij) The brightest γ-ray nova.
RZ Cas	*Lehmann, H. et al.* (6 authors) 2020, A&A 644, A121. (2ac, 5bdgk) Parameters from long-term spectroscopic monitoring of the Algol system.
UU Cas	*Mennickent, R.E. et al.* (10 authors) 2020, A&A 642, A211. (1aio, 5bcei) Massive interacting binary.
BC Cas	*Kato, T., Kojiguchi, N.* 2020, PASJ 72, 98. (1ao, 5ij) First detection of an IW And-type phenomenon in the post-eruption nova.
HT Cas	*Neustroev, V.V., Zharikov, S.V.* 2020, A&A 642, A100. (2bco, 5abi) CV AD expansion beyond the accretor's Roche lobe.
MT Cas	*Jiang, L. et al.* (4 authors) 2021, JApA 42, 10. (1ao, 5abcj) Short-period EB.
V615 Cas (LS I +61°303)	*Kravtsov, V. et al.* (11 authors) 2020, A&A 643, A170. (3ao) New constraints on the HMXB orbital parameters. *Massi, M. et al.* (10 authors) 2020, MNRAS, 498, 3592. (1grx, 2dgx, 5ij) Evidence for periodic accretion-ejection events. *Sharma, R. et al.* (9 authors) 2021, MNRAS 500, 4166. (1rx, 5cg, 8a) Radio/X-ray correlations and variability.
V772 Cas	*Kochukhov, O. et al.* (7 authors) 2021, MNRAS 500, 2577. (1ao, 2ac, 5abcdeg) An ellipsoidal HgMn star in an EB.
V779 Cen (Cen X-3)	*Tomar, G., Pradham, P., Paul, B.* 2021, MNRAS 500, 3454. (1x, 5cdgi) New measurements of the cyclotron line energy. *Sanjurjo-Ferrrín, G. et al.* (6 authors) 2021, MNRAS 501, 5892. (1x, 5cgi) Evidence for inhomogeneous accretion flows.
V885 Cen (HD 101584)	*Kluska, J. et al.* (12 authors) 2020, A&A 642, A152. (4cir, 5ij) The close environment of the evolved post-RGB binary.
V1200 Cen	*Marcadon, F. et al.* (8 authors) 2020, MNRAS, 499, 3019. (1ao, 2ao, 5abcdeg) EB in a multiple stellar system.
CW Cep	*Lee, J.W., Hong, K.* 2021, AJ 161, 32. (1ao, 5bcde) β Cephei pulsations in the high-mass detached EB.
ES Cet	*Bąkowska, K. et al.* (5 authors) 2021, A&A 645, A114. (2cd, 5i) Disc accretion and evidence of eclipses in the He-rich binary.
HP Cet	*Nucita, A.A. et al.* (4 authors) 2020, MNRAS, 498, 2688. (1xuo, 2dx, 5bi) XMM-Newton study of the IP candidate.
ET Cha	*Ginski, C. et al.* (28 authors) 2020, A&A 642, A119. (4ci, 6b) A low-mass companion to the η Cha cluster member.
T CrB	*Pavlenko, Y.V. et al.* (8 authors) 2020, MNRAS, 498, 4853. (2ic, 5h) Isotopic ratios in the red giant component of the recurrent nova.

DD CrB (NSVS 7826147)	*Wolf, M. et al.* (7 authors) 2021, A&A 647, A65. (1a, 5b) Dwarf EB with a possible substellar companion.
W Crv	*Eaton, J.A., Odell, A.P., Nitschelm, C.* 2021, MNRAS 500, 145. (2ac, 5dgj) Doppler profiles.
RT Cru	*Danekhar, A. et al.* (4 authors) 2021, MNRAS 500, 4801. (1x, 5cgi) Long-term X-ray variability.
BP Cru (GX 301-2)	*Ji, L. et al.* (103 authors) 2021, MNRAS 501, 2522i. (1x, 5cgi) Absorption and emission features.
V404 Cyg	*Asuma, K. et al.* 2020, PASJ 72, 77. (1r, 5ij) Observations during the 2015 outburst by the Nasu telescope array at 1.4 GHz.
V1341 Cyg (Cyg X-2)	*Psaradaki, I. et al.* (10 authors) 2020, A&A 642, A208. (2dx) Interstellar O along the line of sight to the LMXB.
V1357 Cyg (Cyg X-1)	*Kantzas, D. et al.* (13 authors) 2021, MNRAS 500, 2112. (1gmrx, 5cgi, 8a) A new lepto-hadronic model for the HMXB.
	Miller-Jones, J.C.A. et al. (26 authors) 2021, Science 371, 1046. (4cr, 5ij) Contains a 21 solar mass BH – Implications for massive stellar winds.
	Neijssel, C.J. et al. (8 authors) 2021, ApJ 908, 118. (8a) Wind mass-loss rates of stripped stars.
	Palit, I., Janiuk, A., Czerny, B. 2020, ApJ 904, 21. (8bd) Clumpy wind accretion to explain short timescale variability.
	Zhao, X. et al. (9 authors) 2021, ApJ 908, 117. (2x*) Re-estimating the BH spin parameter.
V1521 Cyg (Cyg X-3)	*Cangemi, F. et al.* (6 authors) 2021, A&A 645, A60. (2bx) INTEGRAL discovery of a high-energy tail in the microquasar.
	Egron, E. et al. (19 authors) 2021, ApJ 906, 10. (1r) Mini and giant radio flare episodes.
	Sinitsyna, V.G., Sinitsyna, V.Y. 2021, AN 342, 337. (1g) The system is a γ-ray binary.
V1679 Cyg (WR 137)	*St-Louis, N. et al.* (42 authors) 2020, MNRAS, 497, 4448. (1ao, 2ao, 5ijk) Wind asymmetries in the dust-forming WC7 binary.
V1687 Cyg (WR 140)	*Zhekov, S.* 2021, MNRAS 500, 4837. (1x, 5cgj, 8a) Colliding stellar winds.
V2364 Cyg	*Yuan, H.-Y. et al.* (5 authors) 2020, RAA 20, 203. (1ao, 5abcj) IR-excess EB.
V2466 Cyg	*Antipin, S.V. et al.* (6 authors) 2020, AstL 46, 677. (1a, 5bc, 6b). The 2003 and 2019 superoutbursts of the long-period dwarf nova.
α Del	*Gardner, T. et al.* (22 authors) 2021, AJ 161, 40. (2ao, 4ac, 5cde) Orbit of the B-type binary triple companion.
NN Del	*Kniazev, A.* 2020, Ap&SS 365, 169. (2ao, 5de) Long-period EBs: towards the true mass-luminosity relation. II. Absolute parameters.
κ Dra	*Saad, S.M. et al.* (4 authors) 2021, RMxAA 57, 91. (2ao, 5d) SB1 time variability and line profile variations.
ν Gem	*Gardner, T. et al.* (22 authors) 2021, AJ 161, 40. (2ao, 4ac, 5cde) Orbit of the B-type binary triple companion.
U Gem	*Takeo, M. et al.* (5 authors) 2021, PASJ 73, 143. (2cdx, 5i) Spatial distribution of the X-ray-emitting plasma in quiescence and outburst.
π^1 Gru	*Homan, W. et al.* (38 authors) 2020, A&A 644, A61. (4cr, 5j, 6b) First detection of a new companion and its effect on the AGB star inner wind.

