International Astronomical Union
Commission 42

BIBLIOGRAPHY OF CLOSE BINARIES

No. 100

Editor-in-Chief:

C.D. Scarfe

Editors:

H. Drechsel
D.R. Faulkner
E. Kilpio
P.G. Niarchos
D. Nogami
R.G. Samec
E. Tamajo
W. Van Hamme
M. Wolf

Material published by March 15, 2015

BCB issues are available via URL:
http://www.konkoly.hu/IAUC42/bcb.html,
http://www.sternwarte.uni-erlangen.de/pub/bcb or
http://www.astro.uvic.ca/~robb/bcb/comm42bcb.html

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

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

1. Photometric data

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

2. Spectroscopic data

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

3. Polarimetry

a. Broad-band b. Spectropolarimetry

4. Astrometry

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

5. Derived results

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

6. Catalogues, discoveries, charts

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

7. Observational techniques

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

8. Theoretical investigations

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

9. Statistical investigations

10. Miscellaneous

a. Abstract b. Addenda or errata

Abbreviations

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

Individual Stars

TW And	*Manzoori, D.* 2014, AN 335, 1064. (1ao*, 5abcej) LC solution of EB; $O-C$ analysis shows period increase due to mass transfer and evidence for a third body.
V342 And B	*Dimitrov, W. et al.* (15 authors) 2015, A&A 575, A101. (1ao, 2ao, 5cde, 6b) Eccentric-orbit EB.
V363 And	*Nelson, R.H.* 2014, IBVS No. 6115. (1a, 2a, 5abcde) Detached EB.
V455 And	*Kononov, D.A. et al.* (5 authors) 2015, ARep 59, 191. (1a, 5ci) A possible mechanism for the formation of humps in the orbital LCs of WZ Sge-type CVs.
AE Aqr	*Hill, C.A. et al.* (5 authors) 2014, MNRAS 444, 192. (2ao, 5bdegk) Roche tomography of K4 V secondary star of CV provides detailed surface mapping with large cool spots and evidence of differential rotation; masses and inclination are derived, and implications for dynamo theory and mass transfer rate are discussed.
DY Aqr	*Alfonso-Garzón, J. et al.* (5 authors) 2014, MNRAS 443, 3022. (1a*bo, 2abco, 5acd) LC and pulsation analysis of Algol-type EB with δ Scuti component.
V729 Aql	*Liakos, A., Cagaš, P.* 2014, Ap&SS 353, 559. (1ao, 5abc) Frequency analysis for 3 EBs with pulsating components.
V1343 Aql (SS 433)	*Atapin, K. et al.* (4 authors) 2015, MNRAS 446, 893. (1ox, 5cgi, 8a) X-ray variability of SS 433: effects of the supercritical AD. *Monceau-Baroux, R. et al.* (4 authors) 2015, A&A 574, A143. 3D hydrodynamical simulation of the jet from subparsec to parsec scales in the HMXB.
V1405 Aql (4U 1915−05)	*Zhang, Z. et al.* (5 authors) 2014, PASJ 66, 120. (2dx, 5gi) Probing the accretion scheme of dipping x-ray binary with Suzaku.
V1408 Aql (4U 1957+115)	*Hakala, P., Muhli, P., Charles, P.* 2014, MNRAS 444, 3802. (1aio, 2dio, 5i) No signature of secondary of LMXB found by optical/near IR photometry; evidence for a precessing AD. *Maitra, D. et al.* (5 authors) 2014, ApJ 794, 85. (2dx, 5b) Negative period derivative.
V1425 Aql (Nova 1995)	*Sanad, M.R.* 2014, JApA 35, 715. (2cu, 5ej) Ultraviolet spectroscopic study from IUE satellite.
V1487 Aql (GRS 1915+105)	*Inqram, A., van der Klis, M.* 2015, MNRAS 446, 3516. (1x, 5cgi) Low-frequency QPOs. *Reid, M.J. et al.* (7 authors) 2014, ApJ 796, 2. (2g, 4a, 5e) Trigonometric parallax, mass of BH. *Zdziarski, A.A.* 2014, MNRAS 444, 1113. (8b) Kinetic power of jet, distance, and inclination of BH binary.
HU Aqr	*Bours, M.C.P. et al.* (9 authors) 2014, MNRAS 445, 1924. (1ao, 5abcgk) Testing the planetary models of the system.
V801 Ara (4U 1636−53)	*Lyu, M., Méndez, M., Altamirano, D.* 2014, MNRAS 445, 3659. (1x, 5cgi, 8a) Detection of millihertz QPOs.
V821 Ara (GX 339-4)	*Debnath, D., Mondal, S., Chakrabarti, S.K.* 2015, MNRAS 447, 1984. (1x, 5cgi) A study of spectral properties during its 2010-11 outburst. *Drappeau, S. et al.* (5 authors) 2015, MNRAS 447, 3832. (8abc) Internal shocks driven by accretion flow variability.

	Koljonen, K.I.I. 2015, MNRAS 447, 2981. (5gi, 7d, 8a) Exploring unsupervised spectral decomposition methods. *Plant, D.S. et al.* (5 authors) 2015, A&A 573, A120. (2dx, 5i) The truncated and evolving inner AD of the BH LMXB.
ϵ Aur	*Muthumariappan, C. et al.* (6 authors) 2014, MNRAS 445, 2884. (2abc, 5deg, 8bc) Spectroscopic observations during the 2009-2011 eclipse. *Stencel, R.E., Blatherwick, R.D., Geballe, T.R.* 2015, AJ 149, 109. (2di, 5g) Persistent Brα and transient CO emission provide information on eclipsing disc. *Strassmeier, K.G. et al.* (6 authors) 2014, AN 335, 904. (1abo, 2ac, 5bcdgik) Time series high resolution spectroscopy and photometry from 2006 to 2013 covers complete eclipse of F0 supergiant by AD around secondary.
RW Aur	*Antipin, S. et al.* (14 authors) 2015, IBVS No. 6126. (1a, 7a) Resolved photometry of components.
V647 Aur (1RXS J063631.9+353537)	*Kozhevnikov, V.P.* 2014, MNRAS 443, 2444. (1bo, 5bck) Periodogram analysis of oscillations in long-term LCs of IP provides WD spin period and its decrease rate.
EW Boo	*Zhang, X.B., Luo, Y.P., Wang, K.* 2015, AJ 149, 96. (1ao, 5cg) Semidetached system with pulsating primary.
MY Cam	*Lorenzo, J. et al.* (7 authors) 2014, A&A 572, A110. (1ao, 2ao, 5bcde) A very massive merger progenitor.
45 Cnc	*Griffin, R.E.M., Griffin, R.F.* 2015, AN 336, 178. (2aa*bo, 5de) Orbital solution of SB2 (G8 III + A3 III).
BR CMi (HD 61273)	*Harmanec, P. et al.* (16 authors) 2015, A&A 573, A107. (1abo*, 2ao, 5bcd) Properties and nature of Be stars. 30. Reliable physical properties of the B9.5e + G8III semi-detached (SD) binary compared to other well studied emission-line SDs.
4 CVn	*Schmid, V.S. et al.* (15 authors) 2014, A&A 570, A33. (1abo*, 2aco, 5cde, 6b) δ Scuti star is a binary.
η Car	*Clementel, N. et al.* (5 authors) 2014, MNRAS 443, 2475. (5j, 8b) 3D radiative transfer SPH simulations of interacting winds can serve as synthetic observations to confine the circumbinary ionization structure and mass loss rate. *Clementel, N. et al.* (5 authors) 2015, MNRAS 447, 2445. (8abc) 3D radiative transfer simulations of inner colliding winds.
QU Car	*Oliveira, A.S. et al.* (5 authors) 2014, MNRAS 444, 2692. (1ao, 2aco, 5bcdij) Orbital period study of V Sge-type candidate for supersoft x-ray source, SN-Ia progenitor and CV system.
AL Cas	*Qian, S.-B. et al.* (7 authors) 2014, AJ 148, 79. (1ao, 5abc) Possible third body with P $\simeq$ 86 years.
CW Cas	*Wang, J.J. et al.* (5 authors) 2014, AJ 148, 95. (1ao, 5abc) Overcontact EB with cyclic period change and variable spottedness.
IR Cas	*Li, K. et al.* (6 authors) 2014, AJ 148, 96. (1ao, 5abc) Near-contact binary with cyclic period change and secular period decrease.
V523 Cas	*Castelaz, M.W.* 2014, IBVS No. 6120. (1a, 5ab, 6d) Another component in EB.
V615 Cas (LS I +61°303)	*Jaron, F., Massi, M.* 2014, A&A 572, A105. (2dg*) Discovery of a periodic apastron GeV peak in the γ-ray emission of the HMXB.

	Massi, M., Jaron, F., Hovatta, T. 2015, A&A 575, L9. (2dx, 4cr) Confirmation of the two close periodicities in the HMXB.
	Paredes-Fortuny, X. et al. (6 authors) 2015, A&A 575, L6. (1ao, 2do) Evidence of coupling between the thermal and nonthermal emission in the γ-ray HMXB.
V1001 Cas	*Samec, R.G., Koenke, S.S., Faulkner, D.R.* 2015, AJ 149, 30. (1ao, 5abcg) Precursor to W UMa-type system - a very short-period Algol with varying spottedness.
V850 Cen (GX 304-1)	*Postnov, K.A. et al.* (6 authors) 2015, MNRAS 446, 1013. (1gx, 5cgj, 8d) Spin-up/spin-down of NS in binary system.
CQ Cep	*Skinner, S.L. et al.* (4 authors) 2015, ApJ 799, 124. (1x, 2x) Near-contact WN6+O9 EB.
δ Cir	*Mayer, P. et al.* (4 authors) 2014, AJ 148, 114. (1o*, 2a, 5adf) Apsidal motion in O-type binary with possibly binary third component.
BY Cir (Nova 1995)	*Sanad, M.R.* 2014, JApA 35, 715. (2cu, 5ej) Ultraviolet spectroscopic study from IUE satellite.
RT CrB	*Xiang, F.-Y., Xiao, T.-Y., Yu, Y.-X.* 2015, PASJ 67, 12. (1ao, 2ao, 5abcdeg) Starspot activity and period change.
	Zhang, W.X., Ran, M.W., Feng, Y.G. 2014, Ap&SS 354, 409. (5ab) Third body in RS CVn-type EB?
CH Cyg	*Rspaev, F. Kondratyeva, L. Aimuratov, E.* 2014, IBVS No. 6117. (1a, 2b, 5d) New brightening in 2014.
V444 Cyg	*Lomax, J.R. et al.* (11 authors) 2015, A&A 573, A43. (2dx, 3bo, 5j) Radiative and Coriolis forces shape the wind collision region in the WR binary.
V751 Cyg	*Page, K.L. et al.* (6 authors) 2014, A&A 570, A37. (2dux) Observations in an optical high state.
V1341 Cyg (Cyg X-2)	*Suárez-Andrés, L. et al.* (5 authors) 2015, MNRAS 447, 2261. (2abc, 5degh, 8a) Chemical abundances of the secondary star.
V1357 Cyg (Cyg X-1)	*Čechura, J., Hadrava, P.* 2015, A&A 575, A5. (8ad) Stellar wind in state transitions of the HMXB.
	Sell, P.H. et al. (9 authors) 2015, MNRAS 446, 3579. (1x, 2bc, 5ceg, 8a) A detailed case study of the interstellar shell near the HMXB.
V2246 Cyg (EXO 2030+375)	*Reig, P. et al.* (5 authors) 2014, MNRAS 445, 4235. (3a, 5cg) High optical polarization.
V2294 Cyg	*Liska, J.* 2014, IBVS No. 6119. (5ab) Light-time effect.
V339 Del (Nova 2013)	*Schaefer, G.H. et al.* (37 authors) 2014, Nature 515, 234. (4co) Post-outburst expansion of classical nova.
	Shore, S.N. et al. (4 authors) 2014, A&A 570, L4. (2do, 5g) On the Raman O VI and related lines in classical nova.
	Tajitsu, A. et al. (5 authors) 2015, Nature 518, 381. (2cdo, 5h) Explosive Li production in classical nova.
AB Dor B (Rst 137B)	*Wolter, U. et al.* (7 authors) 2014, A&A 570, A95. (2drux, 4b, 5eg) Masses, activity and age of the quadruple system. Star B is a CB labelled a/b.
CM Dra	*Feiden, G.A., Chaboyer, B.* 2014, A&A 571, A70. Revised age and resolution of the model-observation radius discrepancy.
OO Dra	*Zhang, X.B. et al.* (11 authors) 2014, AJ 148, 106. (1ao, 5abcg) Pulsating EB.

