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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
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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

R Aqr	*Toalá, J.A. et al.* (5 authors) 2022, ApJL 927, L20. (1x*) X-ray view of the symbiotic star.
AE Aqr	*Ramírez, S.H., Echevarría, J.* 2021, MNRAS 508, 665. (2ao, 5d) Evidence of material orbiting the primary star of the CV.
V1333 Aql (Aql X-1)	*Güver, T. et al.* (11 authors) 2022, MNRAS 510, 1577. (1x, 5cgi) Spectral and temporal properties of all the thermonuclear X-ray bursts. *Li, Z., Pan, Y., Falanga, M.* 2021, ApJ 920, 35. (1x, 2x) Transition from marginally stable to unstable burning. *Lipunova, G. et al.* (6 authors) 2022, MNRAS 510, 1837. (1x, 5cgij, 8a) Physical modelling of viscous disc evolution.
V1432 Aql	*Wang, Q.-S., Qian, S.-B., Zhu, L.-Y.* 2021, RAA 21, 315. (2dx, 5acgij) Revisiting the X-ray emission of the asynchronous polar.
V1487 Aql (GRS 1915+105)	*Orwat-Kapola, J.K. et al.* (5 authors) 2022, MNRAS 509, 1269. (7cd) An automated approach to the extraction of X-ray variability patterns with feature aggregation. *Ratheesh, A. et al.* (6 authors) 2021, A&A 655, A96. (2dx, 5i) Accretion-ejection geometry in the HMXB obscured state with future X-ray spectro-polarimetry.
V801 Ara (4U 1636−536)	*Fei, Z. et al.* (8 authors) 2021, ApJ 922, 119. (1x) Harmonic component of the LMXB mHz QPOs. *Kashyap, U. et al.* (4 authors) 2022, MNRAS 509, 3989. (1x, 5cgi) Broad-band time-resolved spectroscopy. *Roy, P., Beri, A., Bhattacharyya, S.* 2021, MNRAS 508, 2123. (1x, 5i) Thermonuclear X-ray bursts in the NS XB.
V821 Ara (GX 339-4)	*Husain, N., Misra, R., Sen, S.* 2022, MNRAS 510, 4040. (1x, 5cgi) Detection of low-frequency breaks in power density spectrum. *Kantzas, D. et al.* (7 authors) 2022, MNRAS 510, 5187. (1g, 5cgi) LMXBs as Galactic cosmic ray accelerators. *Semena, A.N. et al.* (4 authors) 2021, AstL 47, 856. (1ai*o*, 2dx*, 5ij) Is the hot-flow precession model consistent with LMXB IR variability? *Shui, Q.C. et al.* (13 authors) 2021, MNRAS 508, 287. (2dx, 5i) State transitions and QPOs during the HMXB outburst rising phase.
ϵ Aur	*Ignace, R. et al.* (4 authors), 2021, AJ 162, 105. (1a, 3a) Modeling the variable polarization.
V410 Aur	*Liao, W.-P. et al.* (8 authors) 2022, ApJ 927, 183. (1o, 2o, 5abcde) An SB1 companion to a contact binary in a quintuple system.
AS Cam	*Kozyreva, V.S. et al.* (4 authors) 2021, AstBu 76, 424 (1ao*, 5abcf). Pulsations of the EB in TESS LCs.
BL Cam	*Peña, J.H. et al.* (5 authors) 2021, RMxAA 57, 419. (1ao, 5abh) The SX Phe star is a binary.
ZZ CMi	*Zamanov, R.K. et al.* (12 authors) 2021, AN 342, 952. (1ao, 2co, 5ij) Intranight variability and suggested outburst nature of the symbiotic.
BU CMi	*Volkov, I.M., Kravtsova, A.S., Chochol, D.* 2021, ARep 65, 826 (1ao, 2ao, 5abcdef). Quadruple doubly eclipsing system.
η Car	*Martí-Devesa, G., Reimer, O.* 2021, A&A 654, A44. (2dg) Two full orbits and the third periastron observed with *Fermi*-LAT.

HR Car	*Mehner, A. et al.* (10 authors) 2021, A&A 655, A33. (2dio, 5j) The environment of the luminous blue variable and possible binarity.
V429 Car (WR 22)	*Lenoir-Graig, G. et al.* (5 authors) 2022 MNRAS 510, 246. (1ao, 2a, 5cdeg) The nature of the single eclipse.
V1037 Cas (IGR J00291+5934)	*Glampedakis, K., Suvarov, A.G.* 2021, MNRAS 508, 2399. (8ab) Modelling spin-up episodes in the accreting millisecond X-ray PSR.
b Cen	*Janson, M. et al.* (28 authors) 2021, Natur 600, 231. A wide-orbit giant planet in the high-mass binary system.
V606 Cen	*Li, F.-X. et al.* (6 authors) 2021, ApJ 924, 30. (1o, 5ad) A newly formed massive contact binary in a hierarchical triple system.
V779 Cen (Cen X-3)	*Thalhammer, P. et al.* (13 authors) 2021, A&A 656, A105. (2dx, 5i) Accretion column models in the HMXB.
V1025 Cen	*Littlefield, C.* (8 authors) 2022, ApJL 924, L8. (1o) Rapid bursts of magnetically gated accretion in the IP.
γ Cep	*Jordan, L.M. et al.* (4 authors) 2021, A&A 654, A54. (8bd) Modeling disks in CBs.
V490 Cep (Cep X-4)	*Mukerjee, K., Antia, H.M.* 2021, ApJ 920, 139. (2dxi, 5ij) The HMXB 2018 outburst.
V961 Cep	*Volkov, I.* 2022, PZ 42, No. 1 (1ao, 5c). A new EB with a δ Sct component.
BO Cet	*Kato, T. et al.* (16 authors) 2021, PASJ 73, 1280. (1ao, 5ij) Dwarf nova showing both IW And-type and SU UMa-type features.
CC Cet	*Wilson, D.J. et al.* (7 authors) 2021, MNRAS 508, 561. (1ao, 2cdoux, 5cegk) Young pre-IP.
AQ Col (EC 05217−3914)	*Otani, T et al.* (9 authors) 2022, ApJ 926, 17. (1ao, 2ao) Hot sdB in a wide binary may be a CB formed with an unseen WD or NS companion.
V691 CrA (4U 1822−371)	*Anitra, A. et al.* (9 authors) 2021, A&A 654, A160. (2dx, 5i, 8a) Low-mass X-ray PSR reflection in a high-inclination system.
TV Crt (HD 98800)	*Zúñiga-Fernández, S. et al.* (11 authors) 2021, A&A 655, A15. (2ao, 4ci, 5d) Quadruple pre-main sequence system composed of two SBs.
SS Cyg	*Kimura, M. et al.* (23 authors) 2021, PASJ 73, 1262. (1aox, 2dx, 5ij) Dwarf nova anomalous event in 2021 and its multi-wavelength transition. *Takeo, M. et al.* (5 authors) 2021, PASJ 73, 1418. (2cdx) Spatial distribution of the X-ray-emitting plasma in quiescence and outburst.
BR Cyg	*Roobiat, K.Y., Pazhouhesh, R.* 2022, RAA 22, 025013. (1ao, 2ao, 5abcde) LC analysis and period study of the EB.
V404 Cyg	*Harvey, M., Rulten, C.B., Chadwick, P.M.* 2021, MNRAS 506, 6029. (1g) LMXB γ-ray excess due to contamination from a nearby blazar. *Xing, Y., Wang, Z.* 2020, ApJ 922, 111. (2g) Identified as a microquasar.
V456 Cyg	*Van Reeth, T. et al.* (4 authors) 2022, A&A 659, A177. (1ao, 5c) EB with tidally perturbed g-mode pulsations.
V1130 Cyg	*Yoldaş, E., Dal, H.A.* 2021, RMxAA 57, 335. (1ao*, 2ao*, 5abcdeg) Active EB.
V1341 Cyg (Cyg X-2)	*Galaudage, S. et al.* (4 authors) 2022 MNRAS 509, 1745. (1x, 5cgi) Deep searches for X-ray pulsations. *Ludlam, R.M. et al.* (11 authors) 2022, ApJ 927, 112. (2dx, 5i) Radius constraints from reflection modeling with NuSTAR and NICER.
V1357 Cyg (Cyg X-1)	*Kushwaha, A., Agrawal, V.K., Nandi, A.* 2021, MNRAS 507, 2602. (2dx, 5i) AstroSat and MAXI view of the HMXB's extreme soft nature.

	Qin, Y. et al. (4 authors) 2022, RAA 22, 035023. (8acdx, 5i) Hypercritical accretion for BH high spin.
	Yan, Z., Rapisarda, S., Yu, W. 2021, ApJ 919, 46. (1ax, 5i) Low-frequency QPO in the HMXB soft state.
V1500 Cyg	*Wang, Q., Qian, S., Liao, W.* 2021, PASP 133, 114201. (1a, 5c) Photometric analysis of the asynchronous polar's TESS LC.
V1521 Cyg (Cyg X-3)	*Shaw, G., Bhattacharyya, S.* 2021, MNRAS 507, 1441. (5j) HMXB spectroscopic modelling.
V2891 Cyg	*Kumar, V. et al.* (9 authors) 2022 MNRAS 510, 4265. (1ao, 2bc, 5cdeg) Evidence for shock-induced dust formation.
α Dra	*Pavlovski, K. et al.* (16 authors) 2022, A&A 658, A92. (2ao, 4bo, 5e) Dynamical parallax, physical parameters, and evolutionary status of the components of the bright EB.
RR Dra	*Wang, Z.-H., Zhu, L.-Y.* 2021, MNRAS 507, 2804. (1ao*, 5abc) Algol EB with a possible tertiary BH companion.
TZ Dra	*Kahraman Aliçavuş, F.K. et al.* (9 authors) 2022 MNRAS 510, 1413. (1ao, 2ab, 5abcdegi) Algol with δ Sct component.
KT Eri	*Pei, S. et al.* (4 authors) 2021, MNRAS 507, 2073. (2cdx, 5ij) Chandra observations of the nova in outburst.
DI Her	*Liang, Y., Winn, J.N., Albrecht, S.H.* 2022, ApJ 927, 114. (1ao*, 2o, 5bcdefk) Starspots, gravity darkening, and 3d obliquities.
HZ Her (Her X-1)	*Shakura, N.I., Kolesnikov, D.A., Postnov, K.A.* 2021, ARep 65, 1039 (1x, 5i) The LMXB 35-day cycle.
	Wang, Y., Leahy, D. 2022, ApJ 927, 143. (1x, 2dx, 5i) Orbital LC evolution with a 35 day phase.
V948 Her	*Aliçavuş, F.K., Ekinci, Ö* 2022, RAA 22, 015013. (1ao, 5acdeg) Analysis of the TESS field EB: a pulsating or nonpulsating star?
V990 Her	*Kiran, E. et al.* (4 authors) 2021, RMxAA 57, 363. (1ao, 2ao, 5abcdef) Eccentric EB.
V1460 Her	*Pelisoli, I. et al.* (18 authors) 2021, MNRAS 507, 6132. (1ao, 5k) Optical detection of the rapidly spinning WD component.
YY Hya	*Kimeswenger, S. et al.* (10 authors) 2021, A&A 656, A145. (1aiou, 2ao, 5cd, 6b) Compact CB consisting of a K dwarf and a hot WD companion.
HS Hya	*Davenport, J.R.A. et al.* (6 authors) 2021, AJ 162, 189. (1a, 5cd) Precessing or inclination-changing EB.
	Vokrouhlický, D., Zasche, P. 2022, AJ 163, 94. (1a, 2a, 5cde) Triple system.
NW Leo	*Zhang, X.-D. et al.* (6 authors) 2022, RAA 22, 025011. (1ao, 5abcgj) Contact binary evolutionary stage.
YZ LMi	*Baptista, R., Schlindwein, W.* 2022, AJ 163, 108. (8b) The dwarf nova disk instability model.
RR Lyn	*Southworth, J.* 2021, Obs 141, 282. (1ao*, 2ao*, 5cde) EB shows δ Sct, γ Dor and tidally perturbed pulsations.
SU Lyn	*Ilkiewicz, K. et al.* (6 authors) 2022 MNRAS 510, 2707. (1ox, 2abc, 5cdegi, 8c) A transient symbiotic star.
UV Lyn	*Wang, J.-J., Zhang, B., Jiang, L.-Q.* 2022, RAA 22, 025005. (2ao, 5abc) An equatorial spot on the G-type contact binary.