AH Her	*Echevarria, J. et al.* (10 authors) 2021, MNRAS 501, 596. (2abc, 5bdeg) Evidence for material outside the tidal radius.
AM Her	*Schwope, A.D. et al.* (4 authors) 2020, A&A 642, A134. (2dx, 5i) Accretion models from multi wavelengths in high accretion states.
DI Her	*Anderson, K.R., Lai, D.* 2021, ApJ 906, 17. (8ad) Excitation of spin-orbit misalignments in stellar binaries with circumbinary disks.
HZ Her (Her X-1)	*Brumback, M.C. et al.* (8 authors) 2021, ApJ 909, 186. (1x, 2x) Precessing AD and pre-eclipse dip. *Caiazzo, I., Heyl, J.* 2021, MNRAS 501, 129. (8a) Polarized emission. *Kolesnikov, D.A. et al.* (16 authors) 2020, MNRAS, 499, 1747. (1ao, 5cdi) The 35-d superorbital cycle in the IMXB B and V LCs. *Leay, D., Wang, Y.* 2020, ApJ 902, 146. (1x) Observations of 35-day cycle consistent with precessing AD model. *Staubert, R. et al.* (9 authors) 2020, A&A 642, A196. (2dx, 5i) Constant cyclotron line energy since 2012.
V1094 Her	*Jiang, L. et al.* (4 authors) 2021, JApA 42, 10. (1ao, 5abcj) Short-period EB.
V1179 Her	*Broens, E.* 2021, MNRAS 501, 4935. (1ao, 5abcegj) Photometry/period.
V1460 Her	*Ashley, R.P. et al.* (9 authors) 2020, MNRAS, 499, 149. (1uo, 2abcuo, 5abcdegijk) CV with a fast spinning WD accreting from an evolved donor.
V1511 Her	*Broens, E.* 2021, MNRAS 501, 4935. (1ao, 5abcegj) Photometry/period.
AR Lac	*Karakuş, O., Ekmekiçi, F.* 2021, RMxAA 57, 167. (1ao, 2do, 5ij) Extended matter around the cooler component.
α Leo A	*Gies, D.R. et al.* (9 authors) 2020, ApJ 902, 25. (2ao, 5be) Spectroscopic detection of a pre-WD companion.
AM Leo	*Gorda, S.Yu.* 2020, ARep 64, 922. (1a, 5c). Cyclical changes in the extra-eclipse brightness and the period of the W UMa-type CB.
OW Leo	*Zhou, X., Qian, S.-B.* 2021, RAA 21, 27. (1ao, 5abce) Orbital period correction and LC modeling of the W-subtype shallow contact binary.
β Lyr	*Brož, M. et al.* (10 authors) 2021, A&A 645, A51. (2aco, 4co, 5j) The optically thin circumstellar medium.
V583 Lyr (KIC 4245897)	*Zhang, J., Qian, S.B., Lyu, B.* 2020, PASP 132, 114201. (1a, 2a, 5cde) Low-mass-ratio semidetached binary.
TU Men	*Godon, P., Sion, E.M.* 2021, ApJ 908, 173. (2co*, 5g) CV WD photospheric abundances.
U Mon	*Vega, L.D. et al.* (10 authors) 2021, ApJ 909, 138. (1dux, 2a, 4c, 5i) Long-term variability explained by binary interactions with a circumbinary disk.
V680 Mon	*Volkov, I.M., Kravtsova, A.S., Chochol, D.* 2021, ARep 65, 184. (1a, 5abcef). EB with the highest known eccentricity.
V959 Mon	*Nelson, T. et al.* (10 authors) 2021, MNRAS 500, 2798. (1gx, 5cg, 8a) X-ray evolution.
QX Nor (4U 1608−52)	*Šimon, V.* 2020, PASJ 72, 100. (2dx, 5ij) A quasi-persistent X-ray source.
V2293 Oph (GRS 1716−249)	*Cúneo, V.A. et al.* (15 authors) 2020, MNRAS, 498, 25. (1aox, 2ao, 5i) Discovery of optical outflows and inflows in a BH candidate.
V1055 Ori (4U 0614+091)	*Marino, A. et al.* (12 authors) 2020, MNRAS, 498, 3351. (1aoux, 2dx, 5i) Testing jet geometries and disc-jet coupling in the LMXB NS with the internal shocks model.