ZZ Eri	*Samec, R.G. et al.* (4 authors) 2015, AJ 149, 48. (1ao, 5abc) Pre-contact W UMa system with spots and possible third body.
WW Gem	*Yang, Y.G. et al.* (4 authors) 2014, AJ 148, 90. (1ao, 5abc) Near-contact B-type EB with possible mass exchange and third body.
YY Gem	*Butler, C.J. et al.* (11 authors) 2015, MNRAS 446, 4205. (1oiurx, 5abceg) A multiwavelength study.
OU Gem (HD 45088)	*Glazunova, L.V. et al.* (4 authors) 2014, MNRAS 444, 1901. (2ao, 5bdeghk) Absolute parameters and chemical abundances of components of BY Dra-type SB2 system determined.
π^1 Gru	*Mayer, A. et al.* (15 authors) 2014, A&A 570, A113. (4ci, 5g, 8b) Two companions interacting with the wind of the RGB star and a possible hidden companion in the system.
u Her	*Kolbas, V. et al.* (4 authors) 2014, MNRAS 444, 3118. (1ao*, 2ao, 5cdeghj) Combined photometric and spectroscopic analysis of Algol-type EB yields accurate absolute parameters and element abundances of both B-type components; evolutionary state explored.
HZ Her (Her X-1)	*Leahy, D.A., Abdallah, M.H.* 2014, ApJ 793, 79. (2dx, 5eg) Constraints on the properties of the visible star, mass of NS. *Staubert, R. et al.* (8 authors) 2014, A&A 572, A119. (2dx*) Long-term change in cyclotron-line energy in LMXB.
V404 Her (CzeV404)	*Bakowska, K. et al.* (5 authors) 2014, AcA, 64, 337. (1a, 5ab, 6d) Eclipsing dwarf nova in the period gap.
V501 Her	*Lacy, C.H.S., Fekel, F.C.* 2014, AJ 148, 71. (1ao, 2a, 5abcde) Precise masses and radii; age and evolutionary status.
IL Lup (4U 1543−47)	*Morningstar, W.R., Miller, J.M.* 2014, ApJL 793, L33. (2dx, 5k) Measurement of spin parameter of BH.
RR Lyn	*Bensch, K. et al.* (15 authors) 2014, IBVS No. 6121. (2a, 5d) Spectroscopy of multiple EB.
EZ Lyn	*Isogai, M. et al.* (6 authors) 2015, PASJ 67, 7. (1ao, 2do, 5cgij) Optical dual-band photometry and spectroscopy of the WZ Sge-type dwarf nova during the 2010 superoutburst. *Pavlenko, E.P. et al.* (8 authors) 2014, PASJ 66, 113. (1ao, 5cij) Dwarf nova second visit to instability strip.
OT Lyr	*Agerer, F.* 2014, IBVS No. 6123. (1a, 5a) Pulsating component in EB.
AU Mon	*Mennickent, R.E.* 2014, PASP 126, 821. (8acd) System with non-conservative mass transfer.
V640 Mon (HD 47129)	*Palate, M., Rauw, G.* 2014, A&A 572, A16. (2aco, 5g) Short-term spectroscopic variability in massive SB.
V838 Mon	*Loebman, S.R. et al.* (14 authors) 2015, AJ 149, 17. (1ai, 2di, 5ghj) Spectral types and spectral evolution in the optical to infrared region.
V959 Mon	*Chomiuk, L. et al.* (19 authors) 2014, Nature 514, 339. (4cr) γ-ray emission and mass ejection from classical nova.
QV Nor (4U 1538−52)	*Rodes-Roca, J.J. et al.* (5 authors) 2014, AN 335, 804. (1x, 2cdx, 5gj) Study of 2.1 keV absorption line of HMXB; possible origin either in O/Ne atmosphere of NS or in stellar wind.
V 381 Nor (XTE J1550−564)	*Putanen, J., Veledina, A., Revnivtsev, M.G.* 2014, MNRAS 445, 3987. (1aoix, 5cgi) Infrared flares from the hot AD.

47 Oph	*Wang, X. et al.* (4 authors) 2015, AJ 149, 110. (2ao, 4co, 5de) Precise masses, luminosities and distance.
V508 Oph	*Xiang, F.-Y., Yu, Y.-X., Xiao, T.-Y.* 2015, AJ 149, 62. (1ao, 5abc) Overcontact binary with hot spot and changing period.
V2051 Oph	*Longa-Peña, P., Steeghs, D., Marsh, T.* 2015, MNRAS 447, 149. (2abc, 5bdeg) Emission line tomography.
V2612 Oph	*Özdarcan, O., Taş, G.* 2014, AN 335, 833. (1bo, 5abce) UBVR photometry from 2003 to 2009 of W-type W UMa EB provides absolute parameters and distance; $O-C$ analysis reveals parabolic period decrease with superimposed sinusoidal modulation.
FZ Ori	*Prasad, V. et al.* (4 authors) 2014, Ap&SS 353, 575. (1ao, 3ao, 5abc) Photometric and polarimetric studies of W UMa-type binary.
GW Ori	*Fang, M. et al.* (7 authors) 2014, A&A 570, A118. (2abo, 5dik) Inner disk readjustments in triple system.
V1055 Ori (4U 0614+091)	*Baglio, M.C. et al.* (7 authors) 2014, A&A 572, A99. (2do, 3bo) Ultracompact LMXB.
V1375 Ori	*Hauck, N., Griffin, R.F.* 2015, Obs 135, 7. (1ao, 1o*, 2a, 5cde) Spectral types, masses and radii.
V407 Peg	*Prasad, V. et al.* (4 authors) 2014, Ap&SS 353, 575. (1ao, 3ao, 5abc) Photometric and polarimetric studies of W UMa-type binary.
X Per	*Acuner, Z. et al.* (6 authors) 2014, MNRAS 444, 457. (1xg, 5i) Pulse timing analysis suggests presence of AD; study of QPOs. *Li, K. et al.* (6 authors) 2014, AJ 148, 113. (1o*, 2d, 5gj) Spectral variations and x-ray activity related to mass-ejection events.
GK Per	*Šimon, V.* 2015, A&A 575, A65. (1ado*, 2dx) Unstable relation of the x-ray and optical intensities in a series of outbursts of the IP. *Takei, D. et al.* (6 authors) 2015, ApJ 801, 92. (1xo*r*, 2x) Fading and expansion of emission remnant.
IM Per	*Lacy, C.H.S. et al.* (5 authors) 2015, AJ 149, 38. (1ao, 2d, 5abcde) Accurate masses and radii, apsidal motion.
DS Psc	*Zhang, Y.-P. et al.* (6 authors) 2014, ChA&A 39, 28. (1ao, 2bo, 5abcj) Photometric studies of EB.
T Pyx	*Balman, Ş* 2014, A&A 572, A114. (2dx, 5i) Recurrent nova in pre-outburst.
V4200 Sgr (HD 188088)	*Pasquini, L. et al.* (6 authors) 2015, A&A 574, A76. (2au) Tachoastrometry: astrometry with RVs of a SB.
V4580 Sgr (SAX J1808.4−3658)	*Bult, P., van der Klis, M.* 2015, ApJ 798, L29. (1x) Pulse amplitude of ms binary pulsar depends on QPOs.
V5558 Sgr	*Das, R. et al.* (5 authors) 2015, MNRAS 447, 806. (1ao, 2cd, 5cbdeg) An unusually slow nova with multiple outbursts.
V818 Sco (Sco X-1)	*Boroson, B., Vrtilek, S.D., Raymond, J.* 2014, ApJ 793, 59. (2dx, 5i) An attempt to constrain the AD parameters.
CC Scl	*Kato, T. et al.* (5 authors) 2015, PASJ 67, 3. (1ao, 5abcij) Eclipsing SU UMa-type IP. *Longa-Peña, P., Steeghs, D., Marsh, T.* 2015, MNRAS 447, 149. (2abc, 5bdeg) Emission line tomography.
V479 Sct (LS 5039)	*del Palacio, S., Bosch-Ramon, V., Romero, G.E.* 2015, A&A 575, A112. (8a) One-zone model insufficient for this HMXB.

NP Ser
(GX 17+2)
Bu, Q.-C. et al. (6 authors) 2015, ApJ 799, 2. (1x) Horizontal-branch oscillations and break components of NS LMXB.

NY Ser
Pavlenko, E.P. et al. (19 authors) 2014, PASJ 66, 111. (1ao, 5cij) SU UMa-type nova in the period gap with diversity of normal outbursts.

AY Sex
(PSR J1023+0038)
Coti Zelati, F. et al. (13 authors) 2014, MNRAS 444, 1783. (1ioux, 2acdo, 5cdi) Binary millisecond radio pulsar engulfed by ionized circumbinary material from AD and irradiated companion.

GG Tau A
Dutrey, A. et al. (14 authors) 2014, Nature 514, 600. (4cr) Planet formation in multiple system.
Itoh, Y. et al. (50 authors) 2014, RAA 14, 1438. (3ao, 5e) Near-infrared polarimetry of the GG Tauri A binary system.

V725 Tau
(HDE 245770)
Giovannelli, F. et al. (6 authors) 2015, AcA, 65, 107. (1aox, 5i) Optical and x-ray behaviour of HMXB in 2014.

16 UMa
Fekel, F.C. et al. (6 authors) 2015, AJ 149, 63. (2ao, 4b*, 5de) Secondary spectrum detected and measured.

AW UMa
Rucinski, S.M. 2015, AJ 149, 49. (2do, 5ghijk) Detailed atmospheric study with rapid sequence of high-resolution spectra.

KV UMa
(XTE J1118+480)
Gallo, E. et al. (10 authors) 2014, MNRAS 445, 290. (1rx, 5bcgi) The radio/x-ray domain of the BH x-ray binary.
Plotkin, R.M. et al. (8 authors) 2015, MNRAS 446, 4098. (1rioux, 5cgi, 8a) Constraints on relativistic jets in quiescent BH x-ray binaries from broad-band spectral modelling.

LP UMa
Prasad, V. et al. (4 authors) 2014, Ap&SS 353, 575. (1ao, 5abc) Photometric studies of W UMa-type binary.

GP Vel
(Vel X-1)
Manousakis, A., Walter, R. 2015, A&A 575, A58. (2dx*, 5i, 8ad) Origin of the x-ray off-states in the HMXB.
Sidoli, L. et al. (7 authors) 2015, MNRAS 447, 1299. (1x, 5cg, 8a) Probing large-scale wind structures.

KQ Vel
(HD 94660)
Bailey, J.D., Grunhut, J., Landstreet, J.D. 2015, A&A 575, A115. (3bo, 5ch, 6b) Ap star hosts a massive compact companion.

AH Vir
Chen, M. et al. (4 authors) 2015, RAA 15, 275. (1abo, 5abc) Study of orbital period variations.