UZ Lyr	*Roobiat, K.Y., Pazhouhesh, R.* 2022, RAA 22, 025013. (1ao, 2ao, 5abcde) EB LC analysis and period study.
V461 Lyr	*Yoldaş, E., Dal, H.A.* 2021, RMxAA 57, 335. (1ao*, 2ao*, 5abcdeg) Active EB.
V520 Lyr (KIC 2437060)	*Çakirli, Ö., Hoyman, B.* 2022, MNRAS 509, 5511. (1ao, 2ab, 5abcdeg) EB in the open cluster NGC 6791.
V565 Lyr (KIC 2437149)	*Çakirli, Ö., Hoyman, B.* 2022, MNRAS 509, 5511. (1ao, 2ab, 5abcdeg) EB in the open cluster NGC 6791.
V616 Mon (1A 0620−00)	*Sazhina, O.S., Bulygin, I.I., Cherepashchuk, A.M.* 2021, ARep 65, 839. (1ao*, 9). Nova spectral characteristics and flicker statistical properties. *Zheng, W.-M. et al.* (18 authors) 2022, ApJ 925, 83. (1iou, 2aciou, 5dik) The disk veiling effect of the BH LMXB.
V694 Mon (MWC 560)	*Ando, K. et al.* (5 authors) 2021, PASJ 73, L37. (1ao, 2cdo, 5ij) Symbiotic star in the mass accumulation phase.
V838 Mon	*Kamiński, T. et al.* (9 authors) 2021, A&A 655, A32. (2co, 4cr, 5g) Binary merger remnant in a triple system viewed by ALMA. *Zain Mobeen, M. et al.* (5 authors) 2021, A&A 655, A100. (2ci) The mid-IR environment of the stellar merger remnant.
θ Mus	*Lenoir-Craig, G. et al.* (4 authors) 2021, MNRAS 506, 4465. (1ao, 5c) Multiple system includes the WC5/6 + O6/7V binary WR 48.
IM Nor	*Patterson, J. et al.* (21 authors) 2021, ApJ 924, 27. (1o, 5ad) Recurrent nova in a CV death spiral.
QV Nor (4U 1538−522)	*Shaw, G., Bhattacharyya, S.* 2021, MNRAS 507, 1441. (5j) HMXB spectroscopic modelling.
RS Oph	*Montez Jr., R. et al.* (5 auhors) 2022, ApJ 926, 100. (1x, 2x) Expanding bipolar X-ray structure after the 2006 recurrent nova eruption.
V2400 Oph	*Langford, A. et al.* (6 authors) 2022, AJ 163, 4. (1a, 5b) K2 observation of the IP CV.
V1311 Ori	*Tokovinin, A.* 2022, AJ 163, 127. (1a, 4c) Young sextuple system or a minicluster.
V1363 Ori	*Yang, Y.-G. et al.* (4 authors) 2021, RAA 21, 290. (1ao, 5abc) Deep, low-mass-ratio overcontact binary.
V1878 Ori	*Hahlin, A., Kochukhov, O.* 2022, A&A 659, A151. (2ci, 5g) Small-scale magnetic fields of the SB T Tauri star.
κ Peg (HIP 107354)	*Beskakotov, A.S. et al.* (6 authors) 2021, AstBu 76, 490. (4ac, 7a). IR speckle observations at the 6-m telescope.
RU Peg	*Šimon, V.* 2022 MNRAS 510, 3430. (1ao*, 5cgij) Activity with rapidly changing outburst types.
GK Per	*Álvarez-Hernández, A. et al.* (18 authors) 2021, MNRAS 507, 5805. (1ao, 2abo, 5cde) Dynamical mass of the IP CV.
V505 Per	*Southworth, J.* 2021, Obs 141, 234. (1ao*, 2ao*, 5cde) F-type EB.
PU Pup	*Erdem, A. et al.* (5 authors) 2021, RAA 21, 256. (1ao, 2abco, 5abcde) Young stellar system.
V510 Pup (IRAS 08005−2356)	*Manick, R. et al.* (8 authors) 2021, MNRAS 508, 2226. (1ai, 2aoi, 5cde) The bipolar pre-PN central star is a binary.
V3890 Sgr	*Ness, J.-U. et al.* (12 authors) 2022, A&A 658, A169. (1bx, 5i) The super-soft source phase of the recurrent nova.

V4046 Sgr	*Hahlin, A., Kochukhov, O.* 2022, A&A 659, A151. (2ci, 5g) Small-scale magnetic fields of the SB T Tauri star.
V4580 Sgr (SAX J1808.4−3658)	*Glampedakis, K., Suvarov, A.G.* 2021, MNRAS 508, 2399. (8ab) Modelling spin-up episodes in the accreting millisecond X-ray PSR.
V5511 Sgr (XTE J1814−338)	*Cavecchi, Y., Patruno, A.* 2022, MNRAS 510, 1431. (1x, 5cgi, 8ac) Burst oscillations peculiar behaviour.
V5856 Sgr (ASASSN-16ma)	*Li, K.-L.* 2022, ApJL 924, L17. (1g*) Classical nova γ-ray pulsations.
V818 Sco (Sco X-1)	*Chandra, A.D. et al.* (4 authors) 2022, MNRAS 509, 1745. (1x, 5cgi) Deep X-ray pulsation searches. *Cherepashchuk, A.M., Khruzina, T.S., Bogomazov, A.I.* 2021, MNRAS 508, 1389. (1ao*, 5ci) LMXB parameters. *Long, X. et al.* (26 authors) 2022, ApJL 924, L13. (1x, 3bx) Detection of X-ray polarization. *Mazzola, S.M. et al.* (11 authors) 2021, A&A 654, A102. (1ax, 5ci) Fe Kα and Kβ lines in the NuSTAR spectrum.
V884 Sco (HD 153919) (4U 1700−37)	*van der Meij, V. et al.* (4 authors) 2021, A&A 655, A31. (4ao*) Gaia DR2 confirmation of NGC 6231 as the parent cluster of the runaway HMXB.
V479 Sct (LS 5039)	*Falanga, M. et al.* (6 authors) 2021, A&A 654, A127. (2dgx, 5ij) HMXB phase-resolved hard X-ray emission: spectral hardening above 50 keV.
V644 Ser	*Xu, H.-S. et al.* (4 authors) 2022, RAA 22, 035024. (1ao, 5abcej) Active, ultrashort-period contact binary.
Y Sex	*Yang, Y.-G. et al.* (4 authors) 2021, RAA 21, 290. (1ao, 5abc) Deep, low-mass-ratio overcontact binary.
AY Sex (PSR J1023+0038)	*Stringer, J.G. et al.* (10 authors) 2021, MNRAS 507, 2174. (1ao, 2ao*, 5cdeg) Transitional millisecond PSR in the radio state.
XZ Tau	*Ichikawa, T. et al.* (6 authors) 2021, ApJ 919, 55. (4cr, 5i) Misaligned circumstellar disks and orbital motion of the young binary.
V471 Tau	*Muirhead, P.S., Nordhaus, J., Drout, M.R.* 2022, AJ 163, 34. (1a, 2a, 5cd) Post common-envelope binary revised stellar parameters.
V725 Tau (1A 0535+262)	*Reig, P. et al.* (6 authors) 2022, A&A 659, A178. (2bx, 5i) X-ray spectral-timing variability during the 2020 giant outburst.
QV Tel (HR 6819)	*Frost, A.J. et al.* (19 authors) 2022, A&A 659, L3. (4bcio, 5e) Binary with no BH: Revisiting the source with IR interferometry and optical integral field spectroscopy.
KZ TrA (4U 1626−67)	*Hemphill, P.B. et al.* (4 authors) 2021, ApJ 920, 142. (2cdx, 5i) The LMXB collisional plasma.
BM UMa	*Sarotsakulchai, T. et al.* (6 authors) 2021, PASJ 73, 1470. (1ao, 5abcej) A medium shallow contact binary at the pre-transition stage of evolution from W- to A-type.
GP Vel (Vel X-1)	*Chandra, A.D. et al.* (4 authors) 2021, MNRAS 508, 4429. (1x, 5cgi, 8a) Detection of nearly periodic spin period reversals. *van den Eijnden, J. et al.* (10 authors) 2022, MNRAS 510, 515. (1r, 5cg, 8a) Discovery of radio emission from the bow shock.
LM Vel (IGR J08408−4503)	*Sidoli, L. et al.* (7 authors) 2021, A&A 654, A131. (2dx, 5i) O-type donor intrinsic X-ray emission in the HMXB.

NY Vir — *Er, H., Özdönmez, A., Nasiroglu, I.* 2021, MNRAS 507, 809. (1ao, 5ab) EB (sdB+M) with candidate circumbinary planets.

UY Vol (EXO 0748−676) — *Knight, A.H. et al.* (4 authors) 2022, MNRAS 510, 4736. (1x*, 5cegi) Evidence for a massive NS.

V378 Vul (WR 125) — *Arora, B. et al.* (7 authors) 2021, AJ 162, 257. (1aix) Quest for the colliding-wind binary upcoming periastron passage.

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

HR 6819 — (see QV Tel)

HD 984 — *Franson, K. et al.* (8 authors) 2022, AJ 163, 50. (2a, 4a) Dynamical mass of the young substellar companion.

HD 60803 — *Ryabchikova, T. et al.* (6 authors) 2022, MNRAS 509, 202. (2abc, 5degh) SB2 fundamental parameters and abundance analysis.

HD 93521 — *Douglas, G. et al.* (4 authors) 2022, AJ 163, 100. (2a, 4a) Binary merger.

HD 96609 — *Özdarcan, O.* 2022, MNRAS 509, 1912. (1ao, 5bceg, 6b) EB in the open cluster NGC 3532.

HD 98800 — (see TV Crt)

HD 144941 — *Shultz, M.E. et al.* (5 authors) 2021, MNRAS 507, 1283. (1ao*, 2co, 3bo, 5g) An extremely strong magnetic field in the double-degenerate binary merger product.

HD 153919 — (see V884 Sco)

HD 232486 (HIP 7666) — *Feng, G. et al.* (17 authors) 2021, MNRAS 508, 529. (1ao, 2ao, 5abcdeg) EB with δ Scuti pulsations.

HD 235349 — *Folsom, C.P. et al.* (9 authors) 2022, A&A 658, A105. (2aco, 5dh) A rare phosphorus-rich star in a TESS EB.

HD 259440 (HESS J0632+057) — *Kargaltsev, O. et al.* (4 authors) 2022, ApJ 925, 20. (1x, 2x) High-mass γ-ray binary.
Tokayer, Y.M. et al. (58 authors) 2021, ApJ 923, 17. (1x, 2cox) Multi-wavelength observations of the TeV γ-ray binary.

HD 303734 — *Özdarcan, O.* 2022, MNRAS 509, 1912. (1ao, 5bceg, 6b) EB in the open cluster NGC 3532.

BD−11°162 — *Molina, F. et al.* (7 authors) 2022, A&A 658, A122. (2aco, 5adh) Orbital and atmospheric parameters of the O-type subdwarf binary.

Objects with names including RA and DEC

2MASS J00024841−2953539 — *Smith, G.D. et al.* (30 authors) 2021, MNRAS 507, 5991. (1ao, 2aou, 5cde) Low-mass EB in a triple system in the Blanco 1 open cluster.

IGR J00291+5934 — (see V1037 Cas)

IGR J00370+6122 — *Uchida, N. et al.* (4 authors) 2021, PASJ 73, 1389. (1x, 2dx, 5bgij) HMXB accretion mechanisms.

2MASS J00563900+6526579 (TIC 52041148) — *Borkovits, T. et al.* (26 authors) 2022, MNRAS 510, 1352. (1ao, 2ab, 5abcdeg, 6b) Triply eclipsing triple system.

2MASS J00594349+6454419 (ZTF 17aaaeefu) — *Kozhevnikov, V.P.* 2021, Ap&SS 366, 111. (1bo, 5ab) Discovery of deep eclipses in the CV.