X Per	*Zamanov, R.K. et al.* (10 authors) 2020, MNRAS 499, 3650. (2c, 5dgi, 8b) An eccentric wave in the circumstellar disc.
IM Per	*Lee, J.W., Hong, K., Kim, H.-Y.* 2021, AJ 161, 129. (1ao, 5bc) Tidally excited modes and δ Scuti pulsations in the eclipsing triple system.
V1023 Per	*Samec, R., Caton, D., Faulkner, D.R.* 2020, AJ 160, 175. (1ao, 5abc) Detached pre-WUMa binary with polar spots and complex LC behavior.
AI Phe	*Maxted, P.F.L. et al.* (12 authors) 2020, MNRAS, 498, 332. (1ao, 5acefg) Masses and radii from TESS data using different LC analysis methods. *Miller, N.J., Maxted, P.F.L., Smalley, B.* 2020, MNRAS, 497, 2899. (1auio, 2o, 5cegh) Method to derive EB effective temperatures.
12 Psc	*Bowler, B.P. et al.* (10 authors) 2021, AJ 161, 106. (2ao, 4ic, 5de) WD companion detected.
ZZ PsA	*Wadhwa, S. et al.* (7 authors) 2021, MNRAS 501, 229. (1ao, 5abceg, 8a) The first multiband photometric analysis.
V445 Pup	*Nyamai, M.M. et al.* (6 authors) 2021, MNRAS 501, 1394. (1r, 5cg, 8a) Radio LCs and imaging.
V505 Sgr	*Khaliullina, A.I.* 2020, ARep 64, 915. (5b) EB orbital period variation.
V3890 Sgr	*Page, K.L. et al.* (9 authors) 2020, MNRAS 499, 4814. (1oux, 2bc, 5cdgi) The 2019 eruption. *Singh, K.P. et al.* (6 authors) 2021, MNRAS 501, 36. (1x, 5cg) X-ray observations during the 2019 outburst.
V4362 Sgr	*Harvey, E.J. et al.* (11 authors) 2020, MNRAS, 499, 2959. (1io, 2aco, 5j, 6d) Discovery of a nova shell.
V4580 Sgr (SAX J1808.4−3658)	*Baglio, M.C. et al.* (10 authors) 2021, ApJ 905, 87. (1avix*, 3a) The XB variable and polarized jet. *Goodwin, A.J. et al.* (15 authors) 2020, MNRAS, 498, 3429. (1aoux, 2bcdox, 5ij) Enhanced optical activity in the LMXB 12 days before X-ray activity, and a 4-day X-ray delay during the outburst rise.
V5512 Sgr (GX 13+1)	*Tomaru, R. et al.* (5 authors) 2020, MNRAS, 497, 4970. (2cdx, 5ij) The NS X-ray absorption lines.
AK Sco	*Gómez de Castro, I. et al.* (5 authors) 2020, ApJ 904, 120. (2cdu) Accretion and intercycle variations.
AR Sco	*Takata, J. et al.* (7 authors) 2021, ApJ 907, 115. (1x, 2x) WD binary.
V818 Sco (Sco X-1)	*Ding, G.Q., Chen, T.T., Qu, J.L.* 2021, MNRAS 500, 772. (1x*, 5cgi, 8a) The hard X-ray spectral tails.
V884 Sco (4U 1700−37)	*Martinez-Chicharro, M. et al.* (9 authors) 2021, MNRAS 501, 5646. (2dx, 5dg) High-resolution X-ray spectroscopy.
V1007 Sco (HD 152248)	*Rosu, S. et al.* (6 authors) 2020, A&A 642, A221. (5f, 8ac) Apsidal motion in the massive binary.
V659 Sct	*Jack, D. et al.* (7 authors) 2020, AN 341, 781. (2c) Nova optical spectra time series.
AO Ser	*Park, J.H. et al.* (5 authors) 2020, AJ 160, 247. (1ao, 2ao, 5bcde) Primary is a δ Scuti star.
NP Ser (GX 17+2)	*Malu, S., Sriram, K., Agrawal, V.K.* 2020, MNRAS, 499, 2214. (1x, 2dx, 5ci) Coronal vertical structure variations in normal branch, an AstroSat's SXT and LAXPC perspective.
SW Sex	*Fang, X. et al.* (4 authors) 2020, ApJ 901, 113. (1ao, 5b) Period variations could be due to Applegate mechanism or a giant planet.

VZ Sex — *Nucita, A.A. et al.* (6 authors) 2021, ApJ 906, 134. (2dx) IP confirmed.

AY Sex (PSR J1023+0038) — *Bhattacharyya, S.* 2020, MNRAS, 498, 728. (8) The NS's apparent permanent ellipcitiy.

V818 Tau — *Brogaard, K. et al.* (24 authors) 2021, A&A 645, A25. (1ao, 2ao, 5cdeh) EB in the Hyades.

V928 Tau — *van Dam, D.M. et al.* (24 authors) 2020, AJ 160, 285. (1ai, 5i) A substellar companion eclipsing one component of the pre-main-sequence binary.

QU TrA (4U 1543−624) — *Koliopanos, F. et al.* (4 authors) 2021, MNRAS 500, 5603. (1x, 5cgi) Disappearance of the Fe Kα emission line.

KV UMa (XTE J1118+480) — *Debnath, D. et al.* (5 authors) 2020, RAA 20, 175. (2dx, 5ij) Accretion flow properties of the HMXB during the 2005 outburst.

HU Vel (Vela Pulsar) — *Montoli, A. et al.* (4 authors) 2020, A&A 642, A223. (9) Bayesian estimate of the superfluid moments of inertia from the 2016 glitch.

KQ Vel — *Schöller, M. et al.* (7 authors) 2020, A&A 642, A188. (1ao, 2dx, 4ci) The near-IR companion of the Bp star could be an F8V+F8V CB.

TW Vir — *Dai, Z., Szkody, P., Garnavich, P.M.* 2021, AJ 161, 34. (1ao, 5i) Dwarf nova Kepler LC modeling and disk behavior.

AK Vir — *Khaliullina, A.I.* 2021, ARep 65, 126. (5b) EB orbital period variation.

GK Vir — *Almeida, L.A. et al.* (6 authors) 2020, MNRAS, 497, 4022. (1ao, 5abf) A possible Jupiter-like planet in a circumbinary orbit.

UY Vol (EXO 0748−676) — *Parikh, A.S. et al.* (8 authors) 2021, MNRAS 501, 1453. (1ux, 5cgi) Accretion behavior.

