International Astronomical Union
Commission 42

BIBLIOGRAPHY OF CLOSE BINARIES

No. 97

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 September 15, 2013

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

Several entries of this issue use the abbreviation:

OAP — Odessa Astronomical Publications (issue of the Odessa Astronomical Observatory of the Odessa State University, Ukraine), Astroprint Publishing Company, Ukraine

Individual Stars

EP And	*Lee, J.W., Hinse, T.C., Park, J.-H.* 2013, AJ 145, 100. (1ao, 5abij) Two probable companions to W UMa system detected by light-time effect.
V479 And	*González-Buitrago, D. et al.* (8 authors) 2013, A&A 553, 28. (1aoi, 2bdox, 3ao, 5beg)
LL Aqr	*Southworth, J.* 2013, A&A 557, 119. (5c, 5e) Solar-type EB system.
DO Aql (Nova 1925)	*Schaefer, B.E.* 2013, Observatory 133, 227. (1co*) Not the star of Bethlehem.
OO Aql	*İçli, T. et al.* (4 authors) 2013, AJ 145, 127. (1ao, 2a*, 5abcde) Two distant companions detected by light-time effect.
V1333 Aql (Aql X-1)	*Asai, K. et al.* (9 authors) 2013, ApJ 773, 117. (1x, 2x) Propeller effect interpretation of LCs. *Campana, S., Coti Zelati, F., D'Avanzo, P.* 2013, MNRAS 432, 1695. (1x, 5cegi) Mining the long-term x-ray LC. *Matsuoka, M., Asai, K.* 2013, PASJ 65, 26. (1x, 5i) Simplified picture of LMXB based on data from Aquila X-1 and 4U 1608−52.
V1413 Aql	*Esipov, V.F. et al.* (4 authors) 2013, AstL 39, 458. (2cb, 5i) Spectral evolution during new activity cycle.
V1487 Aql (GRS 1915+105)	*Belloni, T.M., Altamirano, D.* 2013, MNRAS 432, 10. (1x*, 5bcgi) High-frequency QPOs. *Belloni, T.M., Altamirano, D.* 2013, MNRAS 432, 19. (1x, 5bcgi) Discovery of a 34 Hz QPO. *Hurley, D.J. et al.* (4 authors) 2013, MNRAS 430, 1832. (2ai*, 5bi) Determination of RV amplitude of galactic BH system with largest mass function is affected by CO emission from AD. *Steeghs, D. et al.* (6 authors) 2013, ApJ 768, 185. (2aci, 5ef) Lower mass for BH than previously thought. *Yan, S-P. et al.* (5 authors) 2013, MNRAS 434, 59. (1r*x*, 5cgi) A statistical study on the low-frequency QPOs.
V801 Ara (4U 1636−53)	*Sanna, A. et al.* (6 authors) 2013, MNRAS 432, 1134. (1x, 5bcgi, 8a) Broad emission line in the spectrum. *Ji, L. et al.* (9 authors) 2013, MNRAS 432, 2773. (1gx, 5bcg, 8a) X-ray bursts as a probe of the corona. *de Avellar, M.G.B. et al.* (4 authors) 2013, MNRAS 433, 3453. (1x, 5bcg) Time lags of the kilohertz QPOs.
V821 Ara (GX 339-4)	*Allured, R. et al.* (4 authors) 2013, ApJ 774, 135. (1x, 2x) Observations of hard state between outbursts.
ϵ Aur	*Griffin, R.E., Stencel, R.E.* 2013, PASP 125, 775. (2doi, 2do*, 5ghij) Properties of components, and discovery of mass-transfer stream. *Sadakane, K. et al.* (5 authors) 2013, PASJ 65, L1. (2c, 5g) Disk origin of narrow metallic absorption lines observed during the 2009-2011 eclipse.
RR Cae	*Ribeiro, T. et al.* (6 authors) 2013, A&A 556, 34. (5i) Accretion and activity on post-common-envelope binary.
Y Cam	*Khaliullin, Kh.F., Khaliullina, A.I.* 2013, ARep 57, 517. (1*, 5abcj) Long-term orbital period variations.
LU Cam	*Scaringi, S. et al.* (8 authors) 2013, MNRAS 431, 2535. (1ao, 5cgi, 8a) Discovery of Fourier-dependent time lags.

WY Cnc	*Chen, W.-C.* 2013, 65, L3. (8ad) On the origin of orbital period change: a genuine angular-momentum loss?
EU Cnc	*Williams, K.A.. et al.* (7 authors) 2013, AJ 145, 129. (2ado, 3bo) Estimate of mass of progenitor of WD in polar in M67.
Z CMa	*Siwak, M. et al.* (9 authors) 2013, MNRAS 432, 194. (1ao, 5bcg) Photometric variability by *MOST* satellite.
UZ CMi	*Qian, S.-B. et al.* (8 authors) 2013, AJ 145, 91. (1aoi, 5abcj) Steady period increase suggests mass-transfer in W UMa system.
η Car	*Teodoro, M. et al.* (5 authors) 2013, ApJ 773, L16. (2o) Detection of compression of primary's stellar wind.
B Cas (SN 1572)	*Liu, Z.W. et al.* (8 authors) 2013, A&A 554, 109. (8c) Surviving companion after type Ia SN explosions in the WD+MS scenario.
V615 Cas (LS I +61°303)	*Ackermann, M. et al.* (129 authors) 2013, ApJ 773, L35. (1g, 2g) γ-ray variability and the superorbital period. *Massi, M., Jaron, F.* 2013, A&A 554, 105. (4cr) Long-term periodicity as beat frequency between orbital and precessional rate. *Stroh, M., Falcone, A.D.* 2013, ApJS 207, 28. (1x, 2x) X-ray monitoring of γ-ray sources of interest.
DY Cen	*Rao, N.K. et al.* (4 authors) 2013, MNRAS 431, 159. (1ao*, 2aoc, 5ghj) Hot R CrB star is component of SB1 binary; rapid changes of stellar temperature and parameters of nebula around it detected.
V822 Cen (Cen X-4)	*Cackett, E.M. et al.* (6 authors) 2013, MNRAS 433, 1362. (1xu, 5cgi) An x-ray-UV correlation during quiescence.
V842 Cen (Nova 1986)	*Sion, E.M. et al.* (6 authors) 2013, ApJ 772, 116. (2ou) Multiwavelength observations of old nova.
IL Cep	*Ismailov, N.Z. et al.* (4 authors) 2013, AstBu 68, 196. (2ac, 5cg) Spectral variability due to companions?
V380 Cep (HD 200775)	*Benisty, M. et al.* (18 authors) 2013, A&A 555, 113. (2c) Enhanced Hα activity at periastron in massive young SB.
RS Cha	*Woollands, R.M. et al.* (5 authors) 2013, MNRAS 432, 327. (2ao, 5bdeg) Spectroscopic orbital analysis reveals a third component.
DX Cha (HD 104237)	*Garcia, P.J.V. et al.* (9 authors) 2013, MNRAS 430, 1839. (2ai, 4c, 5i) VLTI spectrointerferometry of pre-main-sequence Herbig Ae binary with circumbinary disk and jet.
BR Cir (Cir X-1)	*Armstrong, R.P. et al.* (13 authors) 2013, MNRAS 433, 1951. (1rx, 5bcgij) A return to strong radio flaring.
IT Com	*Oláh, K. et al.* (5 authors) 2013, Astr. Nachr. 334, 625. (1aoi*, 5bcek) Long-term optical and IR photometry of early K giant SB1 system used to find rotational period and possible period change and for fitting SED; evidence for magnetic star spot activity.
MR Com	*Qian, S.-B. et al.* (8 authors) 2013, AJ 146, 38. (1ao, 5abc) Contact binary with small mass ratio.
TY CrA	*Vaňko, M. et al.* (6 authors) 2013, MNRAS 431, 2230. (1aoi, 5abceg) Derivation of absolute dimensions and masses.
α CrB	*Nouh, M.I. et al.* (4 authors) 2013, JApA 34, 193. (2a, 5dk) Spectroscopic analysis of EB.
T CrB	*Schaefer, B.E.* 2013, Observatory 133, 81. (1do*) No eruption in 1842, according to Herschel's original observation record.