Swift J011511.0−725611	*Kennea, J.A. et al.* (6 authors) 2021, MNRAS 508, 781. (1aox, 2dio, 5c, 6b) Discovery of a rare Be star/WD binary system in the SMC.
WD 0137−349	*Zhou, Y. at al.* (10 authors) 2022, AJ 163, 17. (2a, 5g) HST/WFC3 complete phase-resolved spectroscopy of the WD-brown dwarf binary.
PSR J0218+4232	*Acciari, V.A. et al.* (202 authors) 2021, ApJ 922, 251. (1g) Pulsed emission above 25 GeV but no emission above 100 GeV.
LAMOST J024048.51+195226.9	*Barret, P.E.* 2022, AJ 163, 58. (2r) AE Aqr-type CV.
1SWASP J024743.37−251549.2	*Kim, S.-L. et al.* (9 authors) 2021, AJ 162, 212. (1a, 5c) Pulsation and rotation of the EL CVn-type EB.
2MASS J03475027−1854070 (TIC 121088960)	*Han, E. et al.* (15 authors) 2022, MNRAS 510, 2448. (1ao, 2ab, 5abcdeg) A 2+1+1 system containing the most eccentric, low-mass, short-period EB known.
IRAS 04158+2805	*Ragusa, E. et al.* (13 authors) 2021, MNRAS 507, 1157. (4cior, 5i, 8) Circumbinary and circumstellar discs around the eccentric binary as a testbed for binary-disc interaction.
IPHAS J051814.34+294113.2	*Han, Z.-T. et al.* (9 authors) 2021, AJ 162, 205. (1a, 2a, 5bce) TESS and ZTF observations of the eclipsing Z Cam-type dwarf nova.
EC 05217−3914	(see AQ Col)
CRTS J052209.7−350530	*Wild, J.F. et al.* (12 authors) 2022, MNRAS 509, 5086. (1ao, 5abceg, 8c) Extraction of system parameters.
RX J0529.8−6556	*Martin, R.G., Franchini, A.* 2021, ApJL 922, L37. (5b) Nonperiodic type I Be/XB outbursts suggest orbital period is greater than 300 days.
PTF J053332.05+020911.6	*Chen, H.-L. et al.* (4 authors) 2022, ApJ 925, 89. (8abd) Formation of the double WD binary through stable mass transfer?
1A 0535+262	(see V725 Tau)
1A 0620−00	(see V616 Mon)
HESS J0632+057	(see HD 259440)
MAXI J0637−430	*Baby, B.E. et al.* (6 authors) 2021, MNRAS 508, 2447. (2dx, 5i) The nature of the LMXB transient through spectro-temporal analysis. *Lazar, H. et al.* (13 authors) 2021, ApJ 921, 155. (1x, 2x) Outburst spectral and timing analysis. *Thomas, N.T. et al.* (4 authors) 2022, ApJ 925, 167. (1x, 2x) Spectral properties of the soft X-ray transient.
ASAS J071404+7004.3	*Inight, K. et al.* (14 authors) 2022, MNRAS 510, 3605. (2abc, 5cdegij) A nova-like CV with gusty winds.
PSR J0737−3039A/B	*Iorio, L.* 2021, MNRAS 507, 421. (5f) Spin-orbit misalignment and spin of B impact on the Lense-Thirring orbital precessions of the double PSR.
EXO 0748−676	(see UV Vol)
CSS J075415.6+191052	*Zhang, X.-D. et al.* (6 authors) 2022, RAA 22, 025011. (1ao, 5abcgj) Contact binary evolutionary stage.
IRAS 08005−2356	(see V510 Pup)
2MASS J08093867−2627390	*Dorsch, M. et al.* (7 authors) 2022, A&A 658, L9. (2co, 5g) Discovery of a highly magnetic He-sdO star from a double-degenerate binary merger.
IGR J08408−4503	(see LM Vel)
PSR J0921−5202	*Lorimer, D.R. et al.* (19 authors) 2021, MNRAS 507, 5303. (1r, 5ek) Timing observations of the Galactic millisecond PSR.

4FGL J0935.3+0901	*Zheng, D. et al.* (4 authors) 2022, RAA 22, 025012. (1rx, 2ao, 5ci) Candidate redback-type millisecond binary PSR
PSR B0950+08	*Malofeev, V.M. et al.* (4 authors) 2022, RAA 22, 035010. (1r, 5bc) New features of the PSR's 111 MHz radiation.
GRO J1008−57	*Chen, X. et al.* (13 authors) 2021, ApJ 919, 33. (1x) Relationship between cyclotron resonant frequency and luminosity.
PSR J1023+0038	(see AY Sex)
CXOU J110926.4−650224	*Coti Zelati, F. et al.* (18 authors) 2021, A&A 655, A52. (2dx, 4cr, 5i) Transitional millisecond PSR candidate.
PSR J1146−6610	*Lorimer, D.R. et al.* (19 authors) 2021, MNRAS 507, 5303. (1r, 5ek) Timing observations of the Galactic millisecond PSR.
IGR J12134−6015	*Molina, M. et al.* (9 authors) 2021, MNRAS 507, 3423. (2diox) Source is a Galactic CV.
XSS J12270−4859 (PSR J1227−4853)	*An, H.* 2022, ApJ 924, 91. (1guor*x, 2guor*x) The γ-ray orbital modulation in the transitional millisecond PSR binary. *Stringer, J.G. et al.* (10 authors) 2021, MNRAS 507, 2174. (1ao, 2ao*, 5cdeg) The PSR in the radio state.
SDSS J133725.26+395237.7	*Chandra, V. et al.* (15 authors) 2021, ApJ 921, 160. (1ao, 2do, 5bceg, 6b) Double-lined WD-WD binary.
MAXI J1348−630	*Chakraborty, S. et al.* (7 authors) 2021, MNRAS 508, 475. (2dx, 5i) Evidence of high density disc reflection in the BH XB. *Zhang, W. et al.* (97 authors) 2022, ApJ 927, 210. (1x, 2x, 5i) Peculiar disk behaviors.
2MASS J15251500+5035277 (TIC 193993801)	*Borkovits, T. et al.* (26 authors) 2022, MNRAS 510, 1352. (1ao, 2ab, 5abcdeg, 6b) Triply eclipsing triple system.
4U 1538−522	(see QV Nor)
3FGL J1544.6−1125	*Jaodand, A.D. et al.* (11 authors) 2021, ApJ 923, 3. (2dx, 4cr, 5i) Candidate transitional millisecond PSR in a low-luminosity AD state.
2S 1553−542	*Malacaria, C. et al.* (18 authors) 2022, ApJ 927, 194. (1x, 2x) Accretion in the Be/XB.
PSR J1555−2908	*Ray, P.S. et al.* (24 authors) 2022, ApJ 927, 216. (1grox, 5k) Discovery, timing, and observations of the black widow millisecond PSR.
2XMM J160050.7−514245 (Apep Plume)	*del Palacio, S. et al.* (5 authors) 2022, PASA 39, e004. (1r, 2dr, 5j) Nonthermal emission from the colliding-wind binary.
4U 1626−67	(see KZ TrA)
4U 1630−472 (Nor X-1)	*Chatterjee, K. et al.* (5 authors) 2022, MNRAS 510, 1128. (1x, 5cgi) Anomalous nature of outbursts.
4U 1636−536	(see V801 Ara)
XTE J1650−500	*Cao, Z. et al.* (5 authors) 2022, MNRAS 509, 2517. (1x, 5cgi) Evidence for an expanding corona.
IGR J16547−1916	*Joshi, A. et al.* (8 authors) 2022, A&A 657, A12. (1xb, 2xb, 5ik) X-ray confirmation of the IP.
OAO 1657−415	*Liao, Z. et al.* (4 authors) 2022, MNRAS 510, 1765. (1gx, 5cgi) Torque reversal and orbital profile.
MAXI J1659−152	*Cao, Z. et al.* (5 authors) 2022, MNRAS 509, 2517. (1x, 5cgi) Evidence for an expanding corona.
4U 1700−37	(see V884 Sco)

4U 1705−44	*Malu, S. et al.* (4 authors) 2021, MNRAS 506, 6203. (1x, 2dx, 5i) Exploring the LMXB inner AD.
IGR J17062−6143	*Bult, P.* 2021, ApJ 921, 124. (1x, 5i) Accreting millisecond PSR stochastic X-ray variability.
2MASS J17091769+3127589	*Miller, A. et al.* (8 authors) 2021, AJ 162, 131. (1a, 2a, 5cd) A mass-transfer binary with an extreme mass ratio.
PSR J1720−0533	*Wang, S.Q. et al.* (18 authors) 2021, ApJL 922, L13. (2r) Unusual near-eclipse emission variations in the black widow PSR.
PSR J1723−2837	*Novarino, M.L. et al.* (5 authors) 2021, MNRAS 508, 3812. (1ao, 5abcgij, 8a) Effect of tides on orbital evolution.
IGR J17285−2922	*Stoop, M. et al.* (21 authors) 2021, MNRAS 507, 330. (1ao, 2diox, 4cr) Candidate BH XB.
CXOGBS J173620.2−293338	*Wetuski, J. et al.* (9 authors) 2021, MNRAS 506, 5619. (1x, 2dox, 4co) Candidate symbiotic XB in the Galactic bulge.
EXO 1745−248	*Iwakiri, W.B. et al.* (7 authors) 2021, PASJ 73, 1405. (2c, 5i) A strong 6.6-keV emission feature after the superburst in 2011 October.
CXOGBS J174614.3−321949	*Wetuski, J. et al.* (9 authors) 2021, MNRAS 506, 5619. (1x, 2dox, 4co) Candidate symbiotic XB in the Galactic bulge.
XTE J1751−305	*Glampedakis, K., Suvarov, A.G.* 2021, MNRAS 508, 2399. (8ab) Modelling spin-up episodes in the accreting millisecond X-ray PSR.
XTE J1752−223	*Cao, Z. et al.* (5 authors) 2022, MNRAS 509, 2517. (1x, 5cgi) Evidence for an expanding corona.
PSR J1759+5036	*Agazie, G.Y. et al.* (30 authors) 2021, ApJ 922, 35. (1r) Double NS PSR.
MAXI J1803−298	*Mata Sánchez, D. et al.* (9 authors) 2022, ApJL 926, L10. (1x*, 2o) Hard-state optical wind during the discovery outburst of the X-ray dipper.
SAX J1808.4−3658	(see V4580 Sgr)
XTE J1810−197	*Eie, S. et al.* (14 authors) 2021, PASJ 73, 1563. (1r) Radio-loud magnetar. *Torne, P. et al.* (16 authors) 2022, ApJL 925, L17. (1r) Submillimeter beamed emission pulsations.
XTE J1814−338	(see V5511 Sgr)
MAXI J1820+070	*Axelsson, M., Veledina, A.* 2021, MNRAS 507, 2744. (2cdx, 5i) Accretion geometry of the BH XB. *Bhargava, Y. et al.* (5 authors) 2021, MNRAS 508, 3104. (1x, 5i) A timing-based BH spin estimate. *De Marco, B. et al.* (8 authors) 2021, A&A 654, A14. (2dx*, 5i) Inner flow geometry during hard and hard-intermediate states. *Marino, A. et al.* (13 authors) 2021, A&A 656, A63. (2dx, 5i) Accretion flow during the hard state. *Mastroserio, A. et al.* (12 authors) 2021, MNRAS 507, 55. (8ac) Effect of high density and variable ionization on reverberation lags. *Poutanen, J. et al.* (13 authors) 2022, Sci 375, 874. (3bo, 5i) BH spin-orbit misalignment. *Tomas, J.K. et al.* (8 authors) 2022, MNRAS 509, 1062. (1rx, 5cgi) Evolution of the warped AD through X-ray state change. *Zdziarski, A.A., Tetarenko, A.J., Sikora, M.* 2022, ApJ 925, 189. (1o*r*, 5ij) Jet parameters.
IGR J18219−1347	*O'Connor, B. et al.* (28 authors) 2022, ApJ 927, 139. (1oix, 2x, 5b, 6b) Identification of an X-ray PSR in the Be XB.
4U 1822−371	(see V691 CrA)