AX Vul — *Khaliullina, A.I.* 2021, ARep 65, 126. (5b) EB orbital period variation.

CK Vul (Nova Vul 1670) — *Kamiński, T. et al.* (6 authors) 2021, A&A 646, A1. (4cr, 5j) A 3D view of the molecular remnant gas distribution and velocity field.

(Nova 1670) — *Kamiński, T. et al.* (8 authors) 2020, A&A 644, A59. (4cr) Properties and enigmatic origin of the molecular remnant gas.

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

HD 18163 (TYC 4700-815-1) — *Hernandez, M.S. et al.* (15 authors) 2021, MNRAS 501, 1677. (1aoi, 2abcx, 4a, 5cdeg, 6b) WD CB with a G-type secondary star.

HD 18378 — *Matthews, E.C. et al.* (11 authors) 2021, AJ 161, 78. (1a, 5i) Late-type stellar companion detected.

HD 19257B — *Matthews, E.C. et al.* (11 authors) 2021, AJ 161, 78. (1a, 5i) Late-type stellar companion detected.

HD 27130 — (see V818 Tau)

HD 40865 (GJ 225.1) — *Tokovinin, A.* 2020, AstL 46, 612. (4a) Quadruple system orbits and structure.

HD 41004 — *Narang, M. et al.* (9 authors) 2021, MNRAS 500, 4818. (1r, 5cg) Search for radio emission from exoplanets in the K1V+M2V binary.

HD 54236A — *Cunningham, J.M.C. et al.* (13 authors) 2020, AJ 160, 187. (2d, 5e) EB in a young triple system.

HD 58730 (KELT J072709+072007) — *Stevens, D.J. et al.* (24 authors) 2020, MNRAS 499, 3775. (1ao, 2ac, 5cdeg, 6b) Extreme-mass ratio, short-period EB.

HD 63021 — *Whelan, D.G. et al.* (16 authors) 2021, AJ 161, 67. (2ao, 5dkj) Chromospheric activity and mass transfer in the semidetached CB.

HD 69479/80	*Griffin, R.E., Griffin, R.F.* 2020, AN 341, 791. (1ao, 5degk) A 90-day SB2 with a cool-giant primary.
HD 70271	*Lloyd, Ch. et al.* (4 authotrs) 2020, OEJV 207. (1a, 2b) Bright EB is not a variable.
HD 74423	*Fuller, J. et al.* (4 authors) 2020, MNRAS, 498, 5730. (8a) Tidally trapped pulsations in the binary system.
HD 101584	(see V885 Cen)
HD 116546 (TYC 4962-1205-1)	*Hernandez, M.S. et al.* (15 authors) 2021, MNRAS 501, 1677. (1aoi, 2abcx, 4a, 5cdeg, 6b) WD CB with G-type secondary star.
HD 133778B	*Matthews, E.C. et al.* (11 authors) 2021, AJ 161, 78. (1a, 5i) Late-type stellar companion detected.
HD 152248	(see V1007 Sco)
HD 159062	*Bowler, B.P. et al.* (10 authors) 2021, AJ 161, 106. (2ao, 4ic, 5de) WD companion orbit updated.
HD 183656	(see V923 Aql)
HD 215227 (MWC 656)	*Staritsin, E.* 2021, A&A 646, A90. (8cd) B-star increasing spin during the common envelope stage. *Zamanov, R.K. et al.* (5 authors) 2021, AN 342, 531. (1ao*, 2ao, 5bek) Be star radius, rotational period and inclination in the Be/γ-ray binary.
HD 225524 (KIC 4851217)	*Liakos, A.* 2020, A&A 642, A91. (1ao*, 2abo, 5cde) Detached EB with a pulsating δ Scuti component.
HD 259440 (MWC 148)	*Zamanov, R.K. et al.* (5 authors) 2021, AN 342, 531. (1ao*, 2ao, 5bek) Be star radius, rotational period and inclination in the Be/γ-ray binary.
HD 336780 (FIN 332)	*Tokovinin, A.* 2020, AstL 46, 612. (4a) Quadruple system orbits and structure.
BD+38°3661 (KIC 3858884)	*Manzoori, D.* 2020, MNRAS, 498, 1871. (1ao, 5bcefk) PHOEBE analysis of the Kepler LC of this rare pulsating EB, including tidal oscillations.

Objects with names including RA and DEC

3XMM J004301.4+413017	*Pshirkov, M.S., Popov, S.B., Zolotukhin, I.Yu.* 2021, AstL 47, 12. (2dx, 6, 9) Search for magnetars in M31 as periodic X-ray sources.
IRAS 00500+6713	*Oskinova, L.M. et al.* (5 authors) 2020, A&A 644, L8. (1x, 2dx, 5i) Super-Chandrasekhar object reveals an ONe and a CO WD merger product embedded in a putative SN Iax remnant.
ASAS J011416+0426.4	*Yang, D.-Y., Li, L.-F., Han, Q.-W.* 2021, RAA 21, 22. (1ao, 2ao, 5abcde) Poorly studied detached EB.
2MASS J02454526+5259198 (TYC 3700-1384-1)	*Broens, E.* 2021, MNRAS 501, 4935. (1ao, 5abcegj) Photometric analysis and period study.
PSR J0437−4715	*Reardon, D.J. et al.* (20 authors) 2020, ApJ 904, 104. (1r, 5f) Orbital dynamics from interstellar scintillation.
1RXS J050526.3−684628	*Vasilopoulos, G. et al.* (6 authors) 2020, MNRAS, 499, 2007. (1aox, 2dx, 5i, 6bcd) Discovery of a ≈ 30-yr-duration post-nova pulsating supersoft source in the LMC.
4U 0520−72 (LMC X-2)	*Agrawal, V.K., Nandi, A.* 2020, MNRAS, 497, 3726. (2dx, 5i) AstroSat view: evolution of broad-band X-ray spectral properties along a complete Z-track.