AW CrB	*Broens, E.* 2013, MNRAS 430, 3070. (1ao, 5abcg) Orbital period and period increase of over-contact W UMa system with extreme mass ratio $q = 0.1$ determined; asymmetric LC explained by spot modelling.
SV Crt (HD 98088)	*Folsom, C.P. et al.* (6 authors) 2013, MNRAS 431, 1513. (2ao*, 3b, 5dh) Spectropolarimetric analysis of chemically peculiar Ap + Am SB2 system.
EP Cru	*Albrecht, S. et al.* (5 authors) 2013, ApJ 767, 32. (2ao,5ef) Study of tidal alignment.
SS Cyg	*Miller-Jones, J.C.A. et al.* (6 authors) 2013, Science 340, 950. (4cr) Accurate geometric distance to the dwarf nova vindicates AD theory. *Nelan, E.P., Bond, H.E.* 2013, ApJ 773, L26. (4a) HST-redetermined trig. parallax.
V401 Cyg	*Zhu, L.-Y. et al.* (7 authors) 2013, AJ 146, 28. (1ao, 5ab) Light-time orbit for tertiary.
V1341 Cyg (Cyg X-2)	*Cabot, S.H.C., Wang, Q.D., Yao, Y.* 2013, MNRAS 431, 511. (1x, 2uxc) Variable O VII Kα, O VI Kα and N V emission lines provide constraints on NS accretion and x-ray heating of companion.
V1357 Cyg (Cyg X-1)	*Del Santo, M. et al.* (5 authors) 2013, MNRAS 430, 209. (1x, 2dx, 5i) Study of accretion flow parameters and coronal magnetic field. *Don, A., Gai, N., Zhang, F.* 2013, ChA&A 37, 139. (1x*, 5i) Study of periodicity of hardness ratio of the x-ray binary as a BH candidate. *Grinberg, V. et al.* (17 authors) 2013, A&A 554, 88. (2dx) Long term variability in HMXB: state definitions with all-sky monitors. *Sabatini, S. et al.* (22 authors) 2013, ApJ 766, 83. (1x,2g) Multi-year observations in hard and soft states. *Skipper, C.J., Mc Hardy, I.M., Maccarone, T.J.* 2013, MNRAS 434, 574. (1x, 5cgi, 8a) On the origin of the hard- and soft-state emission components. *Yamada, S. et al.* (6 authors) 2013, PASJ 65, 80. (2dx, 5ij) Evidence for a cool disk and inhomogeneous corona from wide-band temporal spectroscopy with Suzaku. *Yamada, S. et al.* (6 authors) 2013, ApJ 767, L34. (2dx) Rapid spectral changes in low/hard state. *Yamada, S. et al.* (10 authors) 2013, ApJ 767, L35. (2cx) Highly ionized Fe absorption line.
V1500 Cyg (Nova 1975)	*Harrison, T.E., Campbell, R.D., Lyte, J.E.* 2013, AJ 146, 37. (1i, 2di, 5g) Cyclotron emission contributes part of IR light, due to magnetic WD.
V1504 Cyg	*Osaki, Y., Kato, T.* 2013, PASJ 65, 50. (1ao*, 5i, 8d) Cause of the superoutburst in SU UMa stars revealed by Kepler LC.
V1521 Cyg (Cyg X-3)	*Bayerwald, P., Guetta, D.* 2013, ApJ 773, 159. (1x*g*, 8ad) Estimation of neutrino flux using AGILE data. *Kim, J.S. et al.* (6 authors) 2013, ApJ 772, 41. (1r) VLBI observation during transition from soft to hard x-ray state.
V2468 Cyg (Nova 2008)	*Tarasova, T.N.* ARep 57, 95. (2cd, 5cehj) Spectral variations of nova during development of outburst.
μ Eri	*Jerzykiewicz, M. et al.* (18 authors) 2013, MNRAS 432, 1032. (1ao, 2abc, 5bcdeg) An orbit, the slowly pulsating B-star (SPB) component's fundamental parameters and the SPB frequencies.
FG Gem	*Zhang, J., Qian, S.B.* 2013, AJ 145, 156. (1a, 5abc) Need RVs to constrain solution.

PZ Gem (HD 45314)	*Rauw, G. et al.* (5 authors) 2013, A&A 555, 9. (1ao, 2a) New γ-Cas analogue among Oe stars.
AM Her	*Dai, Z., Quan, S., Linha, L.* 2013, ApJ 774, 153. (1ad, 5ab) Sinusoidal period variation discovered and transient events over 34 years.
DI Her	*Philippov, A., Rafikov, R.R.* 2013, ApJ 768, 112. (5f) Analysis of spin-orbit misalignment.
V1135 Her	*Sipahi, E. et al.* (5 authors) 2013, RMxAA 49, 239. (1ao, 2ado, 5cde) Eclipsing SB2 including anomalous Cepheid.
EQ Lyn	*Mukadam, A.S. et al.* (22 authors) 2013, AJ 146, 54. (1ao, 2ao, 2du, 5g) Alternating intervals of pulsation and superhumps since 2006 outburst.
EZ Lyn	*Szkody, P. et al.* (6 authors) 2013, AJ 145, 121. (1au, 2du, 5g) HST spectrum matches 13,000K WD, periodicities detected in LC.
β Lyr	*Mennickent, R.E., Djurašević, G.* 2013, MNRAS 432, 799. (1ao, 5cegij, 8ac) Physical parameters and evolutionary status. *Nazarenko, V.V., Glazunova, L.V.* 2013, ARep 57, 294. (5ij, 8d) Three-dimensional hydrodynamical modelling of the two-component wind and AD.
MV Lyr	*Scaringi, S. et al.* (8 authors) 2013, MNRAS 431, 2535. (1ao, 5cgi, 8a) Discovery of Fourier-dependent time lags.
BO Mon	*Reed, P.A., Yuhas, B.J.* 2013, AJ 145, 119. (2ao, 5abcj) Possible mass transfer and magnetic activity in Algol system.
KQ Mon	*Wolfe, A., Sion, E.M., Bond, H.E.* 2013, AJ 145, 168. (2dou, 5ghi) Likely member of SW Sex class.
V578 Mon	*Garcia, E.V., Stassun, K.G., Torres, G.* 2013, ApJ 769, 114. (5ce) Redetermination of the radii.
V753 Mon	*Qian, S.-B. et al.* (8 authors) 2013, ApJS 207, 22. (1a, 5abc) LC solution and quadratic-sinusoidal period study may reveal third body.
V777 Mon (HD 44179)	*Thomas, J.D. et al.* (7 authors) 2013, MNRAS 430, 1230. (2ao) Hα line profile analysis confirms bipolar jet in SB1 binary with post-AGB primary.
V959 Mon (Nova 2012)	*Ribeiro, V.A.R.M., Munari, U., Valisa, P.* 2013, ApJ 768, 49. (2cx) Optical morphology, inclination, and expansion velocity of shell. *Shore, S.N. et al.* (7 authors) 2013, A&A 553, 123. (2cdo, 5g) The spectroscopic evolution of the γ-ray emitting classical nova: I. Implications for the ONe subclass of classical novae.
η Mus	*Budding, E., Butland, R., Blanckford, M.* 2013, PASA 30, 37. (1ao, 2a, 5cde) Multiple star.
QX Nor (4U 1608−522)	*Asai, K. et al.* (9 authors) 2013, ApJ 773, 117. (1x, 2x) Propeller effect interpretation of LCs. *de Avellar, M.G.B. et al.* (4 authors) 2013, MNRAS 433, 3453. (1x, 5bcg) Time lags of the kilohertz QPOs. *Matsuoka, M., Asai, K.* 2013, PASJ 65, 26. (1x, 5i) Simplified picture of LMXB based on data from Aql X-1 and 4U 1608−52.
V2134 Oph (MXB 1659−29)	*Cackett, E.M. et al.* (8 authors) 2013, ApJ 774, 131. (1x, 2x) A change in the quiescent spectrum.
V2253 Oph	*Oláh, K. et al.* (5 authors) 2013, Astr. Nachr. 334, 625. (1aoi*, 5bcek) Long-term optical and IR photometry of early K giant SB1 system used to find rotational period and possible period change and for fitting SED; evidence for magnetic star spot activity.

V2523 Oph (Hen 3-1341)	*Stute, M. et al.* (4 authors) 2013, A&A 554, 56. (2dx, 5i) Detection of x-rays from the jet-driving symbiotic star. *Tomov, N., Tomova, M.* 2013, IBVS No. 6055. (2d, 5i) Bipolar ejection from the symbiotic binary.
ζ Ori A	*Hummel, C.A. et al.* (6 authors) 2013, A&A 554, 52. (2ao, 2du, 4co, 5d) Dynamical mass of the O-type supergiant.
FU Ori	*Siwak, M. et al.* (9 authors) 2013, MNRAS 432, 194. (1ao, 5bcg) Photometric variability by *MOST* satellite.
V1852 Ori (RX J0513.1+0851)	*Ruíz-Rodríguez, D. et al.* (5 authors) 2013, AJ 145, 162. (2aoi, 5d) Secondary detected in IR spectrum of pre-MS binary.
V2751 Ori (RX J0539.9+0956)	*Ruíz-Rodríguez, D. et al.* (5 authors) 2013, AJ 145, 162. (2aoi, 5d) Secondary detected in IR spectrum of pre-MS binary.
LS Peg	*Semena, A.N. et al.* (7 authors) 2013, AstL 39, 227. (1ao*, 5i) Constraints on accretion column parameters from the power spectrum of optical LC of IP.
X Per	*Mathew, B. et al.* (4 authors) 2013, AJ 145, 158. (1ai, 2ai, 5gi) Be-x-ray binary observed in bright IR phase.
AX Per	*Kondratyeva, L., Rspaev, F.* 2013, IBVS No. 6056. (1a) New outburst in 2012.
LX Per	*Kang, Y.-W. et al.* (5 authors) 2013, AJ 145, 167. (2doi, 1bo*, 5cdghj) Chemical composition shows evidence for accretion.
V505 Per	*Baugh, P. et al.* (4 authors) 2013, PASP 125, 753. (2do, 5gh) Suggest rotational origin of Li dip.
ϕ Phe	*Pourbaix, D. et al.* (4 authors) 2013, A&A 556, 45. (6b) Multiplicity revisited.
DZ Psc	*Yang, Y.G. et al.* (5 authors) 2013, AJ 146, 35. (1ao, 5abc) Low mass-ratio contact binary with possible third body.
T Pyx	*Sokoloski, J.L. et al.* (4 authors) 2013, ApJ 770, L33. (2ioux) Observations of light echo determine nature of recurrent nova. *Toraskar, J. et al.* (4 authors) 2013, ApJ 768, 48. (8b) Modelling of the nova shell.
V1980 Sgr	*Ratajczak, M. et al.* (4 authors) 2013, MNRAS 433, 2357. (1ao*, 2a, 5abcdeg) Orbital and physical parameters.
V4580 Sgr (SAX J1808.4−3658)	*in't Zand, J.J.M. et al.* (9 authors) 2013, A&A 553, 83. (2dx, 5i) Bright thermonuclear x-ray burst in the accretion-powered ms PSR in the LMXB.
δ Sco	*Jones, C.E. et al.* (7 authors) 2013, AJ 145, 142. (1ao, 5gi) Long-term study of inner region of disk of Be binary.
U Sco	*Takei, D. et al.* (7 authors) 2013, ApJ 769, L4. (2dx) Detection of x-ray eclipse.
AK Sco	*Gomez de Castro, A.I. et al.* (5 authors) 2013, ApJ 766, 62. (1ax, 2du) Evidence of tide-driven filling of the inner gap in the disk.
V728 Sco (Nova 1862)	*Tappert, C. et al.* (4 authors) 2013, MNRAS 431, 92. (1ao, 2aod, 5abcdi) Old classical nova recovered 150 years after outburst; photometric and spectroscopic observations and Doppler tomography suggest a high inclination eclipsing system with low mass-transfer rate.
V1280 Sco	*Naito, H. et al.* (4 authors) 2013, PASJ 65, 37. (2c, 5j) Discovery of metastable He absorption lines.