HT Vir
Bensch, K. et al. (15 authors) 2014, IBVS No. 6121. (2a, 5d) Spectroscopy of multiple EB.

NY Vir
Lee, J.W. et al. (4 authors) 2014, MNRAS 445, 2331. (1ao, 5abceg, 8a) Search for circumbinary planets.

UY Vol
(EXO 0748−676)
Ponti, G., Muñoz-Darias, T., Fender, R.P. 2014, MNRAS 444, 1829. (1x*, 5i) Relation between Fe K absorption and hard/soft state of accreting NS in x-ray binary.

ER Vul
Xiang, Y. et al. (4 authors) 2015, MNRAS 447, 567. (2ab, 5deg, 8a) Doppler images showing strong starspot activities.

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

HR 2692
Fekel, F.C. et al. (6 authors) 2015, AJ 149, 63. (2ao, 4b*, 5de) Secondary spectrum detected and measured.

HD 5980
Koenigsberger, G. et al. (8 authors) 2014, AJ 148, 62. (2ado, 5de) High-mass quadruple system in SMC.

HD 12889 (ADS 1652)	*Tokovinin, A., Gorynya, N.A., Morrell, N.I.* 2014, MNRAS 443, 3082. (2ao, 4c, 5de) SB2 binary is member of quadruple system ADS 1652; orbits and masses of all 4 components determined.
HD 45088	(see OU Gem)
HD 47129	(see V640 Mon)
HD 50975	*Sperauskas, J. et al.* (5 authors) 2014, A&A 570, A3. (1abo*, 2ao, 5cdeg) A yellow supergiant in a SB system.
HD 54381	*Fekel, F.C. et al.* (6 authors) 2015, AJ 149, 63. (2ao, 5d) Secondary spectrum detected and measured.
HD 61273	(see BR CMi)
HD 94660	(see KQ Vel)
HD 139388	*Davies, D.* 2015, PZP 15, 1. (1a, 5c) Period solution for "Unsolved Variable" HD 139388.
HD 181068	*Czesla, S. et al.* (4 authors) 2014, A&A 570, A115. (1ao, 2dox) A hierarchical triple RS CVn with a dwarf-binary companion.
HD 183648 (KIC 8560861)	*Borkovits, T. et al.* (19 authors) 2014, MNRAS 443, 3068. (1ao*, 2ao, 5abcdef) Accurate stellar parameters derived from LC, RV curve, and eclipse timing analysis; anomalous ellipsoidal variations, pulsations and apsidal motion investigated.
HD 188088	(see V4200 Sgr)
HD 207651	*Fekel, F.C.* 2015, AJ 14, 83. (2ao, 5d) Spectroscopic triple system.
HD 217411 (EUV 2RE J2300−07.0)	*Holberg, J.B. et al.* (5 authors) 2014, MNRAS 444, 2022. (1ou, 2dou, 4b, 5k) Triple system with G3 V primary separated by 1.1 arcsec from secondary, which is K0 V + DA WD CB; nature of all three components and constraints on orbits, age and evolution discussed.
HDE 245770	(see V725 Tau)
HDE 314884	*Johnson, C.B. et al.* (10 authors) 2014, MNRAS 444, 1584. (1o*ao, 2abcdo, 5bcd) Slowly pulsating B5-6 V component with active G-type star or WD companion, or possibly NS.
BD +53°2790 (4U 2206+54)	*Stoyanov, K.A. et al.* (5 authors) 2014, AN 335, 1060. (2ao, 5bd) Optical spectroscopic study of HMXB suggests shortest orbital period of all known Be/x-ray binaries.
CPD −63°2495 (PSR B1259−63/LS 2883)	*Tam, P.H.T et al.* (6 authors) 2015, ApJ 798, L26. (1x, 2x) Observations through periastron passage.
CPD −64°481	*Schaffenroth, V. et al.* (7 authors) 2014, A&A 570, A70. (1ao, 2ao, 5cde) Candidate brown dwarf companion of the core He-burning star.

Objects with names including RA and DEC

1SWASP J011351.29+314909.7	*Gómez Maqueo Chew, Y. et al.* (21 authors) 2014, A&A 572, A50. (1ao, 2ao, 5cde) The EBLM project. II. A very hot, low-mass M dwarf in an eccentric and long-period EB system.
2MASS J01325144−7425453 (SXP 265)	*Sturm, R. et al.* (8 authors) 2014, MNRAS 444, 3571. (1ao*xx*, 2abcdo, 5c) Discovery of Be/x-ray binary pulsar in SMC; x-ray and optical variability investigated.
MLS110213: 022733+130617	*Silva, K.M.G. et al.* (7 authors) 2014, RMxAC 44, 56. (1ao, 3o, 10a) New eclipsing polar above period gap.

2MASS J0227637+1156494 — *Liu, L. et al.* (7 authors) 2015, AJ 149, 111. (1ao, 5ce) Contact binary of very short P; correct identification.

PM I 03338+3320 — *Skinner, J.N., Thorstensen, J.R., Lépine, S.* 2014, AJ 148, 115. (2ao, 5d, 6b) New CV discovered in high-proper-motion survey; see also Collections of Data.

PSR J0337+1715 — *Rafikov, R.R.* 2014, ApJ 794, 76. (5f, 8c) Origin and orbital future of triple system.

Galex J045456.8−702656 — *Schwarz, G.J. et al.* (12 authors) 2015, AJ 149, 95. (1ouxi, 2ox, 5bgj) Fast

(Nova LMC 2012) — nova appears to be U Sco-type recurrent dwarf nova.

Swift J0513.4−6547 — *Coe, M.J. et al.* (4 authors) 2015, MNRAS 447, 1630. (1aogx, 2bc, 5bcdeg) A new Be/x-ray binary in LMC.

RX J0520.5−6932 — *Tendulkar, S.P. et al.* (14 authors) 2014, ApJ 795, 154. (2cx) Observation of cyclotron line, measurement of magnetic field.

2FGL J0523.3−2530 — *Xing, Y., Wang, Z., Ng, C.-Y.* 2014, ApJ 795, 88. (1aio, 2dx) Confirmation of binary millisecond pulsar.

1RXS J053855.6−640457 — *Orosz, J.A. et al.* (8 authors) 2014, ApJ 794, 154. (1a, 2a, 5cde) Mass measure-

(LMC X-3) — ments for companion star, BH.
Steiner, J.F., et al. (7 authors) 2014, ApJL 793, L29. (2dx, 5k) Measure of spin parameter of BH.

2MASS J05393883−6944356 — *Alam, Md.S. et al.* (5 authors) 2014, MNRAS 445, 4259. (1x,5cgi, 8a)
(LMC X-1) — Millihertz QPOs and broad iron line.

4U 0614+091 — (see V1055 Ori)

1RXS J063631.9+353537 — (see V647 Aur)

CSS 081231:071126+440405 — *Schwope, A.D. et al.* (7 authors) 2015, AN 336, 115. (1aoo*, 5abci) Long-term (2005-2013) photometry of eclipsing polar with complex accretion geometry.

EXO 0748−676 — (see UY Vol)

OT J075418.7+381225 — *Nakata, C. et al.* (18 authors) 2014, PASJ 66, 116 (1ao, 5cij) Promising candidate for the period bouncer.

ASAS J082243+1927.0 — *Kandulapati, S., Devarapali, S.P., Pasaqada, V.R.* 2015, MNRAS 446, 510. (1ao, 2c, 5abceg, 8d) Photometry and Hα studies.

SDSS J090221.35+381941.9 — *Kato, T. et al.* (39 authors) 2014, PASJ 66, L7. (1ao, 5cij) First measurement of mass ratio in an AM CVn-type object using growing superhumps in superoutburst.

SDSS J093320.86+441705.4 — *Geier, S. et al.* (20 authors) 2015, Science 347, 1126. (2do, 4ao) The
(US 708) — fastest unbound star in our galaxy ejected by a thermonuclear SN Ia in a CB.

NuSTAR J095551+6940.8 — *Bachetti, M. et al.* (24 authors) 2014, Nature 514, 202. (1x) ULX powered by accreting NS.

PSR J1023+0038 — (see AY Sex)

XTE J1118+480 — (see KV UMa)

4U 1210−64 — *Coley, J.B. et al.* (4 authors) 2014, ApJ 793, 77. (2cdx, 5e) Donor star is B0 V or B0-5 III.

XSS J1227.0−4859 — *de Martino, D. et al.* (9 authors) 2014, MNRAS 444, 3004. (1aio, 2abcdo,
(2FGL J1227.7−4853) — 5bi) LMXB studied by optical photometric and spectroscopic observations
(PSR J1227−4853) — in low and high states.

	Roy, J. et al. (15 authors) 2015, ApJ 800, L12. (1r) Discovery and observations of transition from a LMXB to a redback MS pulsar.
XMMU J122939.7+075333	*Joseph, T.D. et al.* (4 authors) 2015, MNRAS 447, 1460. (1x, 5ceg) Short-term variability from the first globular cluster BH binary.
PSR B1259−63/LS 2883	(see CPD −63°2495)
2MASS J13142039+1320011 (NLTT 33370 AB)	*Williams, P.K.G. et al.* (5 authors) 2015, ApJ 799, 192. (1aroux, 2o) Multiwavelength observations of magnetic activity in ultracool dwarfs.
MASTER OT J132104.04+560957.8	*Littlefield, C. et al.* (7 authors) 2015, IBVS No. 6129. (1a, 2c, 5b) High-amplitude and rapid photometric variation of new polar.
Swift J1357.2−0933	*Armas Padilla, M. et al.* (6 authors) 2014, MNRAS 444, 902. (1ax, 5i) LMXB with faintest observed BH component; distance uncertain. *Weng, S-S., Zhang, S-N.* 2015, MNRAS 447, 486. (1ux, 5cgi) Multiwavelength light-curve evolution during its 2011 outburst.
SDSS J141126.20+200911.1	*Littlefair, S.P. et al.* (17 authors) 2014, MNRAS 445, 2106. (1aoi, 2a, 5bcdeg) Confirmation of substellar nature of the companion.
PSR B1509−58	*Pradhan, P. et al.* (4 authors) 2015, RAA 15, 28. (1bx, 5bci) Variations of the harmonic components of the x-ray pulse profile.
4U 1538−52	(see QV Nor)
4U 1543−47	(see IL Lup)
XTE J1550−564	(see V381 Nor)
1SWASP J162842.31+101416.7	*Maxted, P.F.L. et al.* (6 authors) 2014, MNRAS 444, 208. (1ao, 2ado, 5cde) Photometric and spectroscopic study of eclipsing EL CVn-type system (A2V + He WD precursor).
4U 1630−47	*Choudhury, M., Bhatt, N., Bhattacharyya, S.* 2015, MNRAS 447, 3960. (1x, 5cgi, 8a) The QPO states during the 2002-2004 outburst.
WD 1633+572	*Feiden, G.A., Chaboyer, B.* 2014, A&A 571, A70. Revised age and resolution of the model-observation radius discrepancy.
1RXS J163403.0−472344 (Nor X-1)	*Díaz Trigo, M. et al.* (4 authors) 2014, A&A 571, A76. (2dx, 5gi) Disappearance of wind in LMXB.
4U 1636−53	(see V801 Ara).
IGR J16393−4643	*Islam, N. et al.* (4 authors) 2015, MNRAS 446, 4148. (1x, 5ceg) A Suzaku view on the system.
2FGL J1653.6−0159	*Kong, A.K.H. et al.* (11 authors) 2014, ApJL 794, L22. (2dx, 5bk, 6c) Millisecond pulsar binary candidate.
MAXI J1659−152	*Rao Jassal, A., Vadawale, S.V.* 2015, RAA 15, 45. (1ax, 2dx, 5ei) Variation of the inner disk radius during the onset of the 2010 outburst.
XTE J1701−462	*Bu, Q.-C. et al.* (6 authors) 2015, ApJ 799, 2. (1x) Horizontal-branch oscillations and break components of NS LMXB.
IGR J17091−3624	*Janiuk, A. et al.* (4 authors) 2015, A&A 574, A92. (2dx, 5gj) Interplay between heartbeat oscillations and wind outflow in the LMXB.
GALEX J171708.5+675712	*Hermes, J.J. et al.* (12 authors) 2014, MNRAS 444, 1674. (1ao, 2acu, 5abch) Low-mass WD with heavy metal overabundance in binary with P = 5.9 h.
IGR J17361−4441	*Bozzo, E. et al.* (4 authors) 2014, A&A 570, L2. (2dx) A 100 mHz QPO in the x-ray emission. Possibly a LMXB, or a WD tidally disrupting a terrestrial-icy planet.
GRS 1741.9−2853	*Barrière, N.M. et al.* (14 authors) 2015, ApJ 799, 123. (1x, 2x) Type I x-ray burst from faint NS LMXB burster.