1RXS J053855.5−640457 (LMC X-3)	*Bhuvana, G.R. et al.* (5 authors) 2021, MNRAS 501, 5457. (1x*, 5cegi) An AstroSat perspective.
2MASS J05393883−6944356 (LMC X-1)	*Bhuvana, G.R. et al.* (5 authors) 2021, MNRAS 501, 5457. (1x*, 5cegi) An AstroSat perspective. *Mudambi, S.P. et al.* (5 authors) 2020, MNRAS, 498, 4404. (1x, 2dx, 5ik) Estimation of the BH spin using AstroSat.
4U 0614+091	(see V1055 Ori)
ASASSN-V J063123.82+192341.9	*Yang, D.-Y., Li, L.-F., Han, Q.-W.* 2021, RAA 21, 22. (1ao, 2ao, 5abcde) Poorly studied detached EB.
MAXI J0637−430	*Tetarenko, B.E. et al.* (7 authors) 2021, MNRAS 501, 3406. (1oux, 2bc, 5cdgi) Geometry and structure of the irradiated AD.
2MASS J06415294−5547419 (TIC 278825952)	*Mitnyan, T. et al.* (5 authors) 2020, MNRAS 498, 6034. (1aio, 5bcdeh, 6b) Discovery of a triply eclipsing triple system using TESS, with outer orbit highly coplanar and surprisingly circular.
KELT J072709+072007	(see HD 58730)
PSR J0737−3039B	*Noutsos, A. et al.* (14 authors) 2020, A&A 643, A143. (4cr, 5j) Improved pulse timing.
PSR J0742−2822	*Dang, S.-J. et al.* (16 authors) 2021, RAA 21, 42. (1gr, 5b) The PSR spin-down and emission variations.
EXO 0748−676	(see UY Vol)
SGR 0755−2933	*Doroshenko, V. et al.* (4 authors) 2021, A&A 647, A165. (2bx) A new HMXB with the wrong name.
2MASS J08073948+1814382 (TYC 1380-957-1)	*Hernandez, M.S. et al.* (15 authors) 2021, MNRAS 501, 1677. (1aoi, 2abcx, 4a, 5cdeg, 6b) WD CB with G-type secondary star.
Swift J0820.6−2805	*Nucita, A.A. et al.* (4 authors) 2020, MNRAS, 498, 2688. (1oux, 2dx, 5bi) IP candidate.
SDSS J082239.54+304857.2	*Kosakowski, A., Kilic, M., Brown, W.* 2021, MNRAS 500, 5098. (1ior, 5abce) Multiband LC analysis.
1SWASP J084356.46−113327.5	*Hong, K. et al.* (8 authors) 2021, AJ 161, 137. (1ao, 2ao, 5bcde) EB with a pre-He WD companion.
WOCS J0850269+114831 (WOCS 11028)	*Sandquist, E.L. et al.* (11 authors) 2021, AJ 161, 59. (2d, 5e) Detached EB and turnoff star in the old open cluster M67.
NGTS J0930−18	*Acton, J.S. et al.* (23 authors) 2020, MNRAS, 498, 3115. (1ao, 2ao, 5abcde, 6bd) An eclipsing M-dwarf close to the hydrogen burning limit.
4FGL J0940.3−7610	*Swihart, S.J. et al.* (6 authors) 2021, ApJ 909, 185. (1gox, 2ao) A new redback millisecond PSR candidate.
PSR J1023+0038	(see AY Sex)
WD 1032+011	*Casewell, S.L. et al.* (14 authors) 2020, MNRAS, 497, 3571. (1ao, 2abcdoi, 5bcdeg, 6b) Third brown dwarf known to eclipse a non-accreting WD.
SDSS J103533.02+055158.3	*Schwope, A., Worpel, H., Traulsen, I.* (5 authors) 2021, A&A 646, A181. (1ux, 5j) Eclipsing CV with a degenerate donor.
XTE J1118+480	(see KV UMa)
2MASS J12123849+2638114 (LB 1)	*Safarzadeh, M., Ramirez-Ruiz, E., Kilpatrick, C.* 2020, ApJ 901, 116. (8c) System is inconsistent with the X-ray source population and PSR-BH binary searches in the Milky Way. *Shao, Y., Li, X.-D.* 2021, ApJ 908, 67. (8ad) Population synthesis of Galactic Be-He star binaries.