MM Ser (Ser X-1) — *Comelisse, R. et al.* (4 authors) 2013, MNRAS 432, 1361. (2c, 5bcegi, 8a) A 2h periodic variation due to orbital motion.

V725 Tau (A0535+26) — *Maitra, C., Paul, B.* 2013, ApJ 771, 96. (1a, 2x) Suzaku observations of pulse-phase resolved spectra; analysis of cyclotron absorption features.
Moritani, Y. et al. (11 authors) 2013, PASJ 65, 83. (2da, 5dgij) Precessing warped Be disk triggering the giant outbursts in 2009 and 2011.
Müller, D. et al. (4 authors) 2013, A&A 552, A81. (2dx, 5i) The April 2010 outburst: probing the accretion regime at work.
Rothschild, R. et al. (10 authors) 2013, ApJ 770, 19. (2dx) Observations in quiescence.

V1098 Tau (LkCa3) — *Torres, G. et al.* (8 authors) 2013, ApJ 773, 40. (1a, 2a, 5d) Discovery of pre-MS quadruple system.

V1147 Tau — *Patel, M.K. et al.* (5 authors) 2013, MNRAS 430, 2154. (1aox*, 2ao, 3b, 5bcg) Long-term photometric, spectroscopic, polarimetric and x-ray observations of active K5 V binary with spots and flares.

SU UMa — *Imada, A. et al.* (8 authors) 2013, PASJ 65, 87. (1ao, 5i) OAO/MITSuME photometry of dwarf novae. I. SU UMa.

ER UMa — *Zemko, P., Kato, T., Shugarov, S.Y.* 2013, 65, 53. (1ao*, 5i) Detection of change in supercycles.

IO UMa — *Soydugan, F. et al.* (4 authors) 2013, MNRAS 432, 3278. (1ao, 2a, 5abcdeg) Photometric and spectroscopic study.

δ Vel — *Kervella, P. et al.* (5 authors) 2013, A&A 552, A18. (4bc) Differential astrometry with VLT/NACO at the 100 microarcsecond level.

DQ Vel — *Barría, D. et al.* (8 authors) 2013, A&A 552, A63. (1oi, 2ac, 5bdk) Fundamental stellar and AD parameters of the EB.

DX Vel — *Volkov, I.M. et al.* (10 authors) 2013, IBVS No. 6066. (1a, 2b, 5a) Period changes in EB.

GP Vel (Vel X-1) — *Doroshenko, V. et al.* (8 authors) 2013, A&A 554, 37. (2dx, 5gij) Footprints in the wind traced with MAXI.
Odaka, H. et al. (6 authors) 2013, ApJ 767, 70. (2dx) Short-term x-ray variability.

α Vir — *Palate, M. et al.* (5 authors) 2013, A&A 556, 49. (2c) Spectral modelling.

IS Vir — *Oláh, K. et al.* (5 authors) 2013, Astr. Nachr. 334, 625. (1aoi*, 5bcek) Long-term optical and IR photometry of early K giant SB1 system used to find rotational period and possible period change and for fitting SED; evidence for magnetic star spot activity.

22 Vul — *Burnashev, V.I., Burnasheva B.A.* 2013, BCrAO 109, 1. (1b*, 2bd, 5c) Absolute spectrophotometry during the eclipse of 1990.

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

HD 22128 — *Folsom, C.P., Wade, G.A., Johnson, N.M.* 2013, MNRAS 433, 3336. (3b, 5cgh) Does it contain Ap or Am stars?

HD 36402 (BAT 99-38) — *Williams, P.M. et al.* (4 authors) 2013, MNRAS 431, 1160. (1ai, 2d, 5j) Variable dust emission of (WC4 + O) + O8 I triple WR system with colliding winds detected.

HD 37737 — *Alexeeva, S.A. et al.* (5 authors) 2013, AstBu 68, 169. (2ad, 5dg) Orbit and physical properties of binary O-type star.

HD 44179	(see V777 Mon)
HD 45314	(see PZ Gem)
HD 49798 (RX J0648.0−4418)	*Mereghetti, S. et al.* (7 authors) 2013, A&A 553, 46. (2dx, 5kj) X-ray emission from the LMXB luminous O-type subdwarf and compact companion.
HD 52721	*Pogodin, M.A. et al.* (7 authors) 2013, BCrAO 109, 23 (1, 2ac, 5cgi, 6b) Photometric and spectroscopic investigation of B2e Herbig star shows it to be EB.
HD 56495	*Folsom, C.P., Wade, G.A., Johnson, N.M.* 2013, MNRAS 433, 3336. (3b, 5cgh) Does it contain Ap or Am stars?.
HD 75767	*Griffin, R.F., Fuhrmann, K.* 2013, MNRAS 430, 1390. Comments on partly contradictory results for a nearby solar-type star with unseen companion.
HD 98088	(see SV Crt)
HD 104237	(see DX Cha)
HD 114174	*Crepp, J.R. et al.* (4 authors) 2013, ApJ 774, 1. (1i, 2a, 4a) Discovery of WD companion with Doppler spectroscopy.
HD 150136	*Sana, H. et al.* (6 authors) 2013, A&A 553, 131. (2d0, 4c, 5e) Three-dimensional orbits of the triple-O stellar system. *Sanchez-Bermudez, J. et al.* (7 authors) 2013, A&A 554, L4. (4ci) Direct detection of the tertiary component with VLTI.
HD 165052	*Ferrero, G. et al.* (4 authors) 2013, MNRAS 433, 1300. (2abc, 5defg) Apsidal motion and absolute masses.
HD 179506 (KIC 6352430)	*Pápics, P.I. et al.* (18 authors) 2013, A&A 553, 127. (1ao, 2ado, 5cd, 6b) New SB2 binary with a main sequence B-type pulsator.
HD 200775	(see V380 Cep)
HD 208253	*Griffin, R.E.M., Griffin, R.F.* 2013, Astr. Nachr. 334, 661. (2aco, 5dehk) Spectroscopic analysis of SB2 system (G7 III + early A dwarf); dwarf companion has enhanced Sr and Ba, but is no classical Am star.
HDE 319702	*Barr Dominguez, A. et al.* (8 authors) 2013, A&A 557, 13. (1a, 5c) LC and system parameters for high-mass EB.
HDE 319718 (Pismis 24-1)	*Barr Dominguez, A. et al.* (8 authors) 2013, A&A 557, 13. (1a, 5c) LC and system parameters for high-mass EB.
BD+53°2790 (4U 2206+54)	*Ikhsanov, N.R., Beskrovnaya, N.G.* 2013, ARep 57, 287. (x, 8d) Spin-down mechanism of x-ray pulsar. *Wang, W.* 2013, MNRAS 432, 954. (1x, 5bcg, 8a) Spin and spectral variations.
BD +48°2155 (HIP 67526)	*Jiang, P. et al.* (53 authors) 2013, AJ 146, 65. (2ado, 5de) Companion appears to be brown dwarf.
BD +48°2812 (KIC 1128562)	*Debosscher, J. et al.* (11 authors) 2013, A&A 556, 56. (1b) SB2 with a γ Dor pulsator, discovered from Kepler space photometry.
CD −30°11223	*Geier, S. et al.* (20 authors) 2013, A&A 554, 54. (1ao, 2ao, 5cdegk) Progenitor binary and ejected mass donor remnant of faint type Ia SN.
CPD −51°8946	*Barr Dominguez, A. et al.* (8 authors) 2013, A&A 557, 13. (1a, 5c) LC and system parameters for high-mass EB.
HIP 67526	(see BD +48°2155)

X-ray sources with constellation or galaxy names

Aql X-1	(see V1333 Aql)
Cen X-4	(see V822 Cen)
Cir X-1	(see BR Cir)
Cyg X-1	(see V1357 Cyg)
Cyg X-2	(see V1341 Cyg)
Cyg X-3	(see V1521 Cyg)
Holmberg IX X-1	(see RX J0957.9+6903)
IC 10 X-1	*Pasham, D.R., Strohmayer, T.E., Mushotzky, R.F.* 2013, ApJ 771, L44. (1x) 7 mHz QPO's from the most massive stellar-mass BH.
IC 342 X-1	*Yoshida, T. et al.* (6 authors) 2013, PASJ 65, 48. (2dx, 5i) Two power-law states of the ultraluminous x-ray source.
LMC X-3	(see 1RXS J053855.6−640457)
M81 X-6	*Dewangan, G.C. et al.* (4 authors) 2013, ApJ 771, L37. (1x, 2x) X-ray spectral cutoff and lack of hard x-ray emission from ULXRB.
M82 X-1	(see CXOU J095550.2+694047)
Ser X-1	(see MM Ser)
SMC X-1	(see 2MASS J01170514−7326360)
Vel X-1	(see GP Vel)

Objects with names including RA and DEC

PSR J0007+7303	*Mignani, R.P. et al.* (8 authors) 2013, MNRAS 430, 1354. (1ao) Deep optical observations compatible with γ-ray pulsar in CTA 1 SN remnant.
XMMU J004243.6+412519	*Barnard, R., Garcia, M., Murray, S.S.* 2013, ApJ 772, 126. (2oux) Identification of second ULX source in M31 and evidence for an extended corona.
CXOM31 J004253.1+411422	*Straub, O., Done, C., Middleton, M.* 2013, A&A 553, 61. (2dx, 5i) Advection effects at luminosities close to Eddington in the ULXB.
CXOU J005047.9−731817	*Esposito, P. et al.* (7 authors) 2013, MNRAS 433, 3464. (1x, 2bc, 5bcdg) A 292-s x-ray binary pulsar in SMC.
RX J0051.3−7216 (SXP 91.1)	*Townsend, L.J. et al.* (7 authors) 2013, MNRAS 433, 23. (1x, 5ceg, 8a) Insights into differing NS accretion modes.
RX J0101.8−7223 (SXP 175)	*Townsend, L.J. et al.* (7 authors) 2013, MNRAS 433, 23. (1x, 5ceg, 8a) Insights into differing NS accretion modes.
2XMM J010247.4−720449	*Wada, Q. et al.* (4 authors) 2013, PASJ 65, L2. (2dx) Detection by Suzaku of 522s pulsation from transient x-ray source in SMC.
ASAS J010538−8003.7	*Ratajczak, M. et al.* (4 authors) 2013, MNRAS 433, 2357. (1ao*, 2a, 5abcdeg) Orbital and physical parameters.
2MASS J01170514−7326360 (SMC X-1)	*Coe, M.J. et al.* (4 authors) 2013, MNRAS 433, 746. (1ao, 5bcgi) A detailed study of the modulation of the optical light from the system. *Hu, C.-P. et al.* (4 authors) 2013, ApJ 773, 58. (1x, 2x) Superorbital-phase-resolved analysis.
OT J012059.6+325545	*Nakagawa, S. et al.* (8 authors) 2013, PASJ 65, 70. (1ao, 5i) Multicolour photometry of an outburst of new WZ Sge-type dwarf nova.