GRO J1744−28	*Degenaar, N. et al.* (6 authors) 2014, ApJL 796, L9. (2cdx, 5i) Estimate of magnetic field strength.
XMM J174457−2850.3	*Heinke, C.O. et al.* (4 authors) 2015, MNRAS 447, 3034. (1x, 5cgi, 8a) Analysis of outburst LCs.
CXOGC J174540.0−290005	*Heinke, C.O. et al.* (4 authors) 2015, MNRAS 447, 3034. (1x, 5cgi, 8a) Analysis of outburst LCs.
AX J1745.6−2901	*Pondi, G. et al.* (20 authors) 2015, MNRAS 446, 1536. (1x, 5cgi) On the Fe K absorption - accretion state connection.
4U 1746−37	*Li, Z. et al.* (5 authors) 2015, ApJ 798, 56. (1x, 2x) Ultra-low-mass and small-radius compact object.
1RXS J174755−263352 (GX 3+1)	*Van den Berg, M. et al.* (4 authors) 2014, ApJ 793, 128. (1ai, 2dx, 4a, 6c) Discovery of near infrared conterpart; mass donor probably is not late-type giant.
IGR J17480−2446	*Bonanno, A., Urpin, V.* 2015, A&A 574, A63. (8c) New class of LMXB.
SAX J1750.8−2900	*Allen, J.L. et al.* (4 authors) 2015, ApJ 801, 10. (1x, 2x) Spectral softening in the NS LMXB.
Swift J1753.5−0127	*Neustroev, V.V. et al.* (6 authors) 2015, MNRAS 446, 1041. (1au, 2ac, 5bcdgi) Spectroscopic evidence for a low-mass BH. *Yoshikawa, A. et al.* (7 authors) 2015, PASJ 67, 11. (1ax, 2dx, 5gij) Repeated short-term spectral softening in the low/hard state of the galactic BH candidate.
IGR J17544−2619	*Bhalerao, V. et al.* (19 authors) 2015, MNRAS 447, 2274. (1x, 5cg) Detection of a cyclotron line in the system.
PSR J1756−2251	*Ferdman, R.D. et al.* (14 authors) 2014, MNRAS 443, 2183. (1r, 5be) Radio monitoring of double NS binary with pulsar over 9 years used to perform several tests of general relativity; accurate NS masses, distance, and spin axis inclination derived.
2MASS J18034033−2422427 (Herschel 36)	*Sanchez-Bermudez, J. et al.* (8 authors) 2014, A&A 572, L1. (4co) Resolving the stellar components of the massive multiple system with AMBER/VLTI.
SAX J1808.4−3658	(see V4580 Sgr)
4U 1820−30 (X Sgr X-4)	*Li, Z. et al.* (6 authors) 2015, ApJ 798, 56. (1x, 2x) Ultra-low-mass and small-radius compact object. *Peuten, M. et al.* (4 authors) 2014, ApJ 795, 116. (2dx, 5i) Estimate of distance, BH mass.
2MASS J18571534+5116316	*Guo, D.-F. et al.* (6 authors) 2014, PASJ 66, 100. (1ao, 5abc, 6b) Discovery of a W?UMa type binary GSC 03553–00845.
2MASS J18593119+4916011 (KOI 189)	*Díaz, R. F. et al.* (13 authors) 2014, A&A 572, A109. (1ao*, 2ao, 5cde) Kepler transit candidate KOI-189 b is a very low-mass star in an eccentric 30-day orbit.
2MASS J19050638+4318310 (KIC 7668647)	*Telting, J. H., et al.* (9 authors) 2014, A&A 570, A129. (1ao*, 2ado, 5cdeg, 6b) A 14-day beaming sdB+WD binary with a pulsating subdwarf.
1E 1905.1+0704 (SNIa 3C 397)	*Yamaguchi, H. et al.* (11 authors) 2015, ApJ 801, L31. Ni and Mn abundances indicate progenitor is a WD + MS star binary. (1ix, 2x)
PSR J1906+0746	*van Leeuwen, J. et al.* (16 authors) 2015, ApJ 798, 118. (1r) Binary companion of a relativistic pulsar.
IRAS 19108+1541 (Hen 2-428)	*Santander-Garcia, M. et al.* (8 authors) 2015, Nature 519, 63. (1ao, 2ao, 5cde) PN with double-degenerate, super-Chandrasekhar nucleus.

IGR J19149+1036	*Cusumano, G. et al.* (7 authors) 2015, MNRAS 446, 1041. (1x, 5bcg) Swift view on the system.
GRS 1915+105	(see V1487 Aql)
4U 1915−05	(see V1405 Aql)
2MASS J19285262+4053359 (KIC 5621294)	*Lee, J.W., Hong, K., Hinse, T.C.* 2015, AJ 149, 93. (1ao, 5abc) Algol system with substellar companion.
2MASS J19293152+3804359 (KIC 2856960)	*Marsh, T.R., Armstrong, D.J., Carter, P.J.* 2014, MNRAS 445, 309. (1ao, 2b, 5abcg) Impossible triple star.
2MASS J19415419+4437173 (KIC 8569819)	*Kurtz, D.W. et al.* (5 authors) 2015, MNRAS 446, 1223. (1ao, 5abceg) Validation of the frequency modulation technique applied to the system.
2MASS J19472178+4338496 (KOI 686)	*Díaz, R. F. et al.* (13 authors) 2014, A&A 572, A109. (1ao*, 2ao, 5cde) Kepler transit candidate KOI-686 b is a very low-mass star in an eccentric 52-day orbit.
4U 1957+115	(see V1408 Aql)
2MASS J20271727+3756268 (GSC 3152-1202)	*Bulut, I., Bulut, A.* 2015, AcA, 65, 127. (1a, 5abcf) BVR photometric analysis.
EXO 2030+375	(see V2246 Cyg)
DENIS J203137.5−000511 (USNO-A2.0 0825-18396733)	*Gabdeev, M.M. et al.* (4 authors) 2015, ARep 59, 213 (1a, 2ac, 5cdei) Spectroscopic and photometric studies of polar.
SDSS J212531.92−010745.8	*Shimansky, V.V. et al.* (6 authors) 2015, ARep 59, 199 (1a, 2abc, 5cdgh) Modelling the optical radiation of pre-CV.
PSR J2129−0429	*Hui, C.Y. et al.* (10 outhors) ApJ 801, L27. (1r) Intrabinary shock from redback ms pulsar.
4U 2206+54	(see BD +53°2790)
Swift J2218.4+1925	*Bernardini, F. et al.* (4 authors) 2014, MNRAS 445, 1403. (1aoix, 5cgi) A new hard-x-ray-selected polar.
2MASS J22251603+4127520 (GSC 3208 1986)	*Samec, R.J. et al.* (5 authors) 2015, AJ 149, 90. (1aoi, 2b, 5c) W UMa system with extreme mass ratio and relatively early type.
HS 2231+2241	*Almeida, L.A. et al.* (5 authors) 2014, RMxAC 44, 35. (1ao, 2a, 5cde, 10a) HW Vir-type system with brown dwarf companion.
2MASS J22380235+6727583 (GSC 4277-0586)	*Bulut, I., Bulut, A.* 2015, AcA, 65, 127. (1a, 5abc) BVR photometric analysis.
1E 2259+586	*Nakano, T. et al.* (7 authors) 2015, PASJ 67, 9. (2dx, 5ij) Suzaku studies of magnetar and its associated SN remnant CTB 109.
EUV 2RE J2300−07.0	(see HD 217411)
OT J230425.8+062546	*Nakata, C., et al.* (18 authors) 2014, PASJ 66, 116 (1ao, 5cij) Promising candidate for the period bouncer.
HE 2316−0909 (PHL 457)	*Schaffenroth, V. et al.* (7 authors) 2014, A&A 570, A70. (1ao, 2ao, 5cde) Candidate brown dwarf companion around core He-burning star.

X-ray sources with constellation or galaxy names

Cyg X-1	(see V1357 Cyg)
Cyg X-2	(see V1341 Cyg)
Her X-1	(see HZ Her)

Holmberg IX X-1	*Walton, D.J. et al.* (19 authors) 2014, ApJ 793, 21. (2cu,5i) Modelling of the disk from UV spectra.
IC 10 X-1	*Laycock, S.G., Cappallo, R.C., Moro, M.J.* 2015, MNRAS 446, 1399. (1x, 2ao, 5bceg) *Chandra* and *XMM* monitoring.
IC 342 X-1	*Agrawal, V.K., Nandi, A.* 2015, MNRAS 446, 3926. (1x, 5ceg) Discovery of a QPO. *Marlowe, H. et al.* (9 authors) 2014, MNRAS 444, 642. (1rx, 5i) Spectral state transitions of ultraluminous x-ray source with stellar-mass BH component.
LMC X-1	(see 2MASS J05393883−6944356)
LMC X-3	(see 1RXS J053855.6−640457)
M31 XB158	*Barnard, R., Garcia, M.R., Murray, S.S.* 2015, ApJ 801, 65. (1x) Super-orbital period ∼5.7-day in M31 x-ray binary.
NGC 3384 X-8	*Devi, A.S., Singh, K.Y.* 2014, Ap&SS 354, 535. (2dx, 5i) ULX in NGC 3384 possibly a BH x-ray binary.
Nor X-1	(see 1RXS J163403.0−472344)
X Sgr X-4	(see 4U 1820−30)
Sco X-1	(see V818 Sco)
Vel X-1	(see GP Vel)

Objects with other designations

ADS 1652	(see HD 12889)
CzeV404	(see V404 Her)
GSC 3152-1202	(see 2MASS J20271727+3756268)
GSC 3208-1986	(see 2MASS J22251603+4127520)
GSC 3553-0845	(see 2MASS J18571534+5116316)
GSC 3599-2569	*Gorda, S.Yu., Lyaptsev, A.R., Sobolev, A.M.* 2015, AstBu 70, 109 (1a, 5ac, 6b) Spot activity of new W UMa-type variable.
GSC 4277-0586	(see 2MASS J22380235+6727583)
GX 3+1	(see 1RXS J174755−263352)
GX 17-2	(see NP Ser)
GX 304-1	(see V850 Cen)
GX 339-4	(see V821 Ara)
Hen 2-428	(see IRAS 19108+1541)
Herschel 36	(see 2MASS J18034033−2422427)
HLX-1	*Lasota, J.-P., King, A.R., Dubus, G.* 2015 ApJ 801, L4. (8c) Is x-ray transient an intermediate or stellar-mass BH?
KIC 2856960	(see 2MASS J19293152+3804359)
KIC 5621294	(see 2MASS J19285262+4053359)
KIC 7668647	(see 2MASS J19050638+4318310)
KIC 8560861	(see HD 183648)
KIC 8569819	(see 2MASS J19415419+4437173)
LS 5039	(see V479 Sct)
LS I +61°303	(see V615 Cas)