PSR J1824−2452M	*Douglas, A. et al.* (21 authors) 2022, ApJ 927, 126. (1orx, 5e, 6b) New black widow millisecond PSR in M28.
Swift J183221.5−162724	*Beuermann, K., Breitenstein, P., Schwab, E.* 2022, A&A 657, A101. (1ao, 5ij) The first eclipsing stream-fed IP.
Swift J1842.5−1124	*Zhang, X. et al.* (7 authors) 2022, MNRAS 510, 1258. (1r, 5cg) Radio detection during the 2020 outburst.
2S 1845−024	*Nabizadeh, A. et al.* (7 authors) 2022, A&A 657, A58. (2xab) Broad-band analysis of the X-ray PSR.
MAXI J1848−015	*Pike, S.N. et al.* (17 authors) 2022, ApJ 927, 190. (1xr, 2x, 5i) Faint X-ray transient in the GLIMPSE-C01 cluster.
PSR J1853−0842A	*Yan, Z. et al.* (12 authors) 2021, ApJ 921, 120. (1r, 6b) New eclipsing black widow PSR in NGC 6712.
Swift J1858.6−0814	*Castro Segura, N. et al.* (34 authors) 2022, Natur 603, 52. (2doux, 5ij) Persistent UV outflow from an accreting NS binary transient.
HETE J1900.1−2455	*Degenaar, N. et al.* (6 authors) 2021, MNRAS 508, 882. (1x, 5i) LMXB dense NS core properties.
XTE J1908+094	*Draghis, P.A. et al.* (6 authors) 2021, ApJ 920, 88. (1x) Spin orientation of the HMXB BH.
GRS 1915+105	(see V1487 Aql)
2MASS J19211822+3745414 (KIC 2438490)	*Çakirli, Ö., Hoyman, B.* 2022, MNRAS 509, 5511. (1ao, 2ab, 5abcdeg) EB in the open cluster NGC 6791.
2MASS J19214558+4802423 (KIC 10727668)	*Odesse, P.E., Lovekin. C.* 2022, ApJ 926, 46. (1ao, 5c) LC modeling using PHOEBE with Markov Chain Monte Carlo analysis.
2MASS J19230516+4114383 (KIC 5957123)	*Odesse, P.E., Lovekin. C.* 2022, ApJ 926, 46. (1ao, 5c) LC modeling using PHOEBE with Markov chain Monte Carlo analysis.
2MASS J19281409+4355308 (KIC 8098300)	*Niu, H.-B. et al.* (4 authors) 2022, RAA 22, 015016. (1ao, 2ao, 5acdeg) Spot and facula activity variations of the eccentric detached EB.
2MASS J19292475+4119272 (KIC 6044064)	*Yoldaş, E.* 2021, RMxAA 57, 351. (1ao*, 2abcg) Chromospherically active EB.
IGR J19294+1816	*Raman, G., Paul, B., Bhattacharya, D.* 2021, MNRAS 508, 5578. (1x, 5bcgi) Results from timing and spectral analysis.
2MASS J19312915+4559061 (KIC 9406652)	*Kimura, M., Osaki, Y.* 2021, PASJ 73, 1225. (8a) A laboratory for tilted disks in CVs. II. Modeling of the orbital LCs.
2MASS J19341881+4518354	*Soomandar, S., Abedi, A.* 2021, RAA 21, 276. (1ao, 5abc) EB LC analysis and period changes.
SGR J1935+2154	*Zampieri, L. et al.* (12 authors) 2022, ApJL 925, L16. (1ox*) Deep upper limit on the magnetar optical emission during a hard X-ray burst. *Zou, J.-H. et al.* (6 authors) 2021, ApJL 923, L30. (1xrg, 5k) X-ray bursts periodicity search.
2MASS J19473366+4416450 (KIC 8314879)	*Odesse, P.E., Lovekin. C.* 2022, ApJ 926, 46. (1ao, 5c) LC modeling using PHOEBE with Markov Chain Monte Carlo analysis.
2MASS J19495420+4106514 (KOI-126)	*Yenawine, M.E. et al.* (10 authors) 2021, ApJ 924, 66. (1ao, 2ao, 5abcdef) Photodynamical modeling of the eclipses in the triple-star system.
PSR J1954+2529	*Parent, E. et al.* (34 authors) 2022, ApJ 924, 135. (1r, 2r) PSR in an eccentric orbit binary.
3A 1954+319	*Bozzo, E. et al.* (4 authors) 2022, MNRAS 510, 4645. (1x*, 5cgi, 8a) Accretion of a clumped wind from a red supergiant donor onto a magnetar.

Swift J2037.2+4151	*Molina, M. et al.* (9 authors) 2021, MNRAS 507, 3423. (2diox) Source is likely a symbiotic XB.
CTCV J2056−3014	*Otoniel, E. et al.* (5 authors) 2021, A&A 656, A77. (8a) Mass limits of the extremely fast-spinning WD in the CV.
PSR J2222−0137	*Guo, Y.J. et al.* (17 authors) 2021, A&A 654, A16. (4acr*, 5be) Improved physical and orbital parameters.
2MASS J22395117+5458482 (TIC 388459317)	*Borkovits, T. et al.* (26 authors) 2022, MNRAS 510, 1352. (1ao, 2ab, 5abcdeg, 6b) Triply eclipsing triple system.
XMMU J235751.1-323725 (NGC 7793 P13)	*Lin, L.C.-C. et al.* (6 authors) 2021 ApJ 924, 65. (2dx*) ULX PSR timing and spectral investigation.

X-ray sources with constellation or galaxy names

Aql X-1	(see V1333 Aql)
Cen X-3	(see V779 Cen)
Cep X-4	(see V490 Cep)
Cyg X-1	(see V1357 Cyg)
Cyg X-2	(see V1341 Cyg)
Cyg-X3	(see V1521 Cyg)
Her X-1	(see HZ Her)
Holmberg II X-1	*Gúrpide, A. et al.* (5 authors) 2021, A&A 654, A10. (2dx, 5i) Recurrent spectral evolutionary cycle in the ULX source.
IC 342 X-1	*Das, S. et al.* (5 authors) 2021, NNRAS 507, 2777. (2dx, 5i, 8abd) Relativistic viscous accretion flow model for ULX sources.
LMX X-1	*Jana, A. et al.* (4 authors) 2021, MNRAS 507, 4779. (2dx, 5i) Spectral and timing study of the BH XB.
LMX X-3	*Jana, A. et al.* (4 authors) 2021, MNRAS 507, 4779. (2dx, 5i) Spectral and timing study of the BH XB.
M51 ULX7	*Brightman, M. et al.* (9 authors) 2022, ApJ 925, 18. (1x, 2x) Evolution of the ULX PSR spin, spectrum and super orbital period.
NGC 247 ULX-1	*D'Aì, A. et al.* (17 authors) 2021, MNRAS 507, 5567. (2cdx, 5gi) Spectral state transition and dips in the ULX.
NGC 5204 X-1	*Gúrpide, A. et al.* (5 authors) 2021, A&A 654, A10. (2dx, 5i) Recurrent spectral evolutionary cycle in the ULX source.
NGC 5408 X-1	*Luangtip, W. et al.* (6 authors) 2021, MNRAS 507, 6094. (2dx, 5ij, 8bd) X-ray reverberation models of the disc wind in the ULX source.
NGC 7793 P13	(see XMMU JJ235751.1-323725)
Nor X-1	(see 4U 1630−472)
Sco X-1	(see V818 Sco)
Vel X-1	(see GP Vel)

Objects with other designations

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

ASASSN-16kr	*Wild, J.F. et al.* (12 authors) 2022, MNRAS 509, 5086. (1ao, 5abceg, 8c) Extraction of system parameters.
ASASSN-16ma	(see V5856 Sgr)
ASASSN-17jf	*Wild, J.F. et al.* (12 authors) 2022, MNRAS 509, 5086. (1ao, 5abceg, 8c) Extraction of system parameters.
ASASSN-18aan	*Wakamatsu, Y. et al.* (44 authors) 2021, PASJ 73, 1209. (1ao, 2ao, 5abcdeij) Eclipsing SU UMa-type CV.
AT 2019qyl	*Jencson, J.E. et al.* (42 authors) 2021, ApJ 920, 127. (1aiou, 2dio, 5ij) Internal collisions in early outflow from the very fast nova.
AT 2019wey	*Yao, Y. et al.* (28 authors) 2021, ApJ 920, 120. (1iox, 6b) A new candidate BH LMXB.
AzV 476	*Pauli, D. et al.* (10 authors) 2022, A&A 659, A9. (1ao, 2ao, 5cdju) The earliest O-type EB in the SMC with surprisingly low stellar masses.
CVSO 104	*Frasca, A. et al.* (17 authors) 2021, A&A 656, A138. (1ao*, 2aou, 5cde) Pre-main sequence SB2 in Ori OB1.
EPIC 212235321	*Zhou, Y. at al.* (10 authors) 2022, AJ 163, 17. (2a, 5g) HST/WFC3 complete phase-resolved spectroscopy of the WD-brown dwarf binary.
Feige 80	*Molina, F. et al.* (7 authors) 2022, A&A 658, A122. (2aco, 5adh) Orbital and atmospheric parameters of the O-type subdwarf binary.
FRB-20200120E	*Kirsten, F. et al.* (66 authors) 2022, Natur 602, 585. (1ai*o*, 2dg*x*, 4cr) Repeating fast radio burst source in M81 originates from a highly magnetized NS formed either through the accretion-induced collapse of a WD, or the merger of compact stars in a binary system.
GJ 1284	*Cardona Guillén, C. et al.* (12 authors) 2021, A&A 654, A134. (1ao*, 2ao, 5bdek) Young SB2 in quintuple system.
GRB 180728A	*Wang, Y.* 2021, ARep 65, 1074. (8c) NS and C-O core binary system.
GRB 190114C	*Ruffini, R.* 2021, ARep 65, 1030. (1g, 8). Discovery of the BH moment of formation in the γ-ray burst source.
GSC 03599-02569	*Gorda, S.Yu., Vatolin, Y.Yu.* 2021, PZ 41, No. 5. (1ao, 5abc) Possible periodic spot activity of the new W UMa-type variable.
GW170817 (AT2017gfo)	*Gillanders, J.H. et al.* (5 authors) 2021, MNRAS 506, 3560. Constraints on the presence of platinum and gold in the spectra of the kilonova. *Hajela, A. et al.* (37 authors) 2022, ApJL 927, L17. (1rx, 4c) X-ray emission in excess to the jet-afterglow decay 3.5 yr after the binary NS merger. *Nedora, V. et al.* (8 authors) 2021, MNRAS 506, 5908. (8) Dynamical ejecta synchrotron emission as a possible contributor to the changing afterglow behaviour.
GW190425	*Barbieri, C. et al.* (5 authors) 2021, A&A 654, A12. (8ac) Ambiguous (double NS or NS-BH) merging system in low latency. *Raaijmakers, G. et al.* (15 authors) 2021, ApJ 922, 269. (8cd) Multimessenger analysis of the kilonova.
GW190521	*Estellés, H. et al.* (11 authors) 2021, ApJ 924, 79. (8) Phenomenological waveform model analysis.
GW190814	*Kilpatrick, C.D. et al.* (83 authors) 2021, ApJ 923, 258. (1ao) A search for the electromagnetic counterpart to the NS-BH merger.
GW200105	*Broekgaarden, F.S., Berger, E.* 2021, ApJL 920, L13. (8c) Formation of the BH-NS merger from isolated binary evolution.