RX J121857.7+471558 (NGC 4258 X-3)	*Akyuz, A. et al.* (6 authors) 2020, MNRAS, 499, 2138. (1aox, 2dx, 5i, 6bcd) The ULX X-ray and optical properties.
PSR B1259−63	*Fujita, Y. et al.* (5 authors) 2020, PASJ 72, L9. (1r, 5ij) ALMA observations of the HMXB in an inactive period: variable circumstellar disk?
MAXI J1348−630	*Garcia, F. et al.* (6 authors) 2021, MNRAS 501, 3173. (1x, 5cgij) A two-component Comptonization model. *Zhang, J. et al.* (19 authors) 2020, MNRAS, 499, 851. (1x, 2x, 5i) NICER observations reveal that this X-ray transient is a BH XB.
FIRST J141918.9+394036	*Lee, K.H. et al.* (5 authors) 2020, ApJL 902, L23. (1r) Radio flare from binary NS merger.
SDSS J143547.87+373338.5	*Wolf, M. et al.* (7 authors) 2021, A&A 647, A65. (1a, 5b) Possible sub-stellar companion in the dwarf EB.
PSR B1534+12	*Wang, S.Q. et al.* (13 authors) 2020, ApJL 902, L13. (1r) Observed in two emission states.
MAXI J1535−571	*Russell, T.D. et al.* (26 authors) 2020, MNRAS, 498, 5772. (1imorx, 3ar, 5ij) Six epochs quasi-simultaneous multi-frequency study of the BH binary show rapid compact jet quenching.
4U 1543−624	(see QU TrA)
2XMM J160050.7−514245 (Apep Plume)	*Han, Y. et al.* (9 authors) 2020, MNRAS, 498, 5604. (1i, 2d, 4ab, 5j) Resolved IR imagery of the central binary and dust plume of the extreme colliding-wind system.
4U 1608−52	(see QX Nor)
4U 1630−47	*Connors, M.T. et al.* (14 authors) 2021, ApJ 909, 146. (2dx*, 5i) Reflection modeling of the BH binary.
MAXI J1631−472	*Monageng, I.M. et al.* (8 authors) 2021, MNRAS 501, 5776. (1x, 4cr, 5cg) Radio flaring and dual radio loud/quiet behavior in the BH XB candidate.
4U 1636−536	(see V801 Ara)
PSR J1641+3627F	*Cadelano, M. et al.* (8 authors) 2020, ApJ 905, 63. (1aou, 2dox, 5be, 6b) A detached WD+NS EB in M13.
XTE J1650−500	*Chatterjee, A. et al.* (4 authors) 2020, MNRAS, 497, 4222. (1x, 5i) Evidence of disc-jet connection from the analysis of time-domain variability properties during the 2001 outburst.
MAXI J1659−152	*Torres, M.A.P. et al.* (5 authors) 2021, MNRAS 501, 2174. (1o*, 2a, 5cdegi) Delimiting the BH mass with Hα spectroscopy.
4U 1700−37	(see V884 Sco)
IGR J17091−3624	*Katoch, T. et al.* (6 authors) 2021, MNRAS 501, 6123. (1x, 5cgi) Decoding the pulse in the heartbeat state.
SAX J1712.6−3739	*Lin, J., Yu, W.* 2020, ApJ 903, 37. (1x) LMXB 4 thermonuclear bursts.
GRS 1716−249	(see V2293 Oph)
4U 1728−34	*Wang, D.-H., Zhang, C.-M.* 2020, MNRAS, 497, 2893. (1x, 5ij) Disc and radial accretion in the LMXB.
XTE J1739−285	*Bult, P. et al.* (13 authors) 2021, ApJ 907, 79. (1x) LMXB X-ray bursts.
GRO J1744−28	*Doroshenko, V. et al.* (5 authors) 2020, A&A 643, A62. (2dx, 5i) The bursting PSR in quiescence. *Köbig, O. et al.* (11 authors) 2020, A&A 643, A128. (2cdx, 5i) NuSTAR observations at low mass accretion rate.
IGR J17494−3030	*Ng, M. et al.* (14 authors) ApJL 908, L15. (1x, 2x) Discovery of millisecond X-Ray pulsations and an ultracompact orbit.

XTE J1752−223	*Zdziarski, A. et al.* (5 authors) 2021, ApJ 906, 69. (2dx, 5i) The AD in the hard state.
Swift J1756.9−2508	*Koliopanos, F. et al.* (4 authors) 2021, MNRAS 500, 5603. (1x, 5cgi) Disappearance of the Fe Kα emission line.
IGR J18027−2016	*Fogantini, F.A. et al.* (4 authors) 2021, A&A 647, A75. (1x, 5i) EB stellar wind structures.
1RXS J180408.9−342058	*Tse, K. et al.* (5 authors) 2021, MNRAS 500, 34. (1x, 5bcg) Detection of mHz QPOs.
HESS J1804−216	*Feijen, K. et al.* 2020, PASA 37, e056. (1r, 2cr) The interstellar gas towards the still unidentified TeV γ-ray source.
MAXI J1807+132	*Albayati, A.C. et al.* (16 authors) 2021, MNRAS 501, 261. (1x, 5cg) Discovery of thermonuclear Type-I X-ray bursts.
SAX J1808−3658	(see V4580 Sgr)
PSR J1810+1744	*Romani, R.W. et al.* (5 authors) 2021, ApJL 908, L46. (2aiou, 5de) Companion darkening and a high NS mass.
4U 1812−12	*Armas Padilla, M. et al.* (9 authors) 2020, A&A 644, A63. (1ao, 2cdo, 5ij) Ultra-compact XB seen through an H II region.
MAXI J1820+070 (ASASSN-18ey)	*Chakraborty, S. et al.* (4 authors) 2020, MNRAS, 498, 5873. (1x, 2dx, 5hi) BH binary AstroSat and NuSTAR study. *Shaw, A.W. et al.* (11 authors) 2021, ApJ 907, 34. (1rxx*, 2rxx*) Disk-jet coupling during descent to quiescence. *Zdziarski, A.A. et al.* (5 authors) 2021, ApJL 909, L9. (2x) Accretion geometry in the hard state.
IGR J18214−1318	*Cusumano, G. et al.* (4 authors) 2020, MNRAS, 498, 2750. (1x, 2dx, 5ij) Swift unveils the HMXB orbital period.
MAXI J1836−194	*Lucchini, M. et al.* (7 authors) 2021, MNRAS 501, 5910. (1rx, 5cgij) Correlating spectral and timing properties in the evolving jet.
Swift J1858.6−0814	*Buisson, D.J.K. et al.* (14 authors) 2020, MNRAS, 498, 68. (1x, 2ac, 5ij) X-ray emission lines as clues for disc atmosphere or wind. *Buisson, D.J.K. et al.* (25 authors) 2020, MNRAS, 499, 793. (1x, 5i) Discovery of thermonuclear (Type I) X-ray bursts in the LMXB.
4U 1901+03	*Beri, A. et al.* (4 authors) 2021, MNRAS 500, 1350. (1x, 5cgi) Evolution of timing and spectral characteristics.
4U 1909+07	*Jaisawal, G.K. et al.* (6 authors) 2020, MNRAS, 498, 4830. (1x, 2dx, 5ij) Spectral and timing study of the HMXB using NuSTAR and Astrosat.
PSR J1909−3744	*Liu, K. et al.* (13 authors) 2020, MNRAS, 499, 2276. (1r, 5beg, 8acd) Timing analysis and an astrophysical study of the binary millisecond PSR.
2MASS J19135355+4222482 (KIC 6852488)	*Shi, X.-D. et al.* (4 authors) 2021, AJ 161, 46. (1ao, 5bc) Flaring and spot activity on the semidetached binary.
GRS 1915+105	(see V1487 Aql)
XB 1916−053	(see V1405 Aql)
2MASS J19245582+5704084 (CzeV1731)	*Zasche, P. et al.* (17 authors) 2020, A&A 642, A63. (1ao*, 2ao, 5cd) Unique doubly eclipsing quadruple system.
2MASS J19311995+3756133 (KIC 2719436)	*Zhang, J., Qian, S.B., Lyu, B.* 2020, PASP 132, 114201. (1a, 2a, 5cde) Low-mass-ratio semidetached binary.
2MASS J19312915+4559061 (KIC 9406652)	*Kimura, M., Osaki, Y., Kato, T.* 2020, PASJ 72, 94. (1ao, 5fij, 8a) A CV tilted disk laboratory.