NGC 7789 V12	*Qian, S.B. et al.* (7 authors) 2015, AJ 149, 38. (1ao, 5abc) Totally eclipsing contact binary in cluster.
NGC 7793 P13	*Motch, C. et al.* (5 authors) 2014, Nature 514, 198. (1ao, 2doux) ULX's BH mass less than 15 solar masses.
NLTT 33370 AB	(see 2MASS J13142039+1320011)
OGLE-2013-BLG-0102LA,B	*Jung, Y.K. et al.* (57 authors) 2015, ApJ 798, 123. (1oi) Microlensing binary with components at star/brown dwarf and brown dwarf/planet boundaries.
PHL 457	(see HE 2316−0909)
Plaskett's Star	(see V640 Mon)
Rst 137B	(see AB Dor)
SNIa 3C397	(see 1E 1905.1+0704)
SN 2014J (M82)	*Diehl, R. et al.* (10 authors) 2015, A&A 574, A72. (2acdg, 5j) γ-rays from the ^{56}Ni decay chain.
	Marion, G.H. et al. (26 authors) 2015, ApJ 798, 39. (1oi, 2abch, 6b) Early observations and analysis of a type Ia SN.
SN iPTF13bvn	*Bersten, M.C. et al.* (9 authors) 2014, AJ 148, 68. (1ao*, 8a) SN Ib seen in HST archival images may have binary precursor.
SS 433	(see V1343 Aql)
SXP 265	(see 2MASS J01325144−7425453)
US 708	(see SDSS J093320.86+441705.4)
USNO-A2.0 0825-18396733	(see DENIS J203137.5−000511)
USNO-A2.0 0975-17281677	*Liakos, A., Cagaš, P.* 2014, Ap&SS 353, 559. (1ao, 5abc) Frequency analysis for 3 EBs with pulsating components.
USNO-A2.0 1200-03937339	*Liakos, A., Cagaš, P.* 2014, Ap&SS 353, 559. (1ao, 5abc) Frequency analysis for 3 EBs with pulsating components.

General

Ablimit, I., Li, X.-D. 2015, ApJ 800, 98. Formation of binary ms pulsars. (8c)

Andrews, J.J. et al. (4 authors) 2015, ApJ 801, 32. Formation of NS-NS binaries. (8c)

Aoki, W. et al. (4 authors) 2015, AJ 149, 39. Binary fraction of extremely metal-poor stars.

Armstrong, D.J. et al. (8 authors) 2014, MNRAS 444, 1873. On the abundance of circumbinary planets.

Avvakumova, E.A., Malkov, O. Yu. 2014, MNRAS 444, 1982. Assessment of evolutionary status of EBs using LC parameters and spectral classification.

Aznar-Siguán, G. et al. (4 authors) 2014, MNRAS 443, 2372. On the possible observational signatures of WD dynamical interactions.

Bankert, J., Krolik J.H., Shi, J. 2015, ApJ 801, 114. Interactions between a central equal-mass binary and a surrounding retrograde circumbinary AD. (8c)

Baptista, R. 2014, RMxAC 44, 37. Time-lapse and flickering maps of ADs to measure viscosity parameter.

Bauswein, A. et al. (4 authors) 2014, ApJL 795, L9. (8c) Constraints on the NS/BH merger rate.

Bear, E., Soker, N. 2014, MNRAS 444, 1698. First- versus second-generation planet formation in post-common envelope binary (PCEB) planetary systems.

Boffin, H.M.J. 2015, A&A 575, L13. (9) Mass-ratio distribution of extremely low-mass WD binaries.

Brown, A. et al. (12 authors) 2015, AJ 149, 67. New faint dwarf nova in Kepler field.

Burkart, J., Quataert, E., Arras, P. 2014, MNRAS 443, 2957. Dynamical resonance locking in tidally interacting binary systems.

Butkevich, A.G., Lindegren, L. 2014, A&A 570, A62. Rigorous treatment of barycentric stellar motion. Perspectives and light-time effects in astrometric and RV data.

Caballero, J.A. 2014, Obs 134, 273. Review of multiplicity in σ Ori cluster.

Cantrell, A.G., Dougan, T.J. 2014, MNRAS 445, 2028. Twins like to be seen: observational biases affecting spectroscopically selected binary stars.

Conroy, K.E. et al. (11 authors) 2014, PASP 126, 914. Discovery of 31 candidate EBs in Kepler engineering data set (20 new).

Curé, M. et al. (5 authors) 2015, A&A 573, A86. (9) A method to deconvolve mass ratio distribution of binary stars.

Davis, P.J., Siess, L., Deschamps, R. 2014, A&A 570, A25. Binary evolution using the theory of osculating orbits. I. Conservative Algol evolution.

Dunhill, A.C. et al. (4 authors) 2014, MNRAS 445, 2285. Misaligned accretion onto supermassive BH binaries.

Foucart, F., Lai, D. 2014, MNRAS 445, 1731. Evolution of linear warps in ADs and applications to protoplanetary discs in binaries.

Fragos, T., McClintock J.E. 2015, ApJ 800, 17. Origin of BH spin in galactic LMXBs. (9)

Fuller, J., Lai, D. 2014, MNRAS 444, 3488. Dynamical tides in compact WD binaries: influence of rotation.

Gao, F.B., Zhang, W. 2014, AJ 148, 116. Periodic solutions for circular restricted three-body problem.

Guillot, S., Rutledge, R.E. 2014, ApJL 796, L3. (8a) Equation of state of quiescent LMXBs.

Habibi, F., Pazhouhesh, R., Shaghaghian, M. 2015, AN 336, 84. Self-similar evolutionary solutions for an accreting magneto-fluid around a compact object with finite electrical conductivity.

Hall, P.D., Tout, C.A. 2014, MNRAS 444, 3209. Core radii and common-envelope evolution.

Hernández-Pérez, F., Bruzual, G. 2014, MNRAS 444, 2571. Binary stars and the UVX in early-type galaxies.

Istrate, A.G. et al. (4 authors) 2014, A&A 571, L3. (8c) The timescale of low-mass proto-He WD evolution.

Istrate, A.G., Tauris, T.M., Langer, N. 2014, A&A 571, A45. The formation of low-mass He WDs orbiting pulsars. Evolution of LMXBs below the bifurcation period.

Justham, S., Podsiadlowski, P., Vink, J.S. 2014, ApJ 796, 121. (8c) Luminous blue variables and superluminous supernovae result from binary mergers.

Kashyap, R. et al. (6 authors) 2015, ApJ 800, L7. Spiral instability in WD-WD merger. (8c)

Knevitt, G. et al. (4 authors) 2014, MNRAS 445, 2034. Heating and ionization of the primordial intergalactic medium by HMXBs.

Koen, C. 2014, MNRAS 444, 1486. An $O-C$ (and light travel time) method suitable for application to large photometric databases.

Kononov, D.A. et al. (6 authors) 2014, ARep 58, 881. (8ad) The applicability of 3D Doppler tomography to studies of polars.

Kotrlová, A et al. (4 authors) 2014, A&A 572, A79. (8ab) Super-spinning compact objects and models of high-frequency QPOs observed in galactic microquasars.

Kylafis, N.D., Belloni, T.M. 2015, A&A 574, A133. (5i) Accretion and ejection in BH x-ray transients.

Li, X.-D. 2015, NewAR 64, 1. Formation of BH LMXBs.

Liu, Z.W. et al. (4 authors) 2015, A&A 574, A12. (8ac, 9) Constraints on single-degenerate Chandrasekhar mass progenitors of Type Iax SNe.

Lu, C. et al. (7 authors) 2014, RAA 14, 1301. Preliminary limits of a logarithmic correction to the Newtonian gravitational potential in binary pulsars.

Lubow, S.H., Martin R.G. 2015, ApJ 800, 96. Misaligned disks in binary systems. (8c)

Martin, D.V., Triaud, A.H.M.J. 2014, A&A 570, A91. Planets transiting non-eclipsing binaries.

Maselli, A. et al. (5 authors) 2015, ApJ 801, 115. Testing gravity with QPO's from accreting stellar-mass BH binaries. (8c)

Matt, S.P. et al. (5 authors) 2015, ApJ 799, L23. Mass-dependence of angular momentum loss in solar-type stars. (8c,9)

Meng, X., Han, Z. 2015, A&A 573, A57. (8c, 9) A pair of CO + He WDs as the progenitor of 2005E-like SNe?

Minesaki, Y. 2015, AJ 149, 20. Proof of equlibrium, and orbits, in discrete restricted four-body problem.

Muñoz-Darias, T. et al. (4 authors) 2014, MNRAS 443, 3270. BH-like hysteresis and accretion states in NS LMXBs.

Nanouris, N. et al. (4 authors) 2015, A&A 575, A64. (5b, 8ad) Efficiency of eclipse-timing variation (ETV) diagrams as diagnostic tools for long-term period variations. II Non-conservative mass transfer and gravitational radiation.

Neilson, H.R. et al. (5 authors) 2015, A&A 574, A2. (9) The occurrence of classical Cepheids in binary systems. Population synthesis of binary Cepheids including EB Cepheids in the LMC.

Neiner, C. et al. (5 authors) 2015, A&A 575, A66. (3b*) Search for magnetic fields in particle-accelerating colliding-wind binaries.

Ohlmann, S.T. et al. (7 authors) 2014, A&A 572, A57. (8c) The WD's carbon fraction as a secondary parameter of type Ia SNe.

Paredes-Fortuny, X. et al. (4 authors) 2015, A&A 574, A77. (8ad) Simulations of an inhomogeneous stellar wind interacting with a pulsar wind in an x-ray binary.

Parfenov, S.Yu., Sobolev, A.M. 2014, MNRAS 444, 620. On the class II methanol maser periodic variability due to the rotating spiral shocks in the gaps of discs around young binary stars.

Parvizi, M., Paegert, M., Stassun, K.G. 2014, AJ 148, 125. EB factory project t oidentify and classify EBs in Kepler data, for use with Kepler 2 and Transiting Exoplanet Survey Satellite (TESS).

Proden, S., Antonini, F., Perets, H.B. 2015 ApJ 799, 118. Evolution of binaries near massive BHs: formation of compact binaries. (8d)

Repetto, S., Nelemans, G. 2014, MNRAS 444, 542. The coupled effect of tides and stellar winds on the evolution of compact binaries.

Réville, V. et al. (5 authors) 2015 ApJ 798, 116. Toward a general formulation of the braking law. (8d)

Riaz, R., Farooqui, S.Z., Vanaverbeke, S. 2014, MNRAS 444, 1189. On the thermal sensitivity of binary formation in collapsing molecular clouds.

Ruiz-Lapuente, P. 2014, NewAR 62, 15. Review of SN Ia progenitors.

Seto, N. 2015, MNRAS 446, 2887. Probability distribution function for inclinations of merging compact binaries detected by gravitational wave interferometers.

Shao, Y., Li, X.-D. 2014, ApJ 796, 37. (8c) Formation of Be stars through binary interaction.

Sion, E.M., Sparks, W. 2014, ApJL 796, L10. (8c) The effect of thermonuclear burning on envelopes of WDs in CVs.

Skopal, A., Cariková, Z. 2015, A&A 573, A8. (8bd) Wind mass transfer in S-type symbiotic binaries. I. Focusing by the wind compression model.

Soker, N. 2015, ApJ 800, 114. Close stellar binary systems by grazing envelope evolution. (8c)

Soszynski, I. et al. (14 authors) 2015, AcA, 65, 39. Ultra-short-period binary systems in the OGLE fields toward the galactic bulge.

Stoll, M.H.R., Kley, W. 2014, A&A 572, A77. (8b) Vertical shear instability in AD models with radiation transport.