4U 0142+61	*Rueda, J.A. et al.* (6 authors) 2013, ApJ 772, L24. (2i*o*r*) Is a WD merger the progenitor?
IGR J015712−7259	*Segreto, A. et al.* (6 authors) 2013, A&A 557, 113. (2x) Swift discovery of the orbital period of HMXB in SMC.
PSR J0348+0432	*Antoniadis, J. et al.* (22 authors) 2013, Science 340, 448. (2ado, 4cr, 5dek) A massive pulsar in a compact relativistic binary.
PSR J0437−4715	*Yang, S. et al.* (5 authors) 2013, ChA&A 37, 195. (1rx) Research on multiband observations of x-ray millisecond pulsar.
RX J0440.9+4431	*Ferrigno, C. et al.* (6 authors) 2013, A&A 553, 103. (2dx, 5i) A Be/x-ray HMXB in persistent outburst.
RX J0513.1+0851	(see V1852 Ori)
1A 0535+26	(see V725 Tau)
1RXS J053855.6−640457 (LMC X-3)	*Cambier, H.J., Smith, D.M.* 2013, ApJ 767, 46. (8d) Application of non-equilibrium viscous-timescale theory.
RX J0539.9+0956	(see V2751 Ori)
MAXI J0556−332	*Sugizaki, M. et al.* (34 authors) 2013, PASJ 65, 58. (1x*, 5i) Spectral evolution of new x-ray transient observed by MAXI, Swift, and RXTE.
RX J0648.0−4418	(see HD 49798)
2MASS J07191664−1616444 (TYC 5965-2398-1)	*Mkrtichian, D.E. et al.* (4 authors) 2013, IBVS No. 6072 (1a, 2b, 6b) A new W UMa-type variable star near R CMa.
PSR J0737−3039A	*Guillemot, L. et al.* (10 authors) 2013, ApJ 768, 169. (2dg) Discovery of γ-ray pulsations.
2MASSW J0746425+200032	*Harding, L.K. et al.* (7 authors) 2013, A&A 554, 113. (1ai, 5bck) Spin-orbit alignment in the very low mass, tight L-dwarf binary.
VSX J075328.9+722424	*Pribulla, T. et al.* (9 authors) 2013, IBVS No. 6067 (1a, 5abc, 6b) A new sdB+M dwarf variable.
SDSS J095335.43+403319.0 (GSC 02996-00858)	*Ayiomamitis, A.* 2013, IBVS No. 6057 (1ab, 6bd) A new Algol-type EB in Leo.
CXOU J095550.2+694047 (M82 X-1)	*Pasham, D.R., Strohmayer, T.E.* 2013, ApJ 771, 101. (1x) Nature of mHz QPO's on ULXRB. *Pasham, D.R., Strohmayer, T.E.* 2013, ApJ 774, L16. (1x) 62-day x-ray period due to precessing AD?
RX J0957.9+6903 (Holmberg IX X-1)	*Dewangan, G.C. et al.* (4 authors) 2013, ApJ 771, L37. (1x, 2x) X-ray spectral cutoff and lack of hard x-ray emission from ULXRB. *Walton, D.J. et al.* (7 authors) 2013, ApJ 773, L9. (1x, 2x) X-ray outflows and super-Eddington accretion on a stellar BH binary origin of ultra-luminous x-rays.
GRO J1008−57	*Kuehnel, M. et al.* (16 authors) 2013, A&A 555, 95. (2g, 2x) An (almost) predictable transient x-ray binary.
ASAS J102322−3737.0	*Schaffenroth, V. et al.* (8 authors) 2013, A&A 553, 18. (1aoi, 2ao, 5bcde, 6b) A new bright hot subdwarf EB.
EC 10246−2707	*Barlow, B.N. et al.* (13 authors) 2013, MNRAS 430, 22. (1ao, 2ao, 5abcdeh, 6b) New HW Vir-type sdB + dM EB discovered; accurate orbital and absolute stellar parameters derived.
2MASS J11001148+3943242 (TYC 3010-1494-1)	*Mack, C.E. et al.* (45 authors) 2013, AJ 145, 139. (2ado, 5dg) System of two similar stars, not star with brown dwarf companion.

SBSS 1108+574	*Carter, P.J. et al.* (15 authors) 2013, MNRAS 431, 372. (1ao, 2aocd, 5bij) Time-resolved photometry and spectroscopy during outburst of dwarf nova with short period of 55.3 min and extreme mass ratio $q = 0.09$. *Littlefield, C. et al.* (9 authors) 2013, AJ 145, 145. (1ao, 2ado) CV with $P < P_{min}$.
CSS J1340520+151341	*Thorstensen, J.R.* 2013, PASP 125, 506. (1ao, 2ao, 5d) CV with stripped, evolved secondary.
PSR J1439−5501	*Pallanca, C. et al.* (7 authors) 2013, ApJ 773, 127. (1ao) Optical companion detected: intermediate mass WD.
PG 1449+653	*Barlow, B.N. et al.* (4 authors) 2013, ApJ 771, 23. (2o) Determination of RV elements of sdB+dwarf binary.
SDSS J152419.33+220920.0	*Michel, R., Echevarría, J., Hernández Santisteban, J.V.* 2013, A&A 554, 25. (1ao, 5b) Eclipsing CV.
PSR J1544+4937	*Bhattacharyya, B. et al.* (20 authors) 2013, ApJ 773, L12. (1r, 2x) Discovery of eclipsing black-widow pulsar identified with a Fermi-Lat source.
1E 1547.0−5408	*Iwahashi, T. et al.* (7 authors) 2013, PASJ 65, 52. (2dx, 5i) Suzaku follow-up observation of activated magnetar.
4U 1608−522	(see QX Nor)
4U 1636−53	(see V801 Ara)
IGR J16418−4532	*Drave, S.P. et al.* (8 authors) 2013, MNRAS 433, 528. (1gx, 5cegi, 8a) Evidence of accretion regime transitions in a supergiant fast x-ray transient.
PSR J1648−4611	*Sakai, M. et al.* (5 authors) 2013, PASJ 65, 64. (1x, 5j) Discovery of diffuse hard x-ray emission from the vicinity of pulsar with Suzaku.
MAXI J1659−152	*Kuulkers, E. et al.* (15 authors) 2013, A&A 552, A32. (2dx) The shortest orbital-period BH transient in outburst. *Paragi, Z. et al.* (12 authors) 2013, MNRAS 432, 1319. (1r, 5ceg, 8a) Presence of a compact jet in the system.
PG 1701+359	*Barlow, B.N. et al.* (4 authors) 2013, ApJ 771, 23. (2o) Determination of RV elements of sdB+dwarf binary.
XTE J1701−407	*Pawar, D.D. et al.* (8 authors) 2013, MNRAS 433, 2436. (1x, 5bcg) Discovery of twin kHz QPOs.
XTE J1701−462	*Asai, K. et al.* (9 authors) 2013, ApJ 773, 117. (1x, 2x) Propeller effect interpretation of LC. *Li, Z-S. et al.* (5 authors) 2013, ApJ 767, 167. (2dx) Cross-spectral time-lag evolution.
IGR J17062−6143	*Degenaar, N. et al.* (5 authors) 2013, ApJ 767, L37. (2cdx) Emission and absorption features during a thermonuclear burst.
XTE J1709−267	*Degenaar, N., Wijnands, R., Miller, J.M.* 2013, ApJ 767, L31. (2dx) Direct measure of heat release from crust of NS.
1RXS J171824.2−402934	*Armas Padilla, M., Degenaar, N., Wijnands, R.* 2013, MNRAS 434, 1586. (1x, 5cegi, 8a) X-ray spectral properties.
4U 1735−44	*Lei, Y.-U. et al.* (11 authors) 2013, AJ 146, 60. (1x*, 5i) Analysis of cross-correlations and time lags of hard and soft x-rays.
1RXH J173523.7−354013	*Armas Padilla, M., Degenaar, N., Wijnands, R.* 2013, MNRAS 434, 1586. (1x, 5cegi, 8a) X-ray spectral properties.
PSR J1740−5340	*Mucciarelli, A. et al.*(6 authors) 2013, ApJ 772, L27. (2iou) ESO VLT determines nature of PSR's interacting companion.