2MASS J19404263+4017085 (KIC 5111815)	*Soydugan, E. et al.* (4 authors) 2020, AJ, 160, 245. (1ao, 2ao, 5cde) EB in the NGC 6819 open cluster.
2MASS J19413767+4014326 (KIC 5113146)	*Soydugan, E. et al.* (4 authors) 2020, AJ, 160, 245. (1ao, 2ao, 5cde) EB in the NGC 6819 open cluster.
4U 1954+31	*Hinkle, K.H. et al.* (8 authors) 2020, ApJ 904, 143. (2cd, 5e) HMXB rather than a LMXB.
2MASS J19542217+4641258 (KIC 9850387)	*Sekaran, S. et al.* (12 authors) 2020, A&A 643, A162. (1co*, 2aco, 5cdegk) Detached EB with a g-mode pulsating component.
2MASS J19561361+4754336 (KIC 10686876)	*Liakos, A.* 2020, A&A 642, A91. (1ao*, 2abo, 5cde) Detached EB with a pulsating δ Scuti component.
MASTER OT J213908.79+161240.2 (AT 2020ugj)	*Goranskij, V. et al.* (7 authors) 2020, PZ 40, No. 12. (1a) High-amplitude optical transient.
PSR J2215+5135	*Voisin, G. et al.* (5 authors) 2020, MNRAS, 499, 1758. (1ao, 5g, 8a) Model for redistributing heat over the surface of irradiated spider companions.
2MASS J224050.50+484404.2	*Wang, J.-H. et al.* (5 authors) 2021, ChAA 45, 67. (1ao, 2abo, 5abcdeg, 6bd) Magnetically active binary discovered in the Yunnan-Hong Kong Wide Field Survey.
ZTF J2243+5242	*Burdge, K.B. et al.* (16 authors) 2020, ApJL 905, L7. (1ao, 5e) An 8.8-minute period eclipsing double WD binary.
MASTER OT J224524.92+211742.0 (AT 2020ray)	*Goranskij, V. et al.* (7 authors) 2020, PZ 40, No. 12. (1a, 2c) High-amplitude optical transient.
PSR J2339−0533	*Kandel, D. et al.* (5 authors) 2020, ApJ 903, 39. (1aoi, 2diou, 5cde) Hot spots and likely magnetic poles on the redback companion.

X-ray sources with constellation or galaxy names

Cen X-3	(see V779 Cen)
Cyg X-1	(see V1357 Cyg)
Cyg X-2	(see V1341 Cyg)
Cyg X-3	(see V5121 Cyg)
Her X-1	(see HZ Her)
LMC X-1	(see 2MASS J05393883−6944356)
LMC X-2	(see 4U 0520−72)
LMC X-3	(see 1RXS J053855.5−640457)
M51 ULX-7	*Hu, C.-P., Ueda, Y., Enoto, T.* 2021, ApJ 909, 5. (2dx) Periodic X-ray dips in the pulsating ULX. *Vasilopoulos, G. et al.* (7 authors) 2021, ApJ 909, 50. (2dx) Evidence of propeller transition and X-ray dips modulated with orbital period.
NGC 4258 X-3	(see RX J121857.7+471558)
Sco X-1	(see V818 Sco)
47 Tuc W	*Hebbar, P.R. et al.* (5 authors) 2021, MNRAS 500, 1139. (1x*, 5cgi, 8a) Vanishing orbital X-ray variability of the EB millisecond PSR.

Objects with other designations

ADS 48 — *Kiyaeva, O.V., Zhuchkov, R.Ya., Izmailov, I.S.* 2020, AstBu 75, 425. (4a) Relative motion in the hierarchical triple based on Gaia DR2 and 26-inch Refractor of Pulkovo Observatory data.

Apep Plume — (see 2XMM J160050.7−514245)

ASASSN-18ey — (see MAXI J1820+070)

ASASSN-18fv — (see V906 Car)

AT 2020iko — *Soraisam, M.D. et al.* (14 authors) 2021, AJ 161, 15. (1ao, 2od, 6b) WZ Sge-type dwarf nova candidate with an anomalous precursor event.

AT 2020ray — (see MASTER OT J224524.92+211742.0)

AT 2020ugj — (see MASTER OT J213908.79+161240.2)

CDF-S XT2 — *Lü, H.-J. et al.* (6 authors) 2021, RAA 21, 47. (8a) The X-ray transient electromagnetic and gravitational-wave radiation.

CzeV1731 — (see 2MASS J19245582+5704084)

EPIC 216747137 — *Silvotti, R. et al.* (11 authors) 2021, MNRAS 500, 2461. (1ao, 5bcegk) Photometric study and system parameters.

ETHOS 1 (PN G068.1+11.0) — *Munday, J. et al.* (10 authors) 2020, MNRAS, 498, 6005. (1o, 2ac, 5bcde) PN central binary.

EVR-CB-004 — *Ratzloff, J.K. et al.* (13 authors) 2020, ApJ 902, 92. (5b, 6b) Hot O subdwarf + unseen WD companion discovered with Evryscope.

FIN 332 — (see HD 336780)

Gaia18aen — *Merc, J. et al.* (23 authors) 2020, A&A 644, A49. (1ao, 2ciou, 5g) First symbiotic star discovered by Gaia.

GJ 225.1 — (see HD 40865)

GSC 07418-01521 — *Khruslov, A.V.* 2020, PZ 40, No. 13. (1a, 5b, 6b) δ Scuti pulsator with an eclipsing companion.

GSC 08977-08895 — *Khruslov, A.V.* 2020, PZ 40, No. 13. (1a, 5b, 6b) Doubly eclipsing system.