Suleimanov, V. et al. (4 authors) 2014, A&A 571, A55. Modelling the EUV spectra of optically thick boundary layers of dwarf novae in outburst.

Wagh, S.M. 2014, JApA 35, 595. Measuring velocity and acceleration using Doppler shift of a source with an example of jet in SS433.

Wang, Z.-J., Zhu, C.-H., Lu, G.-L. 2015, RAA 15, 55. Contribution of dust produced by binary merger ejecta.

Xin, Y. et al. (6 authors) 2015, ApJ 801, 67. Collisonal and coalescence origin of two blue-straggler sequences in M31. (8c)

Yamada, K. et al. (4 authors) 2014, PASJ 66, 97. Improving the moment approach for astrometric binaries: possible application to Cyg X-1.

Yang, Q-X. et al. (7 authors) 2015, MNRAS 447, 1692. Correlation between the photon index and x-ray luminosity of BH x-ray binaries and active galactic nuclei: observations and interpretation.

Yoon, D., Heinz S. 2015, ApJ 801, 55. Interactions of microquasar jets with a stellar wind in HMXBs. (8c)

Young, M.D., Baird, J.T., Clarke, C.J. 2015, MNRAS 447, 2907. The evolution of the mass ratio of accreting binaries: the role of gas temperature.

Yuan, H. et al. (8 authors) 2015, ApJ 799, 135. An average binary fraction for field FGK stars of 41%. (1io*)

Yuen, R., Melrose, D.B. 2014, PASA 31, 39. Visibility of pulsar emission: motion of the visible point.

Zhang, X. et al. (4 authors) 2014, MNRAS 445, 660. Post-merger evolution of carbon-oxygen + helium WD binaries and the origin of R CrB and extreme helium stars.

Zhou, X.-L. et al. (4 authors) 2015, ApJ 798, L5. Scaling of 3:2 twin-peak QPO frequencies with BH mass. (9)

Zuo, Z.-Y. 2015, A&A 573, A58. (8c, 9) Displacement of XBs: constraints on the natal kicks.

Zuo, Z.-Y., Li, X.-D. 2014, ApJ 797, 45. (8c) Use of x-ray luminosity function of HMXBs to constrain common envelope mechanisms.

Zuo, Z.-Y., Li, X.-D., Gu, Q.-S. 2014, MNRAS 443, 1889. Erratum: Population synthesis on HMXBs: prospects and constraints from the universal x-ray luminosity function.

Collections of data

Balman, S., Godon, P., Sion, E.M. 2014, ApJ 794, 84. (2dx) Boundary layer study of BZ Cam, V592 Cas, MV Lyr.

Balona, L.A. 2014, MNRAS 443, 1946. (1ao*, 7d) New time-delay method for detection of binaries with pulsating components; application to 34 Kepler objects with δ Scuti components results in detection of 5 binaries, for which SB elements were determined: BD+38°3569 (KIC 3441784), HD 181469 (KIC 4150611), 2MASS J19165608+3923114 (KIC 4253860), 2MASS J19531175+4028131 (KIC 5302006), 2MASS J19591176+4544073 (KIC 9304923).

Basturk, O. et al. (18 authors) 2014, IBVS No. 6125. (5a) Times of minima of EB: RT And, AB And, BD And, OO Aql, V417 Aql, SS Ari, AR Aur, IU Aur, EL Boo, V776 Cas, GW Cep, RW Com, CC Com, YY CrB, WZ Cyg, ZZ Cyg, MY Cyg, V2280 Cyg, V2294 Cyg, YY Del, AK Her, CC Her, PP Lac, AP Leo, UV Lyn, U Peg, KL Per, CU Sge, CW Sge, CU Tau, V781 Tau, HH UMa, AX Vir, HW Vir.

Bodaghee, A. et al. (5 authors) 2015, ApJ 801, 49. (1x) Discovery of x-ray population in VVV Cl077: CXOU J163447.8−473243, CXOU J163448.0−473246, CXOU J163448.5−473229.

Breedt, E. et al. (9 authors) 2014, MNRAS 443, 3174. (6ab) Over 1000 CVs identified by the Catalina Real-time Survey (CRTS); table is available online. Spectroscopic identification of 85 additional systems reported and outburst properties of complete sample studied.

Çalişka, Ş. et al. (10 authors) 2014, AJ 148, 126. (1ao, 2a*, 5abcde) Spotted W UMa systems: HI Dra, AK Her, V2612 Oph, V1128 Tau.

Evans, A. et al. (4 authors) 2014, MNRAS 444, 1683. (1ai*) WISE IR band fluxes of classical and recurrent novae used to confirm dust and line emission for 36 objects. Eight recurrent novae: T CrB, KT Eri, RS Oph, T Pyx, V3890 Sgr, V745 Sco, U Sco, EU Sct; 28 classical novae: V603 Aql, V1229 Aql, V1370 Aql, V1494 Aql, T Aur, QZ Aur, T Boo, V705 Cas, V723 Cas, V1065 Cen, AR Cir, DZ Cru, V476 Cyg, V1974 Cyg, V2361 Cyg, V2362 Cyg, V2467 Cyg, HR Del, DM Gem, DN Gem, DQ Her, V533 Her, GK Per, RR Pic, V1186 Sco, V1280 Sco, CT Ser, V382 Vel.

Gianninas, A., et al. (6 authors) 2014, ApJ 794, 35. (5eg) Spectroscopic analysis of 61 low-mass WD's in binary systems, from ELM survey.

Griffin, R.F. 2014, Obs 134, 245. (2a, 5d) RVs and orbits: HR 4285, HR 5835, HD 22521, BD +15°1538, all SB1s.

Griffin, R.F. 2014, Obs 134, 316. (2a, 5d) RVs and orbits: 1 Aqr, HD 134169, HD 176526, HD 219420, all SB1s.

Griffin, R.F. 2014, Obs 135, 15. (2a, 5d) RVs and orbits: ν Cet, HD 9592, HD 10171, HD 11738, BD +59°224 (composite spectrum K4 Ib + B3 V)

Gonçalves, D.R. et al. (4 authors) 2015, MNRAS 447, 993. (1ao, 2abc, 5cdg, 6b) Discovery of true, likely and possible symbiotic stars in the dwarf spheroidal NGC 205: NGC 205 SySt-1, NGC 205 SySt-2, F1-18 NGC 205.

Hachisu, D. Kato, M. 2015, ApJ 798, 76. (1aiou, 5c) Free-free versus photospheric emission: V705 Cas, V723 Cas, HR Del, GQ Mus, RR Pic, V5558 Sgr, PW Vul.

Halbwachs, J.-L. et al. (10 authors) 2014, MNRAS 445, 2371. (2a, 5deg) Mass ratios of 20 new SB2s: HD 110106, HIP 626, HIP 7134, HIP 7143, HIP 12472, HIP 13791, HIP 24035, HIP 25160, HIP 29982, HIP 48895, HIP 61727, HIP 61732, HIP 62935, HIP 67195, HIP 69481, HIP 72706, HIP 94371, HIP 101452, HIP 110900, HIP 114661.

Hubscher, J. 2014, IBVS No. 6118. (5a) BAV Results of observations - Photoelectric minima of selected EBs: RT And, UU And, AA And, AB And, AD And, BD And, BL And, BX And, CN And, CO And, DO And, DS And, EP And, GK And, GZ And, HS And, LM And, LO And, QW And, QX And, V372 And, V404 And, V444 And, V473 And, V487 And, V502 And, V506 And, V509 And, V510 And, V512 And, V514 And, V546 And, V547 And, V560 And, V565 And, HS Aqr, IO Aqr, LL Aqr, MU Aqr, FK Aql, KP Aql, V417 Aql, V640 Aql, V688 Aql, V1045 Aql, V1075 Aql, V1798 Aql, V1799 Aql, RX Ari, BN Ari, BO Ari, BQ Ari, CL Ari, RZ Aur, SX Aur, TT Aur, WW Aur, AP Aur, AR Aur, BF Aur, FO Aur, FR Aur, GX Aur, HL Aur, IM Aur, IU Aur, IY Aur, LY Aur, MU Aur, V364 Aur, V410 Aur, V425 Aur, V455 Aur, V459 Aur, V567 Aur, V618 Aur, V620 Aur, V636 Aur, V641 Aur, TU Boo, TY Boo, VW Boo, BG Boo, GN Boo, GQ Boo, GR Boo, GS Boo, GT Boo, XZ Cam, AK Cam, AO Cam, AT Cam, AV Cam, AW Cam, CD Cam, NQ Cam, NS Cam, PP Cam, V366 Cam, V369 Cam, V378 Cam, V381 Cam, V394 Cam, V396 Cam, V418 Cam, V420 Cam, V428 Cam, V429 Cam, V438 Cam, V447 Cam, V452 Cam, V454 Cam, V466 Cam, V473 Cam, V474 Cam, V479 Cam, V489 Cam, HN Cnc, IL Cnc, KY Cnc, BI CVn, DF CVn, EX CVn, FI CVn, RW CMi, AK CMi, TV Cas, TW Cas, AB Cas, AE Cas, AH Cas, AX Cas, BS Cas, BU Cas, BZ Cas, DN Cas, DO Cas, DZ Cas, EG Cas, EP Cas, EY Cas, GK Cas, GT Cas, IL Cas, IQ Cas, IR Cas, LR Cas, MM Cas, MN Cas, NU Cas, OX Cas, PV Cas, V336 Cas, V337 Cas, V344 Cas, V359 Cas, V361 Cas, V366 Cas, V375 Cas, V380 Cas, V381 Cas, V448 Cas, V471 Cas, V473 Cas, V520 Cas, V523 Cas, V541 Cas, V559 Cas, V821 Cas, V969 Cas, V1030 Cas, V1044 Cas, V1046 Cas, V1060 Cas, V1094 Cas, V1107 Cas, V1115 Cas, V1138 Cas, V1139 Cas, V1160 Cas, SU Cep, VW Cep, VZ Cep, WX Cep, XX Cep, XZ Cep, AI Cep, BE Cep, CW Cep, DN Cep, EY Cep, IW Cep, V397 Cep, V736 Cep, V808 Cep, AQ Com, CN Com, DD Com, LL Com, LO Com, LT Com, MM Com, MR Com, TU CrB, Y Cyg, VV Cyg, BR Cyg, CG Cyg, DK Cyg, DL Cyg, DO Cyg, DP Cyg, GO Cyg, GV Cyg, KR Cyg, MR Cyg, QU Cyg, QX Cyg, V346 Cyg, V366 Cyg, V379 Cyg, V382 Cyg, V385 Cyg, V388 Cyg, V398 Cyg, V401 Cyg, V442 Cyg, V477 Cyg, V478 Cyg, V483 Cyg, V488 Cyg, V490 Cyg, V498 Cyg, V548 Cyg, V687 Cyg, V693 Cyg, V700 Cyg, V703 Cyg, V726 Cyg, V749 Cyg, V789 Cyg, V828 Cyg, V836 Cyg, V850 Cyg, V859 Cyg, V877 Cyg, V884 Cyg, V909 Cyg, V912 Cyg, V1034 Cyg, V1047 Cyg, V1061 Cyg, V1141 Cyg, V1171 Cyg, V1401 Cyg, V1411 Cyg, V1414 Cyg, V1417 Cyg, V1425 Cyg, V1437 Cyg, V1815 Cyg, V1877 Cyg, V1918 Cyg, V2021 Cyg, V2181 Cyg, V2247 Cyg, V2263 Cyg, V2278 Cyg, V2282 Cyg, V2477 Cyg, V2545 Cyg, V2546 Cyg, V2619 Cyg, TY Del, BG Del, DM Del, EX Del, FZ Del, Z Dra, RZ Dra, TZ Dra, BH Dra, EX Dra, LN Dra, LZ Dra, MY Dra, V381 Dra, V738 Dra, S Equ, U Gem, RW Gem, AL Gem, AZ Gem, CW Gem, CX Gem, DG Gem, EY Gem, FG Gem, GP Gem, GW Gem, GX Gem, KV Gem, V372 Gem, V404 Gem, V414 Gem, V416 Gem, RX Her, TX Her, UX Her, DI Her, DK Her, HS Her, MX Her, V338 Her, V342 Her, V450 Her, V728 Her, V732 Her, V994 Her, V1055 Her, V1073 Her, V1103 Her, V1302 Her, V1309 Her, V1355 Her, DF Hya, RT Lac, SW Lac, UY Lac, VV Lac, VY Lac, AG Lac, BS Lac, CG Lac, CM Lac, CN Lac, CO Lac, DG Lac, EO Lac, EP Lac, EQ Lac, ER Lac, EU Lac, EX Lac, FL Lac, GX Lac, HR Lac, HX Lac, IL Lac, IP Lac, IU Lac, IZ Lac, MZ Lac, NR Lac, NW Lac, OO Lac, OS Lac, PP Lac, V339 Lac, V342 Lac, V343 Lac, V441 Lac, V455 Lac, WY Leo, BW Leo, CE Leo, FM Leo, XX LMi, XY LMi, SW Lyn, SX Lyn, CN Lyn, DE Lyn, DY Lyn, DZ Lyn, EK Lyn, FI Lyn, FN Lyn, UZ Lyr, AA Lyr, BN Lyr, BV Lyr, DT Lyr, PV Lyr, V401 Lyr, V412 Lyr, V412 Lyr, V417 Lyr, RW Mon, V453 Mon, V454 Mon, V527 Mon, V714 Mon, V456 Oph, V839 Oph, ES Ori, EW Ori, V668 Ori, V2735 Ori, V2759 Ori, V2762 Ori, AT Peg, BB Peg, BN Peg, DI Peg, EH Peg, EU Peg, GP Peg, IP Peg, LX Peg, V396 Peg, V407 Peg, V523 Peg, V560 Peg, V573 Peg, Z Per, RT Per, ST Per, AG Per, BR Per, DK Per, DM Per, IQ Per, IT Per, KN Per, KR Per, V427 Per, V462 Per, V505 Per, V736 Per, V740 Per, V753 Per, V873 Per, V887 Per, V959 Per,