H 1743−322	*Zhou, J.N. et al.* (8 authors) 2013, MNRAS 431, 2285. (1x, 5cg, 8a) The last three outbursts observed by RXTE.
Swift J174510.8−262411	*Muñoz-Darias, T. et al.* (16 authors) 2013, MNRAS 432, 1133. (1ao, 2ac, 5bcdeg) Photometry and spectroscopy of the optical counterpart.
IGR J17480−2446	*Jiang, L., Xiang-Dong, L.* 2013, ApJ 772, 6. (8ac) Formation of this peculiar LMXB.
SAX J1750.8−2900	*Wijnands, R., Degenaar, N.* 2013, MNRAS 434, 1599. (1gx, 5cgi, 8a) A low-level accretion flare during the quiescent state.
XTE J1752−223	*Chun, Y.Y. et al.* (9 authors) 2013, ApJ 770, 10. (2doix) Multi-wavelength observations during 2010 outburst decay.
Swift J1753.5−0127	*Kalamkar, M. et al.* (5 authors) 2013, ApJ 766, 89. (2dx) Flucuations in the AD during outburst. *Mostafa, R. et al.* (7 authors) 2013, MNRAS 431, 2341. (1x, 5cghi, 8ab) The x-ray spectrum. *Shaw, A.W. et al.* (9 authors) 2013, MNRAS 433, 740. (1aogx, 5cgi, 8ab) A 420-day x-ray/optical modulation and extended x-ray dips.
AX J1754.2−2754	*Armas Padilla, M., Degenaar, N., Wijnands, R.* 2013, MNRAS 434, 1586. (1x, 5cegi, 8a) X-ray spectral properties.
IGR J17544−2619	*Nikolaeva, E.A. et al.* (6 authors) 2013, BCrAO 109, 27 (1a, 2ac, 5bde) Investigation of parameters of HMXB.
SAX J1808.4−3658	(see V4580 Sgr)
PSR J1811−1736	*Mignani, R.P. et al.* (4 authors) 2013, MNRAS 430, 1008. (1ai*) Possible companion of binary pulsar detected by UKIDSS deep IR data; possibly a double NS system.
IGR J18245−2452	*Pallanca, C. et al.* (5 Authors) 2013, ApJ 773, 122. (1ao) Optical companion detected.
ASAS J182510−2435.5	*Ratajczak, M. et al.* (4 authors) 2013, MNRAS 433, 2357. (1ao*, 2a, 5abcdeg) Orbital and physical parameters.
Swift J1834.9−0846	*Tong, H., Yuan, J.-P., Liu, Z.-Y.* 2013, RAA 13, 835. (1r) Non-detection of pulsed radio emission from magnetar: constraint on the fundamental plane of emission.
MAXI J1836−194	*Russell, D.M. et al.* (30 authors) 2013, ApJ 768, L35. (2diox) Evolution of the compact jet.
2MASS J18483809+4429098 (KIC 8410637)	*Frandsen, S. et al.* (14 authors) 2013, A&A 556, 138. (8a, 5e) EB with 408-day period, containing a pulsating giant star.
2MASS J19033272+3941003 (KIC 4544587)	*Hambleton, K.M. et al.* (10 authors) 2013, MNRAS 434, 925. (1ao, 2ao, 5bcdeg) A binary system with δ Sct pulsations and tidally excited modes.
4U 1907+09	*Maitra, C., Paul, B.* 2013, ApJ 771, 96. (1a, 2x) Suzaku observations of pulse-phase resolved spectra; analysis of cyclotron absorption features.
2MASS J19113242+4830436 (GSC 03546-01452)	*DeLee, N. et al.* (46 authors) 2013, AJ 145, 155. (2ao, 5d, 6c) MARVELS RV survey discovery - companion appears to be brown dwarf.
GRS 1915+105	(see V1487 Aql)
2MASS J19211161+4758430 (KIC 10661783)	*Lehmann, H. et al.* (4 authors) 2013, A&A 557, 79. (8a, 5e) Physical properties of eclipsing δ Sct star.
2MASS J19241081+4459348 (KIC 8751494)	*Kato, T., Maehara, H.* 2013, PASJ 65, 76. (1ao, 5i) Analysis of Kepler LC of the novalike CV.

2MASS J19265907+0029061 (CoRot 101186644)	*Tal-Or, L. et al.* (13 authors) 2013, A&A 553, 30. (1ao, 2ao, 5cde) A transiting low-mass dense M-dwarf on an eccentric 20.7-day period orbit around a late F-star.
2MASS J19413393+4013003 (WOCS 40007)	*Jeffries, M.W. et al.* (13 authors) 2013, AJ 146, 58. (1ao, 2ao, 5abcde) Detached eclipsing SB2 with third component, near turnoff point of cluster NGC 6819.
XTE J1946+274	*Maitra, C., Paul, B.* 2013, ApJ 771, 96. (1a, 2x) Suzaku observations of pulse-phase resolved spectra; analysis of cyclotron absorption features.
2MASS J20200045+0437564 (NSVS 14256825)	*Almeida, L.A., Jablonski, F., Rogrigues, C.V.* 2013, ApJ 766, 11. (1aio) Two possible planets orbiting system.
VSX J213806.5+261957 (GSC 2197-0886)	*Shimansky, V.V. et al.* (4 authors) 2013, BCrAO 109, 16 (1a, 2ac, 5cde) Analysis of observations of WZ-Sge-type dwarf nova.
4U 2206+54	(see BD +53°2790)

Objects with other designations

BAT 99-38	(see HD 36402)
CoRot 101186644	(see 2MASS J19265907+0029061)
CoRot 102918586	*Maceroni, C. et al.* (5 authors) 2013, A&A 552, A60. (1ao, 2ado, 5bcde) A γ Dor pulsator in a short-period eccentric EB.
GSC 1123-0250	*Doroshenko, V.T.* 2013, PZ 33, 5 (1a, 5c, 6b) Probable new W UMa-type EB in the field of Seyfert 1 galaxy Mrk 1513.
GSC 2197-0886	(see VSX J213806.5+261957)
GSC 2996-0858	(see SDSS J095335.43+403319.0)
GSC 3546-1452	(see 2MASS J19113242+4830436)
HBHA 4705-03	*Rutkowski, A. et al.* (4 authors) 2013, Acta Astronomica, 63, 225-238 (1a, 5c, 6d) A new eclipsing CV in Lac.
Hen 3-1341	(see V2523 Oph)
KELT ID KP101231	*Shanti Priya, D., Sriram, K., Vivekananda Rao, P.* 2013, RAA 13, 465. (1ao, 5ac, 6d) Photometric study of EB in Praesepe.
KIC 4544587	(see 2MASS J19033272+3941003)
KIC 4931738	*Pápics, P.I. et al.* (18 authors) 2013, A&A 553, 127. (1ao, 2ado, 5cd, 6b) New SB2 binary with a main sequence B-type pulsator.
KIC 6352430	(see HD 179506)
KIC 8410637	(see 2MASS J18483809+4429098)
KIC 8751494	(see 2MASS J19241081+4459348)
KIC 10661783	(see 2MASS J19211161+4758430)
KIC 11285625	(see BD +48°2812)
LkCa3	(see V1098 Tau)
LS I 61°303	(see V615 Cas)
LXP 169	*Maggi, P. et al.* (8 authors) 2013, A&A 554, 1. (1ao*, 2dxg, 6bc) New HMXB in the LMC: a 168.8s x-ray pulsar transiting in front of its Be companion.
Marvels-1	*Barnard, R., Garcia, M., Murray, S.S.* 2013, ApJ 770, 119. (1o, 2o) False identification of planet candidates due to face-on orbits of M-dwarfs + F9 dwarf.

M31 r1-25	*Patel, B. et al.* 2013, ApJ 771, 6. (1x*) Analysis of state-changing luminous supersoft x-ray source.
NSVS 14256825	(see 2MASS J20200045+0437564)
ω Cen NV358	Li, K., Qian, S.-B. 2013, RAA 13, 827. (1ao, 5abcde) EA-type binary in globular cluster.
ω Cen V211	Li, K., Qian, S.-B. 2013, RAA 13, 827. (1ao, 5abcde) EA-type binary in globular cluster.
Pismis 24-1	(see HDE 319718)
SN 1572	(see B Cas)
SXP 91.1	(see RX J0051.3−7216)
SXP 175	(see RX J0101.8−7223)
TYC 3010-1494-1	(see 2MASS J11001148+3943242)
TYC 5965-2398-1	(see 2MASS J07191664-1616444)
USNO-A2.0 1200-07369079	*Doroshenko, V.T.* 2013, PZ 33, 5 (1a, 5c, 6b) Probable new W UMa-type EB in the field of Seyfert 1 galaxy Mrk 478.
USNO-A2.0 1350-17086180	*Solovyov, V., Samokhvalov, A., Satovskiy, B.* 2013, PZ 33, 4 (1a, 5c, 6b) New EB with δ Sct component.
WOCS 40007	(see 2MASS J19413393+4013003)
WR 62a	*Collado, A., Gamen, R., Barbá, R. H.* 2013, A&A 552, A22. (2ao, 5d, 6b) A new WR binary system.
WTS 19g-4-02069	*Nefs, S.V. et al.* (9 authors) 2013, MNRAS 431, 3240. (1aoi, 2aoi, 5abcdeg) A highly unequal-mass eclipsing M-dwarf binary.
I Zw 18	*Kaaret, P., Feng, H.* 2013, ApJ 770, 20. (2dx) Observations of a luminous x-ray binary in a low-metallicity galaxy.

General

Abate, C. et al. (5 authors) 2013, A&A 552, A26. (8cd) Wind Roche-lobe overflow: application to carbon-enhanced metal-poor stars.

Aksenov, A.G., Chechetkin, V.M. 2013, ARep 57, 498. (8ac) Gravitational radiation during coalescence of NS.

Antokhina, E.A., Antokhin, I.I., Cherepashchuk, A.M. 2013, BCrAO 109, 54. (8d) LC synthesis for binary systems: the stellar wind effect.

Bauermann, K., Dreizler, S., Hessmann, F.V. 2013, A&A 555, 133. (5g) The quest for companions to post-common envelope binaries. IV. The 2:1 mean-motion resonance of the planets orbiting NN Ser.

Bednarek, W., Sitarek, J. 2013, MNRAS 430, 2951. γ-rays from nebulae around binary systems containing energetic rotation-powered pulsars.

Bisikalo, D.V. et al. (5 authors) 2013, ARep 57, 327. (8ad, 5i) A possible mechanism for the formation of tilted disks in IP.

Bodenheimer, P. 2013, ApJ 770, 120. Planet-brown dwarf boundary redefined at 11.6-13.6 MJup. (8a)

Bours, M.C.P., Toonen, S., Nelemans, G. 2013, A&A 552, A24. (8c) Single degenerate type Ia SN progenitors. Studying the influence of different mass retention efficiencies.

Cartwright, T.F. et al. (7 authors) 2013, ApJ 768, 183. (1x, 2dx) Luminosity function of ultracompact x-ray binaries.

Chapellier, E., Mathias, P. 2013, A&A 556, 87. (8c) CoRoT 100866999: a hybrid γ Dor-δ Sct star in an EB system.

Chen, X. et al. (8 authors) 2013, MNRAS 434, 186. The orbital periods of subdwarf B binaries produced by the first stable Roche Lobe overflow channel.

Davis, P.J., Siess, L., Deschamps, R. 2013, A&A 556, 4. (5j, 8c) Mass transfer in eccentric binary systems using the binary evolution code BINSTAR.