GW200115	*Broekgaarden, F.S., Berger, E.* 2021, ApJL 920, L13. (8c) Formation of the BH-NS merger from isolated binary evolution. *Dichiara, S. et al.* (13 authors) 2021, ApJL 923, L32. (1go) Constraints on the electromagnetic counterpart of the NS-BH merger. *Mandel, I., Smith, R.J.E.* 2021, ApJL 922, L14. (8cd) Non-spinning BH-NS merger.
GX 339-4	(see V821 Ara)
HIP 7666	(see HD 232486)
HIP 107354	(see κ Peg)
HM1 8	*Rodríguez, C.N. et al.* (8 authors) 2021, MNRAS 508, 2179. (1ao, 2aodx, 5cdek) Massive EB.
KIC 2437060	(see V520 Lyr)
KIC 2437149	(see V565 Lyr)
KIC 2438490	(see 2MASS J19211822+3745414)
KIC 5957123	(see 2MASS J19230516+4114383)
KIC 6044064	(see 2MASS J19292475+4119272)
KIC 8098300	(see 2MASS J19281409+4355308)
KIC 8314879	(see 2MASS J19473366+4416450)
KIC 9026766	(see 2MASS J19341881+4518354)
KIC 9406652	(see 2MASS J19312915+4559061)
KIC 10727668	(see 2MASS J19214558+4802423)
KOI-126	(see 2MASS J19495420+4106514)
KSP-OT-201701a	*Lee, Y.* (7 authors) 2022, ApJL 925, L22. (1o, 2o, 5b, 6b) Microlensing discovery of a short-period and unusually helium-deficient dwarf nova.
LS 5039	(see V479 Sct)
MACHO 80.7443.1718	*Jayasinghe, T. et al.* (19 authors) 2021, MNRAS 506, 4083. (1ao*, 2aco, 5cdiegk) The most extreme amplitude heartbeat system.
MWC 560	(see V694 Mon)
NGC 6652B	*Paduano, A. et al.* (15 authors) 2021, MNRAS 506, 4107. (2dx, 4cr) Transitional millisecond PSR candidate.
NSVS 5029961	*Zheng, S.-Y., Li, K., Xia, Q.-Q.* 2021, MNRAS 506, 4251. (1ao, 2co, 5abce) Extreme low mass-ratio contact binary.
St 2-22	*Gałan, C. et al.* (6 authors) 2022, A&A 657, A137. (1ao, 2ao, 5bcdeij) Symbiotic binary orbital and stellar parameters and jet evolution following the 2019 outburst.
TIC 52041148	(see 2MASS J00563900+6526579)
TIC 89428764	*Tang, Y.-K. et al.* (5 authors) 2022, RAA 22, 035009. (1ao, 5abcj) Low mass ratio, totally eclipsing contact binary.
TIC 121088960	(see 2MASS J03475027−1854070)
TIC 193993801	(see 2MASS J15251500+5035277)
TIC 220490049	*Vos, J. et al.* (13 authors) 2021, A&A 655, A43. (1ao*, 2ado*u*) A potential young post-merger hot subdwarf.
TIC 388459317	(see 2MASS J22395117+5458482)
TIC 393943031	*Tang, Y.-K. et al.* (5 authors) 2022, RAA 22, 035009. (1ao, 5abcj) Low mass ratio, totally eclipsing contact binary.

TOI-2119	*Cañas, C.I. et al.* (20 authors) 2022, 163, 89. (1a, 2a, 5cd) An eccentric brown dwarf-M-dwarf EB.
USNO-B1.0 0915-0569037	*Shugarov, S.Yu., Malashevich, S.V.* 2021, PZ 41, No. 6. (1ao, 5b). New CV in Pisces: a WZ Sge-subtype star with rebrightenings.
WR 22	(see V429 Car)
WR 125	(see V378 Vul)
ZTF 17aaaeefu	(see 2MASS J00594349+6454419)

General

Akashi, M., Soker, N. 2021, ApJ 923, 55. (8c) Simulation of a binary NS merger in a common-envelope jets SN.

Aktar, R., Xue, L., Liu, T. 2021, ApJ 922, 120. (8b) AD spiral shocks with mass outflow in a binary.

Andreoni, I. et al. (14 authors) 2022, ApJS 258, 5. (1or, 7b) Optimizing cadences with realistic LC filtering for serendipitous kilonova discovery with the Vera Rubin Observatory.

Ballantyne, H.A. et al. (9 authors) 2021, MNRAS 507, 4507. (8) Long-term stability of planets in and around binary stars.

Banerjee, P. et al. (5 authors) 2022, ApJ 924 20. (8ad) A stellar constraint on Eddington-inspired Born-Infeld gravity from CV binaries.

Bauer, E.B. et al. (4 authors) 2021, ApJL 923, L34. (8c) Masses of WD binary companions to type Ia SNe measured from runaway velocities.

Belloni, D. et al. (15 authors) 2021, ApJS 256, 45. (8c) Breaking the degeneracy in magnetic CV X-ray spectral modeling using X-ray LCs.

Beniamini, P., Lu, W. 2021, ApJ 920, 109. (8c) Survival times of supramassive NSs resulting from binary NS mergers.

Bodaghee, A. et al. (10 authors) 2021, ApJ 919, 81. (4a, 9) Low kick velocities among SMC HBXBs from the spatial correlation function.

Bouffanais, Y. et al. (8 authors) 2021, MNRAS 507, 5224. (8c, 9) New insights on binary BH formation channels after GWTC-2: young star clusters versus isolated binaries.

Byrne, C.M., Stanway, E.R., Eldridge, J.J. 2021, MNRAS 507, 621. (9) Binary evolution pathways of blue large-amplitude pulsators.

Callister, T.A. et al. (5 authors) 2021, ApJL 922, L5. (8c) Unequal-mass binary BH mergers have larger effective spins.

Cao, X., You, B., Yan, Z. 2021, A&A 654, A81. (5i, 8bcd) Magnetic AD-outflow model for the state transition in XBs.

Castellanos-Ramírez, A. et al. (6 authors) 2021, MNRAS 507, 4044. (8bd) Two-wind interactions in binaries with two orbiting giant stars.

Chasovnikov, A.R., Lipunov, V.M., Gorbovskoy, E.S. 2021, RMxAC 53, 134. The spinar model for binary NS mergers.

Chatzis, M., Petropoulou, M., Vasilopoulos, G. 2022, MNRAS 509, 2532. Radio emission from colliding outflows in HMXBs with strongly magnetized NSs.

Chen, H.-L. et al. (4 authors) 2021, MNRAS 506, 4446. Erratum: Formation of millisecond PSRs with helium WDs, ULX's, and GW sources (2021, MNRAS 503, 3540).

Chen, H.-Y., Vitale, S., Foucart, F. 2021, ApJL 920, L3. (8c) The relative contribution to heavy metal production from binary NS mergers and BH-NS mergers.

Chen, J. et al. (5 authors) 2021, RAA 21, 285. (7b) On detecting stellar binary BHs via the LISA-Taiji network.

Chen, M.-H. et al. (4 authors) 2021, ApJ 919, 59. (8c) γ-ray emission from r-process elements produced from NS mergers.

Cherkis, S.A., Lyutikov, M. 2021, ApJ 923, 13. (8d) Magnetic topology in coupled binaries, spin-orbital resonances and flares.

Childs, A.C., Martin, R.G. 2021, MNRAS 507, 3461. (8) Terrestrial planet formation in a circumbinary disc around a coplanar binary.

Cui, Z., Li, X.-D. 2022, RAA 22, 025001. (8c) Magnetized WD + He star binary evolution to type Ia SNe.

Dal Canton, T. et al. (8 authors) 2021, ApJ 923, 254. Real-time search for compact binary mergers in Advanced LIGO and Virgo's third observing run using PyCBC Live.

Das, H.C., Kumar, A., Patra, S.K. 2021, MNRAS 507, 4053. (8c) Effects of dark matter on the in-spiral properties of binary NSs.

Dessart, L. et al. (5 authors) 2021, A&A 656, A61. (8bcd) Nebular phase properties of Ibc SNe from He-star explosions.

Dexter, J., Scepi, N., Begelman, M.C.. 2021, ApJL 919, L20. (8bd) Global radiation MHD simulations of the hard state of BH XBs and the collapse of a hot accretion flow.

Di Carlo, U.N. et al. (11 authors) 2021, MNRAS 507, 5132. (8c, 9) Intermediate-mass BHs from stellar mergers in young star clusters.

D'Orazio, D.J. et al. (5 authors) 2022, ApJ 927, 56. (8) Multimessenger constraints on magnetic fields in merging BH-NS binaries.

Eatough, R.P. et al. (13 authors) 2021, MNRAS 507, 5053. (4cr, 6b) Multi-epoch searches for relativistic binary PSRs and fast transients in the Galactic Centre.

Edelman, B. et al. (4 authors) 2022, ApJ 924 101. (8a) Semiparametric modeling of LIGO-Virgo's binary BH mass distribution.

Ergesh, T. et al. (5 authors) 2022, RAA 22, 025002. (7a) Development of a PSR digital backend based on Radio Frequency System on Chip (RFSoC).

Franchini, A., Martin, R.G. 2021, ApJL 923, L18. (8bd) Eccentric NS disk driven type II outburst pairs in Be/NS XBs.

Franchini, A., Sesana, A., Dotti, M. 2021, MNRAS 507, 1458. (8bc) Circumbinary disc self-gravity governing supermassive BH binary mergers.

Gandhi, P. et al. (9 authors) 2022, MNRAS 510, 3885. Astrometric excess noise in Gaia EDR3 and the search for XBs.

Ginat, Y.B., Perets, H.B. 2021, MNRAS 508, 190. (8c) Binaries are softer than they seem: effects of an external potential on the scattering dynamics of binaries.

Ginzburg, S., Quataert, E. 2021, MNRAS 507, 475. (8abd) Novae heat their food: mass transfer by irradiation.

Glanz, H., Perets, H.B. 2021, MNRAS 507, 2659. (8c) Common envelope evolution of eccentric binaries.

Grichener, A., Soker, N. 2021, MNRAS 507, 1651. (8bcd) Common envelope jets SNe with a BH companion as possible high-energy neutrino sources.

Gronow, S. et al. (7 authors) 2021, A&A 656, A94. (8) Metallicity-dependent nucleosynthetic yields of type Ia SNe originating from double detonations of sub-Chandrasekhar mass WDs.

Guo. Y. et al. (11 authors) 2022, RAA 22, 025009. (1ao, 6ab, 9) The binarity of early-type stars from the LAMOST medium-resolution spectroscopic survey.

Hamers, A.S., Glanz, H., Neunteufel, P. 2022, ApJS 259, 25. (8a, 9) A statistical view of the stable and unstable Roche lobe overflow of a tertiary star onto the inner binary in triple systems.

Hamers, A.S. et al. (4 authors) 2021, MNRAS 506, 5345. (8c, 9) First- and second-generation BH and NS mergers in 2+2 quadruples: population statistics.

Harada, N. et al. (4 authors) 2021, MNRAS 508, 3730. Impact of magnetic braking on high-mass CB formation.

Hatfull, R.W.M., Ivanova, N., Lombardi Jr., J.C. 2021, NNRAS 507, 385. (8ac) Simulating a stellar contact binary merger – I. Stellar models.

Hirai, R., Mandel, I. 2021, PASA 38, e056. (8) Conditions for AD formation and observability of wind-accreting XBs.

Horvath, J.E. et al. (4 authors) 2022, RAA 22, 035004. Fast radio bursts as crustal dynamical events induced by magnetic field evolution in young magnetars.

Hotokezaka, K. et al. (4 authors) 2021, MNRAS 506, 5863. Nebular emission from lanthanide-rich ejecta of NS mergers.

Husain, R., Liu, B., Bromm, V. 2021, MNRAS 508, 2169. Detectability of Population III stellar remnants as XBs from tidal captures in the local Universe.

Inayoshi, K. et al. (4 authors) 2021, ApJ 919, 41. GW backgrounds from coalescing BH binaries at cosmic dawn: an upper bound.

Inoue, H. 2022, PASJ 74, R1. X-ray observations of ADs.

Jadhav, V.V., Subramaniam, A. 2021, MNRAS 507, 1699. (8) Blue straggler stars in open clusters using Gaia: dependence on cluster parameters and possible formation pathways.

Jadhav, V.V. et al. (4 authors) 2021, AJ 162, 264. (1ao, 8a) High mass-ratio binary population in open clusters: Segregation of early type binaries and an increasing binary fraction with mass.

Janssens, S. et al. (9 authors) 2022, A&A 658, A129. (6a, 8a) Uncovering astrometric BH binaries with massive main-sequence companions with Gaia.

Jiang, L. et al. (4 authors) 2021, ApJL 920, L36. (8a) Novel model of an ultra-stripped SN progenitor of a double NS.

Jonker, P.G. et al. (4 authors) 2021, ApJ 921, 131. (8a) Observed mass distribution of Galactic BH LMXBs is biased against massive BHs.

Kamann, S. et al. (5 authors) 2021, MNRAS 508, 2302. Exploring the role of binarity in the origin of the bimodal rotational velocity distribution in stellar clusters.

Khan, F.M., Holley-Bockelmann, K. 2021, MNRAS 508, 1174. (8) Extremely efficient mergers of intermediate-mass BH binaries in nucleated dwarf galaxies.

Krtička, J., Kubát, J. & Krtičková, I. 2022, A&A 659, A117. (8b) X-ray irradiation of the stellar wind in HMXBs with B supergiants: Implications for ULXs.