FY Psc, GK Psc, HO Psc, U Sge, V Sge, CP Sge, CW Sge, DK Sge, V365 Sge, V368 Sge, V369 Sge, V374 Sge, U Sct, V384 Ser, V505 Ser, V554 Ser, RW Tau, RZ Tau, TY Tau, AH Tau, AM Tau, AN Tau, CF Tau, CT Tau, CU Tau, EQ Tau, GR Tau, HU Tau, V781 Tau, V1123 Tau, V Tri, RS Tri, AW Tri, BC Tri, CU Tri, W UMa, TY UMa, UY UMa, AA UMa, ES UMa, MS UMa, PZ UMa, QT UMa, V342 UMa, VY UMi, CG Vir, RS Vul, AX Vul, BE Vul, BP Vul, CS Vul, FF Vul, FM Vul, FO Vul, FR Vul, V511 Vul, ASAS J055920+2801.7, ASAS J164358+2617.7, ASAS J191610+1918.3, ASAS J214320+2215.2, ASAS J202741+2145.0, GSC 01643-01880, GSC 01721-01591, GSC 02134-00028, GSC 02135-02603, GSC 02161-01310, GSC 02361-02410, GSC 02409-00305, GSC 02695-03163, GSC 02696-02034, GSC 03619-00047, GSC 03628-00260, GSC 03674-01587, GSC 03944-01954, GSC 04009-00670, GSC 04190-01948, GSC 04339-01166, GSC 04500-00730, NSVS 1272103, NSVS 1824689, NSVS 1841163, NSVS 1916718, NSVS 2432473, NSVS 296349, NSVS 3971593, NSVS 4116978, NSVS 4116978, NSVS 4732433, NSVS 6386566, NSVS 6867860, NSVS 755884, NSVS 8209613, NSVS 8299112, ROTSE1 J175527.44+440654.3, TYC 4038-0836, UCAC3 323-013086, U-B1 1113-0498137, U-B1 1398-0469064, U-B1 1400-0455467, U-B1 1416-0454010, U-B1 1440-0411990, U-B1 1441-0441871, VSX J190933.7+290329.

Jang-Condell, H. 2015, ApJ 799, 147. (9) The likelihood of planet formation in CBs: analysis of α Cen B, γ Cep A, HD 41004A, HD 41004B, HD 188753A, HD 196885A.

Kato, T. et al. (86 authors) 2014, PASJ 66, 90. (1ao, 5bcij, 6ab, 9) Survey of period variations of superhumps in SU UMa-type dwarf novae. VI. The sixth year (2013-2014).

Khruslov, A.V., Kusakin, A.V. 2014, PZP 14, 14. (1a, 6b) Six new variable stars, including five CBs: GSC 4347-01515, USNO-B1.0 1598-0075507, GSC 4525-00721, GSC 5478-00243, USNO-B1.0 1282-0605605.

Kilkenny, D. 2014, MNRAS 445, 4247. (1ao, 5abc) The orbital periods of three sdB EBs: AA Dor, NY Vir and EC 10246−2707.

Kjurkchieva, D., Dimitrov, D. 2015, AN 336, 153. (1ao*, 5abc) LC solutions for six short-period Kepler binaries with contact or over-contact configuration: KID 4921906, 2MASS J19244526+3709418 (KID 1572353), 2MASS J19422478+4355322 (KID 8108785), 2MASS J19524246+4136076 (KID 6309193), 2MASS J19104490+5032158 (KID 12055255), KID 9532219.

Koju, V., Beaky, M.M. 2015, IBVS No. 6127. (1a, 5b) Null correlation between the O'Connell effect and orbital period change: SW Lac, CN And, V502 Oph.

Kubicki, D. 2015, IBVS No. 6133. (5a) CCD times of minima of EB: NY Vir, HW Vir, V470 Cam.

Lacy, C.H.S. 2015, IBVS No. 6130. (5a) New times of minima of EB: BX CMi, V361 Cas, LO Gem, V501 Her, NS Mon, V501 Mon, NP Per, V514 Per, AQ Tau, TYC 1077-828-1, TYC 1323-169-1, TYC 279-35-1, TYC 4985-74-1, TYC 5085-1264-1, TYC 54-504-1, TYC 687-1139-1, TYC 740-8-1, TYC 950-560-1.

Lapukhin, E.G. et al. (5 authors) 2014, PZP 14, 12. (1a, 6c) New variable stars in Lacerta: Area of $2^\circ.3 \times 2^\circ.3$, centred at $\alpha = 22^h50^m$, $\delta = 50^\circ00'$ (2000.0). Part III: USNO-A2.0 1350-17459316, USNO-A2.0 1350-17462675, USNO-A2.0 1350-17469822, USNO-A2.0 1350-17476147, USNO-A2.0 1350-17476709, USNO-A2.0 1350-17479767, USNO-A2.0 1350-17481809, USNO-A2.0 1350-17485503, USNO-A2.0 1350-17491180, USNO-A2.0 1350-17493620, USNO-A2.0 1350-17493882, USNO-A2.0 1350-17495142, USNO-A2.0 1350-17497989, USNO-A2.0 1350-17502797, USNO-A2.0 1350-17505207, USNO-A2.0 1350-17508292, USNO-A2.0 1350-17509346, USNO-A2.0 1350-17510714, USNO-A2.0 1350-17514208, USNO-A2.0 1350-17517479, USNO-A2.0 1350-17520150, USNO-A2.0 1350-17522059,

USNO-A2.0 1350-17522988, USNO-A2.0 1350-17525752, USNO-A2.0 1350-17525777, USNO-A2.0 1350-17526565, USNO-A2.0 1350-17527499, USNO-A2.0 1350-17537214, USNO-A2.0 1350-17539087, USNO-A2.0 1350-17540406, USNO-A2.0 1350-17540419, USNO-A2.0 1350-17547322, USNO-A2.0 1350-17555371, USNO-A2.0 1350-17556451, USNO-A2.0 1350-17561276, USNO-A2.0 1350-17563606, USNO-A2.0 1350-17568949, USNO-A2.0 1350-17572012, USNO-A2.0 1350-17574515, USNO-A2.0 1350-17575743, USNO-A2.0 1350-17582667, USNO-A2.0 1350-17586681, USNO-A2.0 1350-17588175, USNO-A2.0 1350-17589283, USNO-A2.0 1350-17590815, USNO-A2.0 1350-17596466.

Li, M., Halpern, J.P., Thorstensen, J.R. 2014, ApJ 795, 115. (1ao, 6c) Optical counterparts of PSR J1301+0833 and PSR J1628-3205.

Linares, M. 2014, ApJ 795, 72. (2dx) Study of 8 binary ms pulsars with MS donors: PSR J1023+0038, XSS J12270−4859, PSR J1628−32, PSR J1723−28, PSR J1816+4510, PSR J2129−0429AB, PSR J2215+5135, PSR J2339−0533.

Marion, L. et al. (9 authors) 2014, A&A 570, A127. Searching for faint companions with VLTI/PIONIER. II. 92 main sequence stars from the Exozodi survey. Close companions detected for η Hor (HD 16555), θ Ind (HD 202730), η Phe (HD 4150), 90 Tau (HD 29388).

Mignani, R.P. et al. (10 authors) 2014, MNRAS 443, 2223. (6b) Stellar companions to field pulsars detected by cross-correlating positions in multiwavelength sky surveys. Positional associations found for 22 pulsars. In 15 cases earlier identifications of companions are confirmed and for some objects additional spectral information is provided; for 7 pulsars potential new companions are identified: J0613−0200, J1435−6100, J1753−2240, J1822−0848, J1935+1726, J1953+29, J2317+1439.

Mikolajewska, J., Caldwell,N., Shara, M.M. 2014, MNRAS 444, 586. (1ao*, 2co, 6b) Discovery and spectrographic characterization of 35 symbiotic binaries in M31 (31 confirmed, 4 candidates), M31SyS J: 003846.16+400717.0, 003857.17+403132.2, 003923.79+400543.4, 003932.01+401224.7, 003951.85+402153.8, 004005.96+401604.3, 004021.10+404501.1, 004059.40+405003.1, 004117.11+404524.1, 004147.71+405737.1, 004155.61+410846.7, 004156.21+410735.0, 004216.70+404415.7, 004233.17+412720.7, 004235.59+410148.0, 004237.49+403813.2, 004241.96+415656.4, 004319.98+415137.5, 004322.50+413940.9, 004323.68+413733.6, 004334.79+413447.9, 004335.01+414358.2, 004349.54+413855.9, 004353.59+415323.3, 004358.20+412850.9, 004359.52+410253.5, 004411.71+411336.0, 004421.89+415125.6, 004432.09+411940.8, 004433.74+414402.8, 004440.50+412052.2, 004445.03+414156.5, 004521.55+412557.3, 004534.07+413049.0, 004545.41+412851.6.

Moe, M., Di Stefano, R. 2015, ApJ 801, 113. (1a, 5c) New class of EBs With B-type primaries and irradiated extreme mass-ratio pre-MS secondary in LMC: 22 EBs, identified by OGLE III numbers.