Decarli, R. et al. (8 authors) 2013, MNRAS 433, 1492. The nature of massive BH binary candidates? I. Spectral properties and evolution.

De Laurentis, M., De Martino, I. 2013, MNRAS 431, 741. Testing f(R) theories using the first time derivative of the orbital period of the binary pulsars.

Deschamps, R. et al. (4 authors) 2013, A&A 557, 40. (5i, 8c) Critically-rotating accretors and non-conservative evolution in Algols.

Eisenbeiss, T. et al. (8 authors) 2013, A&A 556, 53. (8a) The Hercules-Lyra association revisited. New age estimation and multiplicity study.

Faghei, K. 2013, RAA 13, 1075. Dynamical model for radiatively inefficient accretion flows with convection.

Fromang, S. et al. (4 authors) 2013, A&A 552, A71. Local outflows from turbulent ADs.

Fuller, J., Lai, D. 2013, MNRAS 430, 274. Dynamical tides in compact WD binaries: helium core WDs, tidal heating and observational signatures.

Gao, H., Ding, X., Wu, X.-F. 2013, ApJ 771, 86. (8a) Gravity wave bursts from binary NS mergers.

Gianninas, A. et al. (4 authors) 2013, ApJ 766, 3. (7c) Limb darkening coefficients for eclipsing WDs.

Guilet, J., Ogilvie, G.I. 2013, MNRAS 430, 822. Transport of magnetic flux and the vertical structure of ADs – II. Vertical profile of the diffusion coefficients.

Hamers, A.S. et al. (4 authors) 2013, MNRAS 430, 2262. Population synthesis of triple systems in the context of mergers of CO WDs.

Hayasaki K., Saito, H., Mineshige, S. 2013, PASJ 65, 87. Binary BH accretion flows from a misaligned circumbinary disk.

Heinke, C.O. et al. (7 authors) 2013, ApJ 768, 184. (1x, 2dx) Disk stability and evolution in ultra-compact x-ray binaries.

Huang, C. et al. (4 authors) 2013, RAA 13, 705. A magnetic reconnection model for QPOs in BH systems.

Huarte-Espinosa, M. et al. (5 authors) 2013, MNRAS 433, 295. The formation and evolution of wind-capture discs in binary systems.

Ingram, A., van der Klis, M. 2013, MNRAS 434, 1476. An exact analytic treatment of propagating mass-accretion rate fluctuations in x-ray binaries.

Jiang, B. et al. (4 authors) 2013, MNRAS 430, 986. Data mining for CVs in the large-sky-area multi-object fibre spectroscopic telescope archive.

Kato, S. 2013, PASJ 65, 56. Tidal instability and superhump in dwarf novae described by a wave-wave resonant process.

Kato, S. 2013, PASJ 65, 75. Resonant excitation of disk oscillations in deformed disks. VI. Stability criterion revisited.

Koliopanos, F., Gilfanov, M., Bildsten, L. 2013, MNRAS 432, 1264. X-ray diagnostics of chemical composition of the accretion disc and donor star in ultra-compact x-ray binaries.

Kostogryz, N.M. et al. (5 authors) 2013, Astr. Nachr. 334, 648. A spectral differential approach to characterizing low-mass companions to late-type stars.

Linnell, A.P., DeStefano, P., Hubeny, I. 2013, AJ 146, 68. Binary star synthetic photometry and distance determination using BINSYN.

Liu, Z.-W. et al. (11 authors) 2013, ApJ 774, 37. 3D-hydrodynamical impact of SN1a explosions on helium companion. (8acd)

Lovisi, L. et al. (6 authors) 2013, ApJ 772, 148. Observations of 2 blue-straggler sequences reveal that one of these objects is a fast rotating WUMa variable. (1oiu)

Lutovinov, A.A. et al. (4 authors) 2013, MNRAS 431, 327. Population of persistent HMXBs in the Milky Way.

Mahmoodifar, S., Strohmeyer, T. 2013, ApJ 773, 140. (1aox*) Upper bounds of r-mode amplitudes in LMXB NSs.

Mazur, G.P. et al. (7 authors) 2013, A&A 554, 57. Towards modelling QPOs of microquasars with oscillating slender tori.

Mighell, K.J., Plavchan, P. 2013, AJ 145, 148. Period error estimation for Kepler EB catalogue.

Mineo, S. et al. (6 authors) 2013, ApJ 771, 133. ULXRBs are correlated with local star formation rate in colliding galaxy. (1x*)

Minesaki, Y. 2013, AJ 146, 27. Accurate orbital integrator for restricted three-body problem.

Miszalski, B., Mikołajewska, J., Udalski, A. 2013, MNRAS 432, 3186. Symbiotic stars and other Hα emission-line stars towards the galactic bulge.

Neilson, H.R., Lester, J.B. 2013, A&A 554, 98. Spherically-symmetric model stellar atmospheres and limb darkening. I. Limb-darkening laws, gravity-darkening coefficients and angular diameter corrections for red giant stars.

Nishimura, O. 2013, PASJ 65, 84. Superposition of cyclotron lines in accreting x-ray pulsars. II. Increasing B-field.

Notsu, Y. et al. (9 authors) 2013, ApJ 771, 127. Tycho data on frequency of super flares on solar-type stars vs. rotation and spot coverage. (1a)

Okazaki, A.T., Hayasaki, K., Moritani, Y. 2013, PASJ 65, 41. Origin of two types of x-ray outbursts in Be/x-ray binaries. I. accretion scenarios.

Ouyed, R., Staff, J. 2013, RAA 13, 435. Quark novae in NS-WD binaries: a model for luminous (spin-down powered) sub-Chandrasekhar-mass type Ia supernovae?

Palate, M. et al. (4 authors) 2013, A&A 552, A39. Spectral modelling of massive binary systems.

Park, M., Oh, H.S., Kim, D. 2013, PASP 125, 470. Classification of variable stars using thick-pen transform method.

Pathania, A., Lal, A.K., Mohan, C. 2013, JApA 34, 69. On the use of Roche equipotentials in analysing the problems of binary and rotating stars.

Picogna, G., Marzari, F. 2013, A&A 556, 148. (5i) Three-dimensional modelling of radiative disks in binaries.

Piran, T., Nakar, E., Rosswog, S. 2013, MNRAS 430, 2121. The electromagnetic signals of compact binary mergers.

Plotkin, R.M., Gallo, E., Jonker, P.G. 2013, ApJ 773, 59. Evolution of BH x-ray binaries toward quiescence. (1x, 2x)

Pretorius, M.L., Knigge, C., Schwope, A.D. 2013, MNRAS 432, 570. The space density of magnetic CVs.

Remmen, G.N., Wu, K. 2013, MNRAS 430, 1940. Complex orbital dynamics of a double NS system revolving around a massive BH.

Reynolds, M.T., Miller, J.M. 2013, ApJ 769, 16. (2dx) A survey of accretion onto stellar-mass BH's.

Rosswog, S., Piran, T., Nakar, E. 2013, MNRAS 430, 2585. The multimessenger picture of compact object encounters: binary mergers versus dynamical collisions.

Rucinski, S.M., Pribulla, T., Budaj, J. 2013, AJ 146, 70. Spectroscopic metallicity determination for W UMa-type binaries.

Santana, F.A. et al. (7 authors) 2013, ApJ 774, 106. Merger or multiple-star origin of blue stragglers in low-density stellar environments. (1ai)

Shafter, A.W. 2013, AJ 145, 117. Photometric and spectroscopic properties of novae in LMC - a population study.

Shappee, B.J, Thompson, T.A. 2013, ApJ 766, 64. (8a) Mass-loss-induced eccentric Kozai mechanism to produce compact objects in binaries.

Smak, J. 2013, Acta Astronomica, 63, 369. On the nature of superhumps.

Song, H.F. et al. (6 authors) 2013, A&A 556, 100. (8c, 8a) CB evolution. I. Tidally induced shear mixing in rotating binaries.

Stepien, K., Kiraga, M. 2013, Acta Astronomica, 63, 239. Evolution of cool CBs - Rapid mass transfer and near-contact binaries.

Stuchlík, Z., Kotrlová, A., Török, G. 2013, A&A 552, A10. (5i, 8acd) Multi-resonance orbital model of high-frequency QPOs: possible high-precision determination of BH and NS spin.

Summa, A. et al. (14 authors) 2013, A&A 554, 67. (8c) γ-ray diagnostics of type Ia SN. Predictions of observables from three-dimensional modelling.

Sybilski, P. et al. (4 authors) 2013, MNRAS 431, 2024. Non-Keplerian effects in precision radial velocity measurements of SB2s: numerical simulations.

Takeuchi, S., Ohsuga, K., Mineshige, S. 2013, PASJ 65, 88. Clumpy outflows from supercritical accretion flow.

Terziev, E. et al. (19 authors) 2013, ApJS 206, 18. Detecting binaries using point-spread functions. (1a*, 7d)

Tkachenko, A. et al. (13 authors) 2013, A&A 556, 52. (1a, 2c) Detection of a large sample of γ Dor stars from Kepler space photometry and high-resolution ground-based spectroscopy.

Tornambé, A., Piersanti, L. 2013, MNRAS 431, 1812. Pre-explosive observational properties of type Ia SNe.

Tran, K. et al. (5 authors) 2013, ApJ 774, 81. Kepler O-C study of contact binaries show spot-dependent quasi-periodicities and anticorrelations. (5ab)

Tzanavaris, P. et al. (10 authors) 2013, ApJ 774, 136. Modelling x-ray binary evolution in normal galaxies. (1xi*, 2xi*)

van Haaften, L.M. et al. (7 authors) 2013, A&A 552, A69. (8c) Population synthesis of ultracompact LMXBs in the galactic bulge.

Veledina, A., Poutanen, J., Vurm, I. 2013, MNRAS 430, 3196. Hat accretion flow in BH binaries: a link connecting x-rays to the IR.

Wang, X. et al. (5 authors) 2013, Science 340, 170. Evidence for two distinct populations of type Ia SN.

Weinberg, N.N., Arras, P., Burkart, J. 2013, ApJ 769, 121. (8c) Instabilities in coalescing NS binaries.