Kuan, H.-J., Suvarov, A.G., Kokkotas, K.D. 2021, MNRAS 508, 1732. (8) General-relativistic treatment of tidal g-mode resonances in coalescing binaries of NSs – II. As triggers for precursor flares of short γ-ray bursts.

Kuuttila, J., Gilfanov, M. 2021, MNRAS 507, 594. (8bd) Optical emission-line spectra of symbiotic binaries.

Kylafis, N.D., Trümper, J.E., Loudas, A. 2021, A&A 655, A39. (8b) Cyclotron line formation by reflection on the surface of a magnetic NS.

Landry, P., Read, J.S. 2021, ApJL 921, L25. (8a) Mass distribution of NSs in GW binaries.

Laplace, E. et al. (7 authors) 2021, A&A 656, A58. (8c) Different to the core: the pre-SN structures of massive single and binary-stripped stars.

Li, Y.-J. et al. (7 authors) 2021, ApJ 923, 97. (8ad) Population properties of NSs in coalescing compact binaries.

Lipunov, V., Grinshpun, V., Vlasenko, D. 2021, NewAR 93, 101631. Evolutionary relations between different types of magnetized compact objects.

Liu, M.-X., et al. (7 Authors) 2021, RAA 21, 308. (7b) Following up the afterglow: strategy for X-ray observation triggered by GW events.

Liu, Z.-W. et al. (4 authors) 2021, A&A 654, A103. (8ac) Observational signatures of the surviving donor star in the double-detonation model of Type Ia SNe.

Lu, W., McKee, C.F., Mooley, P. 2021, MNRAS 507, 3672. Infrared dust echoes from NS mergers.

Lubow, S.H. 2021, MNRAS 507, 367. (7d, 8a) An analytic solution to the Kozai-Lidov evolution equations.

Luo, F. et al. (5 authors) 2021, RAA 21, 272. (2ao, 9) Binary fraction of O and B-type stars from LAMOST data.

Malofeeva, A.A, Seleznev, A.F., Carraro, G. 2022, AJ 163, 113. (1a, 6b) Binary population in the Pleiades star cluster.

Meng, X.-C., Luo, Y.-P. 2021, MNRAS 507, 4603. (8c) Hot subdwarfs from the surviving companions of the WD + main-sequence channel of Type Ia SNe.

Menon, A. et al. (11 authors) 2021, MNRAS 507, 5013. (8c) Detailed evolutionary models of massive contact binaries – I. Model grids and synthetic populations for the Magellanic Clouds.

Metzger, B.D. et al. (5 authors) 2021, ApJ 923, 100. (8ad) Transients from the cataclysmic deaths of CVs.

Miao, X. et al. (5 authors) 2021, ApJ 921, 114. (8a) Stringent tests of gravity in highly relativistic binary PSRs in the era of LISA and SKA.

Middleton, M. J. et al. (5 authors) 2022, MNRAS 509, 1119. Thermally driven winds in ULX sources.

Moe, M., Kratter, K.M. 2021, MNRAS 507, 3593. (9) Impact of binary stars on planet statistics – I. Planet occurrence rates and trends with stellar mass.

Most, E.R. et al. (4 authors) 2021, MNRAS 506, 3511. (8) On ADs formed in MHD simulations of BH-NS mergers with accurate microphysics.

Murguia-Berthier, A. et al. (28 authors) 2021, ApJ 919, 95. (8c) HARM3D+NUC: a new method for simulating the post-merger phase of binary NS mergers with GRMHD, tabulated EOS, and neutrino leakage.

Niu, R. et al. (4 authors) 2021, ApJ 921, 149. (8a) Constraining scalar-tensor theories using NS-BH GW events.

Olejak, A., Belczynski, K. 2021, ApJL 921, L2. (8c) Implications of high BH spins on the origin of binary BH mergers.

Pavan, A. et al. (4 authors) 2021, MNRAS 506, 3483. (8) Short γ-ray burst jet propagation in binary NS merger environments.

Peng, W. et al. (11 authors) 2022, A&A 657, A116. (8ac) CB evolution based on Gaia DR2. The origin of late WC-type WR stars with low luminosity.

Perego, A. et al. (13 authors) 2022, ApJ 925, 22. (8a) Production of very light elements and strontium in the early ejecta of NS mergers.

Philcox, O.H.E., Goodman, J., Slepian, Z. 2021, MNRAS 506, 6111. (7d) Kepler's Goat Herd: An exact solution to Kepler's equation for elliptical orbits.

Poro, A. et al. (17 authors) 2022, MNRAS 510, 5315. Investigation of the orbital period and mass relations for W UMa-type contact systems.

Rai, K.N., Basak, S., Saha, P. 2021, MNRAS 507, 2813. Radius measurement in binary stars: simulations of intensity interferometry.

Rastello, S. et al. (8 authors) 2021, MNRAS 507, 3612. (8) Dynamics of binary BHs in low-mass young star clusters.

Rastinejad, J.C. et al. (12 authors) 2022, ApJ 927, 50. (9) A systematic exploration of kilonova candidates from NS mergers during the third GW observing run.

Rebassa-Mansergas, A. et al. (9 authors) 2021, MNRAS 506, 5201. WD–main-sequence binaries from Gaia EDR3: the unresolved 100-pc volume-limited sample.

Riley, J. et al. (25 authors) 2022, ApJS 258, 34. (7d) Rapid stellar and binary population synthesis with COMPAS.

Romero-Shaw, I., Lasky, P.D., Thrane, E. 2021, ApJL 921, L31. (8c) Signs of eccentricity in two GW signals may indicate a subpopulation of dynamically assembled binary BHs.

Rueda, J.A. 2021, ARep 65, 1026. (8c) An update of the binary-driven hypernovae scenario of long γ-ray bursts.

Rui, N.Z., Fuller, J. 2021, MNRAS 508, 1618. (8c) Asteroseismic fingerprints of stellar mergers.

Samsing, J. et al. (9 authors) 2022, Natur 603, 237. (8bcd) AGN as potential factories for eccentric BH mergers.

Sarin, N., Lasky, P.D. 2022, PASA 39, e007. (7b) Multimessenger astronomy with a kHz-band GW observatory.

Schwab, J., Bauer, E.B. 2021, ApJ 920, 110. (8c) Final fates of hot subdwarf-WD CBs: mergers involving He/C/O WDs and the formation of unusual giant stars with C/O-dominated envelopes.

Sen, K. et al. (13 authors) 2022, A&A 659, A98. (8ac) Detailed models of interacting short-period massive binary stars.

Shan, X., Wei, C., Hu, B. 2021, MNRAS 508, 1253. Lensing magnification: GWs from coalescing stellar-mass binary BHs.

Shao, Y., Li, X.-D. 2021, ApJ 920, 81. (8c) Population synthesis of BH binaries with compact star companions.

Shao, X. et al. (4 authors) 2022, RAA 22, 015006. (8, 9) Probing the large-scale structure of the Universe through GW observations and the clustering of binary BHs.

Sheikhnezami, S., Fendt, C. 2022, ApJ 925, 161. (8ad) The physics of the MHD disk-jet transition in binary systems: jetted spiral walls launched from disk spiral arms.

Soetha, L.T.T., Kepler, D.O. 2021, MNRAS 506, 3266. (8) Convection and rotation boosted prescription of magnetic braking: application to the formation of extremely low-mass WDs.

Soker, N. 2022, RAA 22, 035025. Common envelope to explosion delay time distribution (CEEDTD) of Type Ia SNe.

Su, B., Xianyu, Z.-Z., Zhang, X. 2021, ApJ 923, 114. (8c) Probing ultralight bosons with compact eccentric binaries.

Su, Y., Lai, D. 2022, MNRAS 510, 4943. Dynamical tides in eccentric binaries containing massive main-sequence stars: analytical expressions.

Susemiehl, N., Meyer, M.R. 2022, A&A 657, A48. (8a) Constraints on the orbital separation distribution and binary fraction of M dwarfs.

Tang, W., Li, X.-D. 2021, MNRAS 506, 3323. (8) On the effect of PSR evaporation on WD cooling.

Terquem, C., Martin, S. 2021, MNRAS 507, 4165. (8c) The circularization time-scales of late-type binary stars.

Tong, X., Wang, Y., Zhu, H.-Y. 2022, ApJ 924 99. (8a) Gravitational collider physics via PSR-BH binaries. II: Fine and hyperfine structures are favored.

Tootle, S.D. et al. (4 authors) 2021, ApJL 922, L19. (8c) Behavior of the threshold mass in unequal-mass, spinning binary NS mergers.

Torniamenti, S. et al. (8 authors) 2021, MNRAS 507, 2253. The impact of binaries on the evolution of star clusters from turbulent molecular clouds.

Van, K.X., Ivanova, N. 2021, ApJ 922, 174. (8c) Constraining progenitors of LMXBs using convection and rotation-boosted magnetic braking.

Vigna-Gómez, A. et al. (7 authors) 2021, ApJL 920, L17. (8c) Fallback SN assembly of heavy binary NSs and light BH-NS pairs and the common stellar ancestry of GW190425 and GW200115.

Wang, B. et al. (8 authors) 2021, MNRAS 506, 4654. (8c, 9) Ultracompact XBs with He star companions.

Wei, W. et al. (8 authors) 2021, ApJ 919, 82. (8c) Deep learning with quantized neural networks for GW forecasting of eccentric compact binary coalescence.

Wong, T.L.S., Bildsten, L. 2021, ApJ 923, 125. (8cd) Mass transfer and evolution of WDs in AM CVn binaries.

Wood, M.L., Mann, A.W., Kraus, A.L. 2021, AJ 162, 128. (6b, 7d) Characterizing undetected stellar companions with combined datasets.

Xing, Z.-P., Li, X.-D. 2021, ApJ 920, 67. (8c) Population synthesis of NS XBs associated with SN remnants.

Xiong, J.-P. et al. (6 authors) 2021, RAA 21, 265. (2ao, 7d) The relative RV calibration for LAMOST medium-resolution stellar spectra.

Xu, K. et al. (7 authors) 2022, RAA 22, 015005. (8) Are there magnetars in HMXBs?

Yang, Y.-P. 2021, ApJ 920, 34. (8c) Optical transients from fast radio bursts heating CB companion stars.

Zhang, S.-C. et al. (8 authors) 2021, RAA 21, 257. (7d) Early-fusion based PSR identification with smart under-sampling.

Zheng, T.-C. et al. (4 authors) 2021, RAA 21, 300. X-ray flares raising upon magnetar plateau as an implication of a surrounding disk of a newborn magnetized NS.

Zhu, J.-P. et al. (8 authors) 2021, ApJ 921, 156. (8c) No detectable kilonova counterpart is expected for O3 NS-BH candidates.

Zou, Z.-C. et al. (4 authors) 2021, ApJ 921, 2. (8a) Gamma-ray bursts in binary systems.

Zuo, Z.-Y., Zhang, H. 2022, RAA 22, 015001. (8c) Case study on the γ-algorithm: possible tests from the luminosity versus displacement correlation of HMXBs.

Collections of data

Abbott, R. et al. (1631 authors) 2022, A&A 659, A84. (6a) Search for intermediate-mass BH binaries in the third observing run of Advanced LIGO and Advanced Virgo.

Alabarta, K. et al. (9 authors) 2021, MNRAS 507, 5507. (2dx, 5i, 9) Failed-transition outbursts in BH LMXBs. Sample of 56 systems.

Ambrosi, E. et al. (4 authors) 2022, MNRAS 509, 4694. Modelling multiwavelength emission of ULX sources accreting above the Eddington limit. Applied to Holmberg II X-1, NGC 4559 X-7, NGC 5204 X-1, NGC 5907 ULX-2.

Anand, S. et al. (13 authors) 2021, RMxAC 53, 91. (7b) DECam-GROWTH search for the faint and distant binary NS and NS-BH mergers in O3A.

Anguita-Aguero, J. et al. (4 authors), 2022, AJ 163, 118. (4a, 5d, 6a) Orbital elements and component masses from spectroscopic and astrometric data of double-lined SBs: HD 3196, HD 13612, HD 26441, HD 27176, HD 64096, HD 103613, HD 130669, HD 137763, HD 153527, HD 172088, HD 191854, HD 193793, HD 223323, WDS 20527+4607.