Nelson, R.H. 2015, IBVS No, 6131. (5a) CCD minima for selected EBs in 2014: AD And, GN Boo, HH Boo, PU Boo, V339 Boo, V403 Cam, V405 Cam, V473 Cam, V474 Cam, V517 Cam, EH Cnc, HN Cnc, IL Cnc, IT Cnc, UZ CMi, DX CVn, EY CVn, GM CVn, V608 Cas, V1137 Cas, LO Com, CV Cyg, V1034 Cyg, V1941 Cyg, V2545 Cyg, LS Del, DG Dra, FX Dra, NV Dra, OX Dra, SX Gem, V348 Gem, V404 Gem, V405 Gem, V435 Gem, V1023 Her, V1094 Her, V1302 Her, UW Hya, AV Hya, SW Lac, UZ Leo, AP Leo, RT LMi, FI Lyn, V1833 Ori, V1847 Ori, V1848 Ori, IM Per, V0432 Per, V0873 Per, EQ Tau, V1295 Tau, AV Tri, HH UMa, KM UMa, V0354 UMa, V0354 UMa, AW Vir, GSC 1721-114, GSC 2837-134.

Nie, J.D., Wood, P.R. 2014, AJ 148, 118. (2a) RV curves of ellipsoidal red giant binaries in LMC, with OGLE numbers: 050107.08692036.9, 050222.40691733.6, 050254.15692013.8, 050258.71684406.6, 050334.97685920.5, 050350.55691430.2, 050353.41690230.8, 050438.97693115.3, 050454.49690401.2, 050504.70683340.3, 050512.19693543.5, 050554.57683428.5, 050558.70682208.9, 050604.99681654.9, 050610.03683153.0, 050651.36695245.4, 050659.79692540.4, 050709.66683824.8, 050720.82683355.2,

050758.17685856.3, 050800.52685800.8, 050843.38692815.1, 050900.02690427.2, 050948.63690157.4, 051009.20690020.0, 051050.92692228.0, 051101.04691425.1, 051200.23690838.4, 051205.44684559.9, 051220.63684957.8, 051256.36684937.5, 051345.17692212.1, 051347.73693049.7, 051515.95685958.1, 051620.47690755.3, 051621.07692929.6, 051653.08690651.2, 051738.19694848.4, 051746.55691750.2, 051818.84690751.3, 051845.02691610.5, 052012.26694417.5, 052029.90695934.1, 052032.29694224.2, 052048.62704423.5, 052115.05693155.1, 052117.49693124.8, 052119.56710022.1, 052203.16704507.8, 052228.85694313.7, 052238.43691715.1, 052324.57692924.2, 052422.28692456.2, 052425.52695135.2, 052438.19700435.9, 052438.40700028.8, 052458.88695107.0, 052510.82700123.9, 052513.34693025.2, 052542.11694847.4, 052554.91694137.4, 052703.65694837.7, 052833.50695834.6, 052928.90701244.2, 052948.84692318.7, 052954.82700622.5, 053141.27700647.1, 053156.08693123.0, 053202.44693209.2, 053219.66695805.0, 053226.48700604.7, 053337.07703111.7, 053338.94694455.2, 053356.79701919.6, 053438.78695634.1, 053733.21695026.9, 053946.88704257.8, 054006.47702820.4, 054258.34701609.2, 054736.16705627.2.

Prodan, S., Murray, N. 2015, ApJ 798, 117. (1x*, 2x*, 5bj, 8ac) Dynamics of ultra-compact x-ray binaries: 4U 1850−087, 4U 0513−40, and M15 X-2.

Pyrzas, S. et al. (15 authors) 2015, MNRAS 447, 691. (1ao, 5bcg, 6b) Discovery of seven ZZ Cet stars in detached WD plus main-sequence binaries.

Reig, P., Fabregat, J. 2015, A&A 574, A33. (1ao) Long-term variability of HMXBs. I. Photometry. V635 Cas, V662 Cas, BQ Cam, V725 Tau, IGR J01363+6610, V831 Cas (RX J0146.9+6121), IGR J01583+6713, RX J0240.4+6112, RX J0440.9+4431, IGR J06074+2205, AX J1845.0−0433, 4U 1907+09, XTE J1946+274, KS 1947+300, V2246 Cyg (EXO 2030+375), GRO J2058+42, SAX J2103.5+4545, IGR J21343+4738, 4U 2206+54, SAX J2239.3+6116.

Ren, J. J. et al. (9 authors) 2014, A&A 570, A107. WD-MS binaries from LAMOST: the DR1 catalogue.

Riddle, R.L. et al. (15 authors) 2015, ApJ 798, 4. (1i) A survey of the high-order multiplicity of nearby solar-type binaries with Robo-AO, 214 secondaries observed.

Santucci, R.M. et al. (8 authors) 2015, ApJ 801, 116. (1o*i*, 2u*) 8001 blue-straggler stars in the thick disk and halo of the galaxy.

Scaringi, S., Maccarone, T.J., Middleton, M. 2014, MNRAS 445, 1031. (1aox, 5bcgi, 6d, 8a) Reversibility of time series: revealing the hidden messages in the x-ray binary Cyg X-1 and the CVs V1504 Cyg, MV Lyr and 2MASS J19241081+4459348 (KIC 8751494).

Schroeder, J., Halpern, J. 2014, ApJ 793, 78. (1ao, 6c) Attempt to find optical counterparts of 8 newly discovered binary ms pulsars; detection and modelling of J1810+1744, J1816+4510, J2214+3000, J2215+5135; no detection of J0023+0923, J1745+1017, J2047+1053, J2234+0944.

Scibelli, S. et al. (4 authors) 2014, ApJS 215, 24. (2oi) 1026 blue stragglers, 13 CVs, 129 WD-M dwarf binaries discovered in SDSS DR8.

Shafter, A.W. et al. (11 authors) 2015, ApJS 216, 34. (1*) 118 recurrent novae found in M31.

Silva, J.V.S. et al. (6 authors) 2014, AJ 148, 83. (2d, 5gh) Spectroscopy and abundance analysis of binaries, including yellow stragglers, in three open clusters: NGC 2360, NGC 3680, NGC 5822.

Skinner, J.N., Thorstensen, J.R., Lépine, S. 2014, AJ 148, 115. (6a) Catalogue of CVs whose high

proper motions have been determined by SUPERBLINK survey; see also PM I 03338+3320.

Southworth, J. et al. (4 authors) 2015, A&A 573, A61. (1ao, 2do, 5ab, 6b) Orbital periods of CVs identified by the SDSS. IX. NTT photometry of eight eclipsing and three magnetic systems. New eclipsing CVs: SDSS J075653.11+085831.8, SDSS J093537.46+161950.8, SDSS J105754.25+275947.5, CSS J132536+210037. Known eclipsing CVs: SDSS J075059.97+141150.1, SDSS J092444.48+080150.9, SDSS J100658.40+233724.4, CSS J112634−100210. Three magnetic CVs: SDSS J092122.84+203857.1, SDSS J132411.57+032050.4, SDSS J133309.19+143706.9.

Stancliffe, R.J. et al. (4 authors) 2015, A&A 575, A117. (8c) Confronting uncertainties in stellar physics: calibrating convective overshooting with EBs: V539 Ara, AY Cam, SZ Cen, WX Cep, EI Cep, TZ For, AI Hya, V364 Lac, V1031 Ori, AQ Ser, CV Vel.

Sutton, A.D., Done, C., Roberts, T.P. 2014, MNRAS 444, 2415. (2oxd, 5i) X-ray and optical spectral study of 5 ultraluminous x-ray binaries (ULX) with stellar-mass BH components; evidence for irradiated ADs: NGC 253 ULX2, NGC 1313 X-2, NGC 2403 X-1, M81 X-6, NGC 4190 ULX1.

Szkody, P. et al. (7 authors) 2014, AJ 148, 63. (1ao, 2ad) Photometry and spectroscopy of potential CVs from SDSS and CRTS: V1363 Cyg, RXS J015017+375614, SDSS J121913+204938, SDSS J134441+204408, SDSS J160450+414328, SDSS J160501+203056, SDSS J165951+192745, SDSS J205252−023952, SDSS J214140+050729, SDSS J215427+155938, SDSS J215815+094709, and (identified by CRTS numbers) 000025+332543, 001133+045122, 001538+263657, 005153+204017, 005825+283004, 010411−031341, 015017+375614, 020633+205707, 034420+093006, 035318−034847, 042218+334215, 050124+203818, 051458+083503, 051815−024503, 064729+495027, 065037+413053, 075418+381225, 075648+305805, 075713+222253, 113215+624900, 122405+184102, 123255+222209, 134441+204408, 150240+333423, 151915+064529, 174033+414756, 191501+071847, 210016−024258, 215427+155713, 215636+193242, 215815+094709, 224348+080927, 232551−014024, 233849+281955, 235503+420010.

Terzioglu, Z. et al. (14 authors), 2015, IBVS No. 6128. (5a) Minima times of EB: V1713 Aql, HH Boo, V1046 Cas, EF Cep, EG Cep, TW CrB, V859 Cyg, V882 Per, V384 Ser, ASAS J013630+0150.3, ASAS J205847+2731.9, ASAS J211538+2454.2, ASAS J212915+1604.9, ASAS J225956+1418.2, GSC 2140-1485, GSC 2750-0854, TYC 2220-704-1, TYC 3069-1654-1.

Tetzlaff, N. et al. (4 authors) 2014, AN 335, 981. (2ao, 6b) Discovery of 7 SBs among 30 candidate runaway stars: HIP 8414, HIP 9470, HIP 98443, HIP 101219, HIP 103533, HIP 104581, HIP 113787; orbital solutions for HIP 8414, HIP 9470, HIP 101219, HIP 113787.

Tokovinin, A., Pribulla, T., Fischer, D. 2015, AJ 149, 8. (2a, 5c, 6b) RVs of southern visual multiple stars: new binaries HD 41742B, HD56593C, HD 122613AB; confirm triples HD 18198, HD 108938, binary BD −15°4723; orbits for HD 104471 Aa,Ab, and HD 210349 Aa,Ab; revised orbit for HD 104471 AB.

Warwick, R.S. 2014, MNRAS 445, 66. (1ax, 5cg, 6d, 8a) Sample of low-luminosity galactic x-ray sources: sample includes 46 sources associated with coronally active SBs and 16 associated with CVs.

Williams, B.F. et al. (9 authors) 2014, MNRAS 443, 2499. (1x*, 2abco, 6b) Optical spectroscopy of 20 candidate counterparts of 17 x-ray sources in the direction to, or in, M31 suggests 17 stellar counterparts, 8 of which are of OB-type with hard x-ray spectra making them good HMXB candidates.

Zamanov, R. et al. (5 authors) 2015, AN 336, 189. (1ao, 5i) Flickering observations (UBV) of two recurrent novae at quiescence and four other CVs suggest that different flickering characteristics of

symbiotic recurrent novae (RS Oph, T CrB) and other CVs (KR Aur, MV Lyr, V794 Aql, V425 Cas) are likely connected with accretion rate and mass of WD.

Zasche, P. et al. (6 authors) 2014, A&A 572, A71. (1ao, 5af) Apsidal motion and a LC solution for eighteen SMC eccentric EBs.

Zolotukhin, I.Y., Revnivtsev, M.G. 2015, MNRAS 446, 2418. (1i*, 5cg) Upper flux limits for the systems IGR J17464−2811, SAX J1747.0−2853, AX J1754.2−2754, IGR J17597−2201, IGR J18134−1636, IGR J18256−1035 and Ser X-1 and constrains on their nature .

Proceedings of Conferences, Symposia, and Monographs

Observing techniques, instrumentation and science for metre-class telescopes, eds. *Th. Pribulla, R. Komzik*, 2014, Contr. Ast. Obs. Skalnaté Pleso (CoSka), 43, no. 3, includes several papers on a wide range of types of CBs.

IAU Commission 42

BIBLIOGRAPHY OF CLOSE BINARIES

No. 100, June 2015

Editor-in-Chief: C.D. Scarfe

Department of Physics and Astronomy
University of Victoria
Victoria, B.C., V8W 3P6, Canada

Phone: +01 250 721-7749
Fax: +01 250 721-7715
scarfe@uvic.ca