Werner, M. et al. (4 authors) 2013, A&A 555, 102. (2g) Fermi-LAT upper limits on γ-ray emission from colliding-wind binaries.

Wijnands, R., Degenaar, N., Page, D. 2013, MNRAS 432, 2366. Testing the deep-crustal heating model using quiescent neutron-star very-faint x-ray transients and the possibility of partially accreted crusts in accreting NSs.

Wolk, S.J., Rice, T.S., Aspin, C.A. 2013, AJ 145, 113. New variable stars in field of Cyg OB1 probably include some EBs.

Yildiz, M., Dogan, T. 2013, MNRAS 430, 2029. On the origin of W UMa-type contact binaries – a new method for computation of initial masses.

Zhang, X., Jeffery, C.S. 2013, MNRAS 430, 2113. WD – red giant mergers, early-type R stars, J stars and lithium.

Zhang, Z., Gilfanov, M., Bogdan, A. 2013, A&A 556, 9. (6b, 6c) LMXB populations in galaxy outskirts: globular clusters and supernova kicks.

Zrake, J., MacFadyen, A.I. 2013, ApJ 769, L29. (8c) Magnetic energy production by turbulence in NS mergers.

Collections of data

Barnard, R., Garcia, M.R., Murray, S,S. 2013, ApJ 770, 148. (1x, 2x) Twenty-six new BH candidates discovered in M31.

Berdnikov, L.N., Pastukhova E.N. 2013, PZP 13, 13. (1b, 6c) VBIc Photometry for Five EB: ASAS 052606-6710.9, ASAS 063847-3108.0, EZ Mon, ASAS 074522-2400.2, ASAS 200559-0159.9.

Britt, C.T. et al. (13 authors) 2013, ApJ 769, 120. (1ao, 2co) Identification of 5 interacting binaries in the Chandra galactic bulge survey: CXOGBS J174009.1−284725 (CX5), CXOGBS J173935.7−272935 (CX18), CXOGBS J173946.9−271809 (CX28), CXOGBS J173729.1−292804 (CX37), CXOGBS J174607.6−261547 (CX561))

Brown, W.R. et al. (5 authors) 2013, ApJ 769, 66. (2do) Discovery of 17 merging low-mass WD binaries, all ELM WD: J0056−0611, J0751−0141, J0755+4800, J0802-0955, J0811+0225, J0815+2309, J0840+1527, J1046−0153, J1104+0918, J1141+3850, J1151+5858, J1157+0546, J1238+1946, J1538+0252, J1557+2823, J2132+0754, J2338−2052.

Burke, M.J. et al. (22 authors) 2013, ApJ 766, 88. (2dx) Spectral properties of x-ray binaries in Cen A.

Diethelm, R. 2013, IBVS No. 6063 (5a) Timings of Minima of EB: V688 Aql, GSC 5117-2288, CL Ari, CG Aur, CL Aur, FR Aur, GI Aur, HP Aur, IZ Aur, MO Aur, V555 Aur, V596 Aur, V603 Aur, V609 Aur, GSC 1477-516, GSC 1999-404, UU Cam, AL Cam, MT Cam, V369 Cam, V373 Cam, V374 Cam, V381 Cam, V385 Cam, V396 Cam, V470 Cam, GSC 3715-43, YY Cnc, HN Cnc, IM Cnc, IO Cnc, KT Cnc, KY Cnc, LU Cnc, GSC 794-1208, GSC 809-569, NSV 4158, RV CVn,

DI CVn, DY CVn, AV CMi, MU Cas, AQ Com, CN Com, DG Com, GSC 1994-465, GSC 6077-1825, V2544 Cyg, NT Dra, NV Dra, BQ Eri, LW Eri, GSC 5314-2102, GSC 5321-819, HR Gem, V383 Gem, V1344 Her, GSC 950-560, TY Hya, EZ Hya, FG Hya, V474 Hya, GSC 201-1119, GSC 230-1627, GSC 238-2372, GSC 4853-30, GSC 4881-888, GSC 4894-2310, GSC 4897-1114, GSC 4897-1250, GSC 5426-1920, GSC 5463-45, GSC 5472-602, GSC 5487-801, GSC 5488-3, GSC 6011-1986, UU Leo, UX Leo, XY Leo, GSC 234-960, GSC 263-585, GSC 267-162, GSC 270-777, GSC 829-1040, GSC 832-1401, GSC 835-652, GSC 1417-401, GSC 1434-1034, GSC 1963-488, GSC 1971-916, GSC 4936-907, RT LMi, XY LMi, SU Lep, GSC 5345-815, GSC 5351-457, GSC 5352-540, FU Lib, V351 Lib, DR Lyn, FI Lyn, FO Lyn, CF Mon, V455 Mon, V501 Mon, V521 Mon, V922 Mon, V953 Mon, GSC 4840-528, GSC 4855-2438, GSC 5640-366, GSC 6218-197, DW Ori, ET Ori, V648 Ori, V1853 Ori, V2735 Ori, V2783 Ori, GSC 104-1999, GSC 108-1146, GSC 127-719, GSC 711-49, GSC 711-1701, GSC 4741-710, GSC 4783-467, GSC 5346-275, IK Per, NZ Per, MS Per, V432 Per, V947 Per, V951 Per, V958 Per, V959 Per, V963 Per, V964 Per, GSC 5422-1430, GSC 5439-620, CL Sct, GSC 361-795, GSC 242-2191, GSC 243-397, GSC 4896-33, GSC 4906-447, GSC 4909-1434, GSC 4916-292, GSC 5478-562, AP Tau, CT Tau, CU Tau, EN Tau, GR Tau, V1112 Tau, V1352 Tau, V1367 Tau, V1370 Tau, ASAS 054432+1305.7, GSC 72-521, GSC 681-692, GSC 1274-564, GSC 1831-687, GSC 1852-1665, NSV 1955, XZ UMa, AA UMa, BE UMa, BM UMa, ES UMa, OQ UMa, QT UMa, QV UMa, GSC 897-470, VZ UMi, GSC 4407-351, V391 Vir, GSC 898-3, GSC 4969-725.

Fang, X.-S. et al. (4 authors) 2013, RAA 13, 1052. (1ao, 5abc) Discovery of four W-UMa type eclipsing binaries in the field of open cluster ASCC 5: 2MASS J00570305+5741588, 2MASS J00572555+5546091, 2MASS J00580602+5541451, 2MASS J00583140+5539042.

Fekel, F.C. et al. (4 authors) 2013, AJ 145, 111. (2a, 5dhk) Orbits of five solar-type SB1s: HD 100167, HD 135991, HD 140667, HD 158222, HD 217924.

Gladstone, J.C. et al. (7 authors) 2013, ApJS 206, 14. (1a*x*, 6ac) Optical counterparts of nearest ultra-luminous x-ray sources.

Griffin, R.F. 2013, Observatory 133, 65. (2a, 5d) RV and orbits: HD 26081, HD 125728, HR 5631 (HD 134047), HDE 228188.

Griffin, R.F. 2013, Observatory 133, 144. (2a, 5d) RV and orbits of five short-period SB2s: HD 25788, HD 32704, HD 35967, V455 Aur (HD 45191), LL Aqr (HD 213896).

Griffin, R.F. 2013, AJ 146, 13. (2a*, 5d) Revised orbits for previously published SBs: HD 105982, HR 5964 (HD 143333), HR 8581 (HD 213829), HD 220007.

Griffin, R.F. 2013, Observatory 133, 212. (2a, 5d) RV and orbits: HD 936, HR 1198 (HD 24240), HR 1360 (HD 27497), HD 38750.

Guillot, S. et al. (4 authors) 2013, ApJ 772, 7. (1x*) Mean radii of NS in 5 globular-cluster LMXBs.

Gursoytrak, H. et al. (13 authors) 2013, IBVS No. 6075 (5a) New times of minima for some EB stars: AK Cam, ASAS 013630+0150.3, ASAS 205847+2731.9, ASAS 225956+1418.2, EF Cep, EO CVn, EY CVn, GK Boo, GSC 2750-0854, GSC 3996-0574, GV Leo, HH Boo, HI Dra, LO And, PS Vir, TW CrB, TYC 1426-857-1, TYC 3069-1654-1, V1046 Cas, V1367 Tau, V2612 Oph, V354 UMa, V384 Ser, V407 Peg, V474 Cam, V546 And, V796 Cep.

Howell, S.B. et al. (9 authors) 2013, AJ 145, 109. (2ad, 5g, 6b) Spectroscopy of new and poorly known CVs in Hepler field: V1504 Cyg, V344 Lyr, V358 Lyr (not detected), V452 Lyr (unlikely to be CV), V516 Lyr (not detected), V523 Lyr, V585 Lyr (possibly not CV), 1RXS J185831.1+491434

(KIC 11390659) KIC 3426313, KIC 8490027, KIC 9778689 (not certainly a CV).