Banyard, G. et al. (6 authors) 2022, A&A 658, A69. (2ao, 5d) The observed multiplicity properties of B-type stars in the Galactic young open cluster NGC 6231. SB1 systems: V946 Sco, V1208 Sco, HD 152200, HD 326328, CD−41°11030, CD−41°11038, CPD−41°7717, CPD−41°7722, CPD−41°7746, CXOU J165421.3−415536, NGC 6231 78, NGC 6231 225, NGC 6231 255, NGC 6231 273, NGC 6231 723. SB2 systems: V1293 Sco, HD 326343, CPD−41°7727, NGC 6231 189, NGC 6231 223.

Chomiuk, L. et al. (23 authors) 2021, ApJS 257, 49. (1r, 4cr, 5ij) Classical novae at radio wavelengths: V1370 Aql, V1419 Aql, V1723 Aql, V906 Car, V705 Cas, V723 Cas, V1369 Cen, V809 Cep, V1500 Cyg, V1819 Cyg, V1974 Cyg, V2491 Cyg, V2659 Cyg, HR Del, V339 Del, V827 Her, V838 Her, V959 Mon, V357 Mus, V2672 Oph, V392 Per, V351 Pup, V598 Pup, T Pyx, V4743 Sgr, V5589 Sgr, V5666 Sgr, V5667 Sgr, V5668 Sgr, V5855 Sgr, V5856 Sgr, U Sco, V1324 Sco, FH Ser, PW Vul, QU Vul.

Christy, C.T. et al. (10 authors) 2022, PASP 134, 024201. (1ao, 6a) Citizen ASAS-SN data release. I. Variable star classification using Citizen Science. 2923 EBs identified in the ASAS-SN g-band data.

Claret, A. et al. (6 authors) 2021, A&A 654, A17. (1ao*, 5abf) Apsidal motion in EBs using TESS data. II. A test of internal stellar structure: V539 Ara, SW CMa, EM Car, QX Car, IT Cas, PV Cas, CW Cep, EK Cep, VV Crv, EP Cru, Y Cyg, V453 Cyg, V478 Cyg, V1143 Cyg, DI Her, AI Hya, V364 Lac, GG Lup, V578 Mon, V530 Ori, IM Per, IQ Per, ζ Phe, VV Pyx, V1647 Sgr, V760 Sco, PT Vel.

Colman, I.L. et al. (4 authors) 2022, ApJS 258, 39. (1ao, 6a) The Kepler IRIS catalog: Image subtraction LCs for 9150 stars in and around the open clusters NGC 6791 and NGC 6819.

Dai, M. et al. (6 authors) 2022, RAA 22, 035022. (1ao, 5ace, 9) Physical properties of 29 sdB+dM EBs in the Zwicky Transient Facility: ZTF J011339.09+225739.0, J014600.90+581420.4, J050114.39+424741.3, J054744.02+304732.2, J072905.44−183703.4, J153349.44+375927.8, J162256.66+473051.1, J183431.88+061056.7, J183522.73+064247.1, J184042.41+070321.9, J184847.05+115720.3, J185207.60+144547.1, J190705.22+323216.9, J192055.46+041619.5, J192240.88+262415.5, J192513.66+253025.6, J193555.33+123754.8, J193604.87+371017.2, J193737.06+092638.7, J195403.63+355700.6, J195908.44+365041.1, J200411.60+141150.2, J203535.01+354405.0, J204046.56+340702.8, J204638.16+514735.5, J210401.41+343636.3, J221339.18+445155.8, J223421.49+245657.1, J224547.36+490824.7.

Ding, H., Deller, A.T., Miller-Jones, J.C.A. 2021, PASA 38, e048. (1ao, 4a, 5g, 6c, 8a) Gaia EDR3 parallaxes of type I X-ray bursters and their implications on the models of type I X-ray bursts: A generic approach to the Gaia parallax zero point and its uncertainty: V822 Cen (Cen X-4), V1341 Cyg (Cyg X-2), V1727 Cyg (XB 2129+47), NP Ser, 4U 0919−54.

El-Badry, K. et al. (5 authors) 2021, MNRAS 508, 4106 (1ao, 5ceg, 8a) Survey of evolved CVs turning into extremely low-mass WDs; Gaia eDR3 45968897530496384, 184406722957533440, 286337708620373632, 373857386785825408, 861540207303947776, 896438328413086336, 1030236970683510784, 1077511538271752192, 1315840437462118400, 1965375973804679296, 2006232382792027904, 2126361067562200320, 2133938077063469696, 2171644870571247872, 3053571840222008192, 3064766376117338880, 4002359459116052864, 4228735155086295552, 4358250649810243584, 4382957882974327040, 4393660804037754752.

Gabdeev, M.M., et al. (5 authors) 2021, AstL 47, 695. (1ao, 2aco, 5b). Observations of eclipsing CV candidates with the Russian-Turkish 1.5-m telescope (RTT-150): 2XMM J183251.4−100106, MLS1809017 J224712+461815, MGAB-V330, MGAB-V410.

Galiullin, I.I., Gilfanov, M.R. 2021, AstL 47, 587. (1x, 8). X-ray observations of historical classical nova counterparts with the eROSITA telescope onboard the SRG Orbital Observatory during the All-Sky Survey: PQ And, QZ Aur, V630 Cas, V1405 Cas, IV Cep, WX Cet, V1500 Cyg, V1974 Cyg, V2467 Cyg, V2491 Cyg, HR Del, V339 Del, V446 Her, V533 Her, V1674 Her, DK Lac, RS Oph, V2487 Oph, V3666 Oph, V392 Per, V965 Per, AS Psc, V1175 Sgr, V3890 Sgr, V4743 Sgr, V5558 Sgr, V5590 Sgr, V5856 Sgr, V612 Sct, V659 Sct, LV Vul, NQ Vul.

González-Santamaría, I. et al. (6 authors) 2021, A&A 656, A51. PNe in Gaia EDR3: Central star identification, properties, and binarity (catalog; includes discussion concerning CBs).

Grunthal, K., Kramer, M., Desvignes, G. 2021, MNRAS 507, 5658. (8, 9) Revisiting the Galactic double NS merger and LIGO detection rates: PSR J0509+3801, J0737−3039 A and B, B1534+12, J1756−2251, J1757−1854, J1906+0746, J1913+1102, B1913+16, J1946+2052.

Hajdu, T. et al. (5 authors) 2022, MNRAS 509, 246. (1ao, 5abc, 7d) Eclipse timing variation analysis of OGLE-IV EBs towards the Galactic bulge – II. Short-period triple systems: OGLE-BLG-ECL-129186, 131207, 135829, 144579, 151751, 158649, 161428, 169013, 172213, 180010, 181440, 185642, 189164, 199133, 211268, 217867, 221167, 249742, 253744, 280301, 294058.

Halpern, J.P., Thorstensen, J.R. 2022, ApJ 924, 67. (1ao, 2co, 5bc) Optical studies of 10 hard X-ray-selected CV binaries: Swift J0717.8−2156, Swift J0749.7−3218, Swift J0820.6−2805, IGR J18017−3542, IGR J18151−1052, AX J1832.3−0840, PBC J1841.1+0138, IGR J18434−0508, Swift J1909.3+0124, Swift J2237.2+6324.

Helminiak, K.G. et al. (13 authors) 2021, MNRAS 508, 5687. (1ao, 5bcde) Orbital and physical parameters of EBs from the ASAS catalogue – XII. A sample of systems with K2 photometry: RU Cnc, FM Leo, HD 149946, HD 219869, HD 284753, BD+18°2050, BD−19°4582, ASAS J060505+2032.1.

Inoue, Y., Yabe, K., Ueda, Y. 2021, PASJ 73, 1315. (6a) A fundamental plane in XB activity of external galaxies. Contains 5757 XBs hosted by 311 galaxies.

Jack, D. et al. (4 authors) 2022, AN 343, e210015. (2ao, 5d) Bright SBs. II. A study of five systems with orbital periods of < 500 days: HD 18665, HD 27131, HD 171852, HD 215550, HD 217427.

Jacoby, G.H. et al. (9 authors) 2021, MNRAS 506, 5223. (1ao) Binary central stars of PNe identified with Kepler/K2 (34 likely binaries).

Karino, S. 2021, MNRAS 507, 1002. (8) HMXBs with Be donors as ULX sources: Swift J0243.6+6124, M51 ULX-8, M51 ULX-7, M82 X-2, NGC 300 ULX-1, NGC 1313 PULX, NGC 2403 ULX, NGC 5907 ULX-1, NGC 7793 P13, SMC X-3.

Kato, T., Kojiguchi, N. 2021, PASJ 73, 1375. (1ao, 5i) New candidates for AM CVn stars among ASAS-SN transients: ASASSN-20eq, ASASSN-20gx, ASASSN-20jt, ASASSN-20ke, ASASSN-20la, ASASSN-20lr.

Keller, P. M. et al. (7 authors) 2022, MNRAS 509, 4171. (6ab, 7cd) Eclipsing WD binaries in Gaia and the Zwicky Transient Facility: ZTF J0219+4623, J0609+3652, J1100+5210, J1356+5705, J1513+7037, J1637+4917, J1644+2434, J1724+6044, J1747+5529, J1758+7642, J1844+4857, J1920+2722, J1936+3710, J2036+5506, J2048+1930, J2131+4654, J2212+5347, J2219+5628.

Koen, C. 2022, MNRAS 510, 1857. (1aio, 5abce) New photometry of 12 ultrashort-period late-type binary stars: ATO J000.4664−07.7591, WISE 037.9838−32.5114, WISE 057.2082−31.5516, ATO

J074.1225−13.1282, ATO J077.1457−12.0594, ATO J087.2525−21.4364, ATO J137.7047−28.1735, ATO J149.5837−14.2847, ATO J157.4265−28.5737, ATO J208.7447−04.8522, WISE 262.5650−75.9926, ATO J273.0415+03.6435.

Kosec, P. et al. (9 authors) 2021, MNRAS 508, 3569. (1x, 5g, 6a, 7cd) Ionised emission and absorption in a large sample of ULX sources: RX J0209.6−7427, Cir ULX-5, Holmberg II X-1, Holmberg IX X-1, IC 342 X-1, M33 X-8, NGC 55 ULX, NGC 247 ULX, NGC 300 ULX-1, NGC 1313 X-1, NGC 1313 X-2, NGC 4190 ULX-1, NGC 4559 X-7, NGC 5204 X-1, NGC 5408 X-1, NGC 5643 X-1, NGC 6946 X-1, NGC 7793 P13, SMC X-3.

Kovalev, M., Straumit, I. 2022, MNRAS 510, 1515. (2abc, 5de, 6b, 7cd) SB2's in M11. Confirmation of five previously detected SB2 candidates and discovery of 19 new ones.

Kruckow, M.U. et al. (5 authors) 2021, ApJ 920, 86. (6a) Catalog of 839 potential post-common envelope binaries.

Li, L. 2021, ARep 65, 973. (8) Searching for observational evidence for binary star systems in γ-ray bursts: GRB 130427A, 160509A, 160625B, 190114C.

Lipartito, I. et al. (7 authors) 2021, AJ 162, 285. (2a, 5d) Orbital parameters and binary properties of 37 FGK stars in the cores of open clusters NGC 2516 (24 systems) and NGC 2422 (13 systems).

Maitra, C., Haberl, F. 2022, A&A 657, A26. (1xb, 2xb, 5ij) Discovery of four super-soft X-ray sources in XMM-Newton observations of the LMC: XMMU J044626.6−692011, XMMU J050452.0−683909, XMMU J050815.1−683909, XMMU 051854.8−695601.

Merc, J. et al. (13 authors) 2021, MNRAS 506, 4151. (1aio, 2co) Spectroscopic and photometric analysis of symbiotic candidates – I. Ten classical symbiotic candidates: V1017 Cyg, V434 Dra (PN K 1-6), V562 Lyr, V2204 Oph, V379 Peg, V1988 Sgr, IRAS 19050+0001, EC 19249−7343, Hen 3-860, Hen 4-204.