GW170817 (AT 2017gfo) — *Murguia-Berthier, A. et al.* (6 authors) 2021, ApJ 908, 152. (8) The lifetime of the merger remnant and its imprint on the jet.
Nakar, E., Piran, T. 2021, ApJ 909, 114. (1*iorx) Afterglow constraints on the viewing angle of binary NS mergers.
Nathanail, A., Most, E.R., Rezzolla, L. 2021, ApJ 908, L28. (8) Maximum mass discussion.
Nedora, V. et al. (10 authors) 2021, ApJ 906, 98. (4c, 8) Numerical relativity simulations of the NS merger.
Salafia, O.S., Giacomazzo, B. 2021, A&A 645, A93. (8b) Accretion-to-jet energy conversion efficiency.
Troja, E. et al. (10 authors) 2020, MNRAS, 498, 5643. (1xr, 5j, 8bd) Continued X-ray emission a thousand days after the merger.
Wang, H., Giannios, D. 2021, ApJ 908, 200. (8) Multimessenger parameter estimation: jet structure and Hubble constant.

GW190521 — *Gayathri, V. et al.* (10 authors) 2021, ApJL 908, L34. (8) Measuring the Hubble constant.
Belczynski, K. 2020, ApJL 905, L15. (1x, 2x) Formation of the BH-BH merger.
Nitz, A.H., Capano, C.D. 2021, ApJL 907, L9. (8) May be an intermediate-mass-ratio inspiral.

	Rice, J.R., Zhang, B. 2021, ApJ 908, 59. (8bd) Growth of the stellar-mass BH in dense molecular clouds.
	Romero-Shaw, I. et al. (4 authors) 2020, ApJL 903, L5. (5f) Likely eccentric orbit, dynamic formation in the binary BH merger.
GW190814	*Arca Sedda, M.* 2021, ApJL 908, L38. (8) Dynamical formation of the merger.
	Godzieba, D.A., Radice, D., Bernuzzi, S. 2021, ApJ 908, 122. (8) NS maximum mass.
	Nathanail, A., Most, E.R., Rezzolla, L. 2021, ApJ 908, L28. (8) Maximum mass discussion.
	Olejak, A. et al. (7 authors) 2020, ApJL 901, L39. (8cd) Evolutionary channels for BH mergers with unequal masses.
	Roupas, Z. 2021, Ap&SS 366, 9. (8a) The secondary component as an anisotropic NS.
	Tews, I. et al. (8 authors) 2021, ApJL 908, L1. (8) Nature of the GW source and its impact on the understanding of supranuclear matter.
	Tsokaros, A., Ruiz, A., Shapiro, S.L. 2020, ApJL 905, 48. (5e, 8ac) Spin and equation of state of the NS companion.
	Vasylyev, S.S., Filippenko, A.V. 2020, ApJ 902, 149. (8cd) The Hubble constant from gravity waves.
GX 13+1	(see V5512 Sgr)
GX 17+2	(see NP Ser)
GX 301-2	(see BP Cru)
GX 339-4	(see V821 Ara)
HIP 11352	*Al-Tawalbeh, Y.M. et al* (10 authors) 2021, AstBu 76, 71. (4a, 5e). Precise masses, ages, and orbital parameters.
HIP 18856	*Efremova, P. et al.* (8 authors) 2021, RAA 21, 58. (4aco, 5e) Binary.
HIP 70973	*Al-Tawalbeh, Y.M. et al* (10 authors) 2021, AstBu 76, 71. (4a, 5e). Precise masses, ages, and orbital parameters.
HIP 72479	*Al-Tawalbeh, Y.M. et al* (10 authors) 2021, AstBu 76, 71. (4a, 5e). Precise masses, ages, and orbital parameters.
KIC 2719436	(see 2MASS J19311995+3756133)
KIC 3858884	(see BD+38°3661)
KIC 4245897	(see V583 Lyr)
KIC 4851217	(see HD 225524)
KIC 5111815	(see 2MASS J19404263+4017085)
KIC 5113146	(see 2MASS J19413767+4014326)
KIC 6852488	(see 2MASS J19135355+4222482)
KIC 9406652	(see 2MASS J19312915+4559061)
KIC 9850387	(see 2MASS J19542217+4641258)
KIC 10686876	(see 2MASS J19561361+4754336)
LB 1	(see 2MASS J12123849+2638114)
LS I +61°303	(see V615 Cas)
LVC S200224ca	*Klingler, N.J. et al.* (44 authors) 2021, ApJ 907, 97. Multiwavelength follow-up and implications for binary BH mergers.
MWC 148	(see HD 259440)
MWC 656	(see HD 215227)

Nova 1670	(see CK Vul)
Nova Vul 1670	(see CK Vul)
NSV 16624	*Arkhipova, V.P. et al.* (4 authors) 2020, AstL 46, 601. (1a, 2a, 5) The PN H 3-75 binary central star.
NSVS 7826147	(see DD CrB)
NSVS 14256825	(see V1828 Aql)
PN G068.1+11.0	(see ETHOS 1)
PN G283.7-05.1	*Jones, D. et al.* (11 authors) 2020, A&A 642, A108. (1aio, 2aco, 5cd) A PN post-common-envelope binary central star.
S190510g	*Garcia, A. et al.* (93 authors) 2020, ApJ 903, 75. (1ao) Search for the optical counterpart of the LIGO/Virgo GW binary NS merger candidate.
TIC 63328020	*Fuller, J. et al.* (4 authors) 2020, MNRAS, 498, 5730. (8a) Tidally trapped pulsations in the binary system.
TIC 278825952	(see 2MASS J06415294−5547419)
TYC 1380-957-1	(see 2MASS J08073948+1814382)
TYC 3700-1384-1	(see 2MASS J02454526+5259198)
TYC 4700-815-1	(see HD 18163)
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Editor-in-Chief: W. Van Hamme

Department of Physics
Florida International University
Miami, FL 33199, U.S.A.

Phone: +1 305 348-3670
Fax: +1 305 348-6700
vanhamme@fiu.edu