Motta, S.E. et al. (14 authors) 2021, NewAR 93, 101618. (1gox) The INTEGRAL view on BH XBs: V821 Ara (GX 339-4), V1343 Aql (SS 433), V1487 Aql (GRS 1915+105), BW Cir (GS 1354-64), V404 Cyg, V1357 Cyg (Cyg X-1), V1521 Cyg (Cyg X-3), V381 Nor (XTE J1550−564), V2293 Oph (GRS 1716−249), V1033 Sco (GRO J1655−40), V1228 Sco (XTE J1720−318), MAXI J1348−630, MAXI J1631−479, IGR J17091−3624, IGR J17098−3628, IGR J17177−3656, 1E 1740.7−2942, Swift J174510.8−262411, IGR J17454−2919, IGR J17464−3213, IGR J17497−2821, XTE J1752−223, Swift J175328.5−012704, GRS 1758−258, XTE J1817−330, XTE J1818−245, MAXI J1820+070, MAXI J1828−249, MAXI J1836−194.

Nitz, A.H. et al. (8 authors) 2021, ApJ 922, 76. (6a) Third Open GW Catalog: catalog of GWs from compact-binary mergers.

Pala, A.F. et al (31 authors) 2022, MNRAS 510, 6110. (1u, 4a, 5cei) Constraining the evolution of 43 CVs via the masses and accretion rates of their underlying WDs: RX And, LL And, VY Aqr, SS Aur, OV Boo (SDSS J150722.30+523039.8), EG Cnc, V442 Cen, WX Cet, AL Com, IR Com, AX For, U Gem, AM Her, V1108 Her, RZ Leo, GW Lib, QZ Lib, EQ Lyn (SDSS J074531.91+453829.5), EZ Lyn (SDSS J080434.20+510349.2), EF Peg, V627 Peg (MASTER OT J213806.60+261957.0), UV Per, FL Psc (ASAS J002511+1217.2), RZ Sge, WZ Sge, BW Scl, EK TrA, SW UMa, BC UMa, CY UMa, DV UMa, DW UMa, IY UMa, CU Vel, HV Vir, 1RXS J023238.8−371812, SDSS J075507.70+143547.6, SDSS J100515.38+191107.9, SDSS J103533.02+055158.4, 1RXS J105010.3−140431, SDSS J143544.02+233638.7, SDSS J153817.35+512338.0, GD 552.

Panchal, A. et al. (4 authors) 2022, ApJ 927, 12. (1ao, 2o, 5bcj) Long-term photometric and low-resolution spectroscopic analysis of five contact binaries: CRTS J015818.6+260247, J073248.4+405538, J101330.8+494846, J132439.8+130747, J152450.7+245943.

Pandey, S., Subramaniam, A., Jadhav, V.V. 2021, MNRAS 507, 2373. (2dou, 5e) UOCS – VI. UVIT/AstroSat detection of low-mass WD companions to four more blue stragglers in M67: EW Cnc (WOCS J0851325+115040), WOCS J0851035+114502, J0851199+114700, J0851486+114915.

Pichardo Marcano, M. et al. (4 authors) 2021, MNRAS 508, 3275. (1ao, 5gj, 8a) TACOS: TESS AM CVn outbursts survey: V803 Cen, KL Dra, CP Eri, PTF1 J0719+4858, SDSS J1043+5632, PTF1 J2219+3135, ASASSN-14cc, Gaia 16all, ZTF18abihypg.

Prša, A. et al. (47 authors) 2022, ApJS 258, 16. (1ao*, 6a) TESS EBs. I. Short-cadence observations of 4584 EBs in sectors 1-26.

Remple, B.A., Angelou, G.C., Weiss, A. 2021, MNRAS 507, 1795. (5e, 8c) Determining fundamental parameters of detached double-lined EBs via a statistically robust machine learning method: EF Aqr, LL Aqr, AD Boo, SW CMa, YZ Cas, V636 Cen, TZ For, VZ Hya, BG Ind, RW Lac, FL Lyr, V501 Mon, EW Ori, V530 Ori, BK Peg, IM Vir, 1SWASP J063930.33−322404.8, ASAS J065134−2211.5, CoRoT 105906206, HAT-TR-318-007, Kepler-35, KIC 5640750, KIC 7821010, KIC 8410637, KIC 9540226, OGLE LMC-SC9 230659.

Rice, J.R. et al. (6 authors) 2021, ApJ 922, 178. (1ao*, 2dx*, 6a, 9) XBs in M51: Catalog (334 candidates) and statistics.

Rowan, D.M. et al. (8 authors) 2021, MNRAS 507, 104. (1ao*, 2ao*, 6a) Search for ellipsoidal variables in ASAS-SN identifies 369 candidatesi, including 15 showing eclipses.

Sahman, D.I., Dhillon, V.S. 2022, MNRAS 510, 4180. (2c, 5dg, 6a) Searching for nova shells around 47 CVs – II. A second campaign: PX And, HL Aqr, UU Aqr, V794 Aql, V1315 Aql, V1432 Aql, WX Ari, KR Aur, BY Cam, BZ Cam, V482 Cam, V425 Cas, V1024 Cep (HS 0455+8315), CH Crb, V1500 Cyg, V2275 Cyg, CM Del, MN Dra, OZ Dra, V1084 Her, BH Lyn, BP Lyn, HQ Mon, V380 Oph, V1193 Ori, LQ Peg, FY Per, LX Ser, RW Sex, SW Sex, V1294 Tau, RW Tri, UX UMa, DW UMa, LN UMa, QS UMa (1H 0928+500), SS UMi, HS 0220+0603, HS 0229+8016, HS 0506+7725, 1RXS J052430.2+424449, 2MASS J08090840+3814061, SDSS J102800.07+214813.5 (Leo5), SDSS J142955.86+414516.8, HS 1813+6122, 2MASS J19241081+4459348, LS IV −08 3.

Samus, N.N. et al. (5 authors) 2021, PZ 41, No. 7. (6a) The 84th name-list of variable stars, globular clusters (third part) and novae.

Sanghi, A., Vanderbosch, Z.P., Montgomery, M.H. 2021, AJ 162, 133. (1a, 6bd) Identifying periodic variable stars and EBs with long-term Las Cumbres Observatory photometric monitoring of ZTF J0139+5245 (28 BY Dra candidates, 3 EA EBs and 7 EW EBs).

Shara, M.M. et al. (7 authors) 2021, MNRAS 507, 560. A speckle-imaging search for close triple companions of CVs: AE Aqr, SS Cyg, U Gem, AH Her, V884 Her, IX Vel.

Sun, Y. et al. (20 authors) 2021, ApJS 257, 65. (2co*, 6a, 7d) Catalog of 323 CVs from LAMOST DR6.

Szkody, P. et al. (20 authors) 2021, AJ 162, 94. (1a, 2d, 5b) CVs in the second year of the ZTF: 93 objects as known and 279 as strong candidate CVs.

Tang, Y.-K. et al. (5 authors) 2022, ChA&A 46, 63. (1ao, 6ab) Periodicity of TESS single sector 21 variable stars (322 binaries including 131 eclipsing).

Tian, J. et al. (16 authors) 2022, PASA 39, 003. (1r, 5ij, 6c) Early-time searches for coherent radio emission from short γ-ray bursts (GRBs) with the Murchison Widefield Array: GRB 170827B, 190420.98, 190627A, 190712.02, 190804A, 190903A, 191004A, 200325A, 200327A.

Toet, S.E.B. et al. (8 authors) 2021, A&A 654, A21. (3br) Coherent radio emission from a population of RS CVn systems: FG Cam (HD 61396) BH CVn (HR 5110), BQ CVn, DG CVn (GJ 3789), σ CrB (TZ CrB), WW Dra, EV Dra, YY Gem, BF Lyn, EZ Peg, II Peg, DM UMa, FG UMa, BD+33°4462.

Trigueros Páez, E. et al. (6 authors) 2021, A&A 655, A4. (2ai*o*, 5d) MONOS: Multiplicity of Northern O-type spectroscopic systems. II. Orbit review and analysis for 35 SB1 systems and candidates: α Cam, V482 Cas AB (HD 16429 A), V747 Cep, V1357 Cyg (Cyg X-1), V1809 Cyg (68 Cyg), V2011 Cyg (HD 192281), V2185 Cyg (Cyg OB2-22C), 15 Mon AaAb, θ^1 Ori CaCb, QZ Sge, V479 Sct, HD 108, HD 12323, HD 14633 AaAb, HD 15137, HD 37737, HD 46573, HD 52533 A, HD 164438, HD 229232 AB, HD 229234, BD+36°4063, BD+41°3807 (Cyg OB2-11), ALS 15115, ALS 15131, ALS 15133, ALS 15148, Cyg OB2-1 (ALS 11401), Cyg OB2-15 (ALS 15102), Cyg OB2-20 (ALS 11404), Cyg OB2-22 B (ALS 19499), Cyg OB2-29 (ALS 15110), Cyg OB2-41 (ALS 15144), Cyg OB2-70, (ALS 15119), Cyg OB2-A11 (ALS 21079).

Ulaş, B. 2021, RAA 21, 295. (1ao, 5ace, 6b) Four new EB systems in the TESS field: HD 295082, CD−34°13220, TYC 6484-426-1, TYC 6527-2310-1.

Ursi, A. et al. (14 authors) 2022, ApJ 924 80. (1g) AGILE observations of the LIGO-Virgo GW events of the GWTC-1 catalog.

Vakhonin, A. et al. (17 authors) 2022, PZP 22, No. 1. (6b) Results of the search for variable stars in the framework of the "Noosphere" project: 2MASS J06575880-1824346, 2MASS J06591618-2042094, 2MASS J07044374-2150253, 2MASS J07052904-2120325, 2MASS J07060359-2210464, USNO-B1.0 0688-0115902, USNO-B1.0 0693-0111364, USNO-B1.0 0716-0102073.

van den Eijnden, J. et al. (19 authors) 2021, MNRAS 507, 3899. (2dx, 4cr, 5ij) A new radio census of NS XBs. Weakly magnetized systems: V2216 Oph (GX 9+9), V4634 Sgr (GS 1826−24), V926 Sco (4U 1735−44), Ara X-1 (4U 1702−429), Sgr X-3 (GX 9+1), Sgr X-1 (GX 3+1), 2S 0918−549, 4U 1246−588, IGR J17062−6143, 1RXH J173523.7−354013, IGR J17379−3747, XMMU J174716.1−281048, AX J1754.2−2754. Strongly magnetized systems: BQ Cam (V 0332+53), V779 Cen (Cen X-3), V830 Cen (1E 1145.1−6141), V490 Cep, V691 CrA (2A 1822−371), HZ Her (Her X-1), QV Nor (4U 1538−522), V2116 Oph (GX 1+4), V884 Sco (4U 1700−37), KZ TrA (4U 1626−67), GP Vel (Vel X-1), Swift J0243.6+6124, MXB 0656−072, 3A 1239−599, IGR J16207−5129, IGR J16318−4848, IGR J16320−4751, OAO 1657−41, EXO 1722−363, GRO J1744−28, 3XMM J181923.7−170616, 4U 1954+31, SAX J2239.3+6116.

Villaseñor, J.I. et al. (9 authors) 2021, MNRAS 507, 5348. (2ao, 5de, 9) The B-type binaries characterization programme I. Orbital solutions for the 30 Doradus population (50 SB1, 14 SB2, 20 tentative).

Walton, D.J. et al. (7 authors) 2022, MNRAS 509, 1587. (6a, 7cd) A multimission catalogue of 1843 ULX source candidates.

Wang, S. et al. (26 authors) 2021, RAA 21, 292. (1ao, 2abo, 5de, 6ab) LAMOST time-domain survey: first results of four K2 plates. Catalog contains about 2366 binary candidates.

Whitehouse, L.J. et al. (8 authors) 2021, MNRAS 506, 4877. (1ao, 2aco, 5bcdegk) Carbon-enhanced stars with short orbital and spin periods: SDSS J084259.79+225729.8, J090128.28+323833.5, J101548.90+094649.7, SBSS 1310+561, CBS 311, CLS 29.

Wrona, M. et al. (16 authors) 2022, ApJS 259, 16. (1ao*, 5c) The OGLE collection of variable stars: one thousand heartbeat stars in the Galactic Bulge and Magellanic Clouds.

Zasche, P., Henzl, Z., Kára, J. 2022, A&A 659, A8. (1ao, 5ac) The first study of four doubly eclipsing systems: CzeV 439, CzeV 1645, CzeV 2647, OGLE SMC-ECL-1758.

Zhang, B. et al. (16 authors) 2022, ApJS 258, 26. (7d) Spectroscopic binaries from the LAMOST medium-resolution survey. I. Searching for SB2's with a convolutional neural network. Catalog contains 2198 SB2 candidates.

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