Hübscher, J., Lehmann, P.B. 2013, IBVS No. 6070 (5a) BAV-results of observations - photoelectric minima of selected EB: RT And, AA And, AD And, BD And, BL And,CU And, CZ And, DK And, EX And, FK And, GZ And, KP And, V404 And, V406 And, V425 And, V441 And, V504 And, V505 And, V512 And, V514 And, V523 And, DD Aqr, HS Aqr, HV Aqr, LL Aqr, V342 Aql, V609 Aql, V1096 Aql, V1426 Aql, BN Ari, CL Aur, V364 Aur, V591 Aur, V599 Aur, V608 Aur, V640 Aur, V648 Aur, TU Boo, TY Boo, VW Boo, AC Boo, ET Boo, EW Boo, GK Boo, GS Boo, HH Boo, IK Boo, IN Boo, IS Boo, MN Boo, NT Boo, NX Boo, NY Boo, PU Boo, PY Boo, Y Cam, SV Cam, AO Cam, AS Cam, AY Cam, DN Cam, FN Cam, NR Cam, OQ Cam, QU Cam, V366 Cam, V379 Cam, V381 Cam, V382 Cam, V389 Cam, V419 Cam, V455 Cam, V473 Cam, V479 Cam, V495 Cam, V514 Cam, V518 Cam, EH Cnc, HN Cnc, EH CVn, FQ CVn, FV CVn, GG CVn, GM CVn, ZZ Cas, AB Cas, AH Cas, AX Cas, DO Cas, EP Cas, GT Cas, IL Cas, MU Cas, OX Cas, PV Cas, V336 Cas, V366 Cas, V375 Cas, V380 Cas, V381 Cas, V459 Cas, V541 Cas, V651 Cas, V775 Cas, V776 Cas, V1001 Cas, V1007 Cas, V1030 Cas, V1046 Cas, V1060 Cas, V1061 Cas, V1107 Cas, SU Cep, VW Cep, VZ Cep, WX Cep, WY Cep, XY Cep, ZZ Cep, AH Cep, CO Cep, CW Cep, GG Cep, GI Cep, GK Cep, GW Cep, IO Cep, IP Cep, LM Cep, LP Cep, NW Cep, V397 Cep, V711 Cep, V734 Cep, V737 Cep, V834 Cep, RW Com, RZ Com, CC Com, EK Com, LL Com, LO Com, LP Com, NV Com, CV Cyg, DO Cyg, DP Cyg, GG Cyg, GM Cyg, GO Cyg, GV Cyg, KR Cyg, LO Cyg, MY Cyg, NU Cyg, NZ Cyg, QU Cyg, V345 Cyg, V370 Cyg, V382 Cyg, V382 Cyg, V388 Cyg, V398 Cyg, V401 Cyg, V442 Cyg, V448 Cyg, V454 Cyg, V463 Cyg, V474 Cyg, V478 Cyg, V490 Cyg, V501 Cyg, V680 Cyg, V687 Cyg, V725 Cyg, V796 Cyg, V841 Cyg, V859 Cyg, V869 Cyg, V874 Cyg, V887 Cyg, V902 Cyg, V907 Cyg, V957 Cyg, V979 Cyg, V1009 Cyg, V1011 Cyg, V1013 Cyg, V1018 Cyg, V1019 Cyg, V1034 Cyg, V1147 Cyg, V1171 Cyg, V1187 Cyg, V1191 Cyg, V1302 Cyg, V1401 Cyg, V1411 Cyg, V1417 Cyg, V1425 Cyg, V1437 Cyg, V1456 Cyg, V1481 Cyg, V1877 Cyg, V2021 Cyg, V2181 Cyg, V2240 Cyg, V2280 Cyg, V2282 Cyg, V2282 Cyg, V2284 Cyg, V2291 Cyg, V2294 Cyg, V2364 Cyg, V2546 Cyg, BG Del, EX Del, FZ Del, GG Del, Z Dra, TZ Dra, WX Dra, BE Dra, BV Dra, EF Dra, FX Dra, KZ Dra, OO Dra, OQ Dra, V338 Dra, V344 Dra, RZ Equ, SV Equ, V404 Gem, V405 Gem, TU Her, CT Her, DH Her, GU Her, IT Her, PW Her, V502 Her, V607 Her, V643 Her, V719 Her, V722 Her, V728 Her, V865 Her, V1033 Her, V1035 Her, V1036 Her, V1037 Her, V1047 Her, V1055 Her, V1062 Her, V1071 Her, V1073 Her, V1095 Her, V1096 Her, V1100 Her, V1103 Her, V1105 Her, SW Lac, VV Lac, AG Lac, AI Lac, AU Lac, CY Lac, DG Lac, EL Lac, ER Lac, ES Lac, EX Lac, EY Lac, FL Lac, FP Lac, GH Lac, HR Lac, IL Lac, IM Lac, IU Lac, KU Lac, MZ Lac, NR Lac, NW Lac, OS Lac, PP Lac, V339 Lac, V342 Lac, V345 Lac, V441 Lac, V450 Lac, V458 Lac, Y Leo, XX LMi, XY LMi, RZ Lyn, SW Lyn, CD Lyn, DE Lyn, DZ Lyn, FO Lyn, FS Lyn, TZ Lyr, DF Lyr, GZ Lyr, HY Lyr, IP Lyr, MN Lyr, MZ Lyr, OT Lyr, PS Lyr, QU Lyr, V574 Lyr, V579 Lyr, V591 Lyr, V392 Ori, V648 Ori, V1799 Ori, V1823 Ori, V1853 Ori, U Peg, BB Peg, BG Peg, BY Peg, CC Peg, DK Peg, V365 Peg, V404 Peg, RT Per, WY Per, IU Per, LX Per, V432 Per, V570 Per, V873 Per, V881 Per, V887 Per, V912 Per, DV Psc, DZ Psc, EX Psc, GR Psc, GY Psc, RW PsA, V365 Sge, AO Ser, AS Ser, AU Ser, CC Ser, V1094 Tau, BC Tri, BX Tri, TY UMa, VV UMa, XY UMa, XZ UMa, DW UMa, EQ UMa, HN UMa, KM UMa, LP UMa, MQ UMa, NV UMa, VW UMi, CG Vir, PS Vir, BB Vul, BE Vul, BU Vul, DR Vul, ER Vul, FR Vul, GN Vul, GP Vul, HI Vul, GSC 00104-01058, GSC 00279-00695, GSC 00861-00252, GSC 00863-00753, GSC 01127-01808, GSC 01315-01104, GSC 01360-01778, GSC 01438-01514, GSC 01643-01880, GSC 01920-01922, GSC 01922-01415, GSC 01939-00891, GSC 02452-02005, GSC 02454-00681, GSC 02454-01430, GSC 02458-01669, GSC 02461-00856, GSC 02469-00087, GSC 02474-00423, GSC 02483-00686, GSC 02610-00088, GSC 02677-00838, GSC 02746-00463, GSC 02757-01475, GSC 02797-01241, GSC 02855-00949, GSC 02869-00639, GSC 02903-00067, GSC 02933-01972, GSC 03110-00482, GSC 03111-00566, GSC 03200-01298, GSC 03205-01788, GSC 03205-02277, GSC 03223-01180, GSC 03344-01247, GSC 03373-01033, GSC 03573-01677, GSC 03578-00263, GSC 03579-00488, GSC 03581-01856, GSC 03583-00309, GSC 03590-01714, GSC 03612-00014, GSC 03618-00162, GSC 03619-00047, GSC 03619-00715, GSC 03635-

01628, GSC 03748-00162, GSC 03749-01263, GSC 03983-00544, GSC 04031-00546, GSC 04038-00816, GSC 04043-01123, GSC 04045-00231, GSC 04045-00446, GSC 04297-01593, GSC 04479-00391, GSC 04497-00283, GSC 04585-02642, GSC 04826-02102, GSC 04922-00133, NSVS 109935, NSVS 1541003, NSVS 1841163, NSVS 1929858, NSVS 2791123, NSVS 2871290, NSVS 366701, NSVS 437746, U-A2 1125-18642389, U-B1 1398-0469064, U-B1 1400-0455467, U-B1 1416-0454010, U-B1 1440-0411990, U-B1 1500-0005759, U-B1 1503-0282065.

Khruslov, A.V. 2013, PZP 13, 16. (6c) VBIc New Variable Stars II: GSC 3396-02119, GSC 2956-00357, GSC 3400-00396, USNO-A2.0 1275-06827878, GSC 2948-00843, GSC 2956-00840, GSC 3405-00330, TYC 3401 00730 1, USNO-A2.0 1275-06888047, GSC 2965-01569, GSC 2961-00550, GSC 3397-00031, GSC 3405-00349, GSC 2961-01023, GSC 2966-00441, GSC 2966-00624, GSC 3409-01953, GSC 3409-01170, GSC 2966-00452, GSC 3409-01272, TYC 3412 02040 1, GSC 2967-00227, GSC 2967-00061, GSC 3410-01017, GSC 3410-00420, GSC 2963-00184, GSC 3413-02477, TYC 3407 01014 1, GSC 2967-01223, GSC 3410-00265, GSC 3407-01121, TYC 3407 01934 1, GSC 2968-00253, TYC 3407 01832 1, GSC 3410-01451, GSC 3410-02273, GSC 3407-02902, GSC 2972-00926, TYC 2964 01200 1, TYC 3414 02129 1, GSC 3411-00842, BD+52 1270, GSC 3414-01621, GSC 2979-01135, GSC 3414-01353, GSC 2976-00653, GSC 2979-01248, GSC 2976-01659, GSC 2980-01109, GSC 3414-00581, GSC 3421-00812, GSC 3418-01104, GSC 3421-01203, GSC 2977-01458, GSC 2978-00622, GSC 2978-00804, GSC 2978-00906, GSC 3422-01397, TYC 2985 00960 1.

Klagyivik, P. et al. (14 authors) 2013, ApJ 773, 54. (1a) Variability survey of CoRoT SRa01 field: EBs discovered in NGC 2264; higher frequency of EA binaries near centre.

Kryachko, T, Samokhvalov, A., Satovskiy, B. 2013, PZP 13, 8. (1a, 6c) New variable stars in Perseus: USNO-A2.0 1200-02262058, USNO-A2.0 1200-02262578, USNO-A2.0 1200-02265349, USNO-A2.0 1200-02267599, USNO-A2.0 1200-02275043, USNO-A2.0 1200-02278822, USNO-A2.0 1200-02287405, USNO-A2.0 1200-02287503, USNO-A2.0 1200-02293226.

Kupfer, T. et al. (7 authors) 2013, MNRAS 432, 2048. (2aco, 5bdeg) Orbital periods and accretion disc structure of four AM CVn systems: SDSS J012940.05+384210.4, SDSS J120841.96+355025.2, SDSS J152509.57+360054.5, SDSS J164228.06+193410.0.

Lapukhin, E.G., Veselkov, S.A., Zubareva, A.M. 2013, PZP 13, 12. (1a, 6c) New variable stars in Lacerta: Area of $2^\circ.3 \times 2^\circ.3$, Centred at $\alpha = 22^h50^m$, $\delta = 52^\circ00'$ (2000.0): USNO-A2.0 1350-17192645, USNO-A2.0 1350-17198343, USNO-A2.0 1350-17199697, USNO-A2.0 1425-13939144, USNO-A2.0 1350-17207598, USNO-A2.0 1425-13949887, USNO-A2.0 1350-17218427, USNO-A2.0 1350-17220793, USNO-A2.0 1350-17230762, USNO-A2.0 1425-13966722, USNO-A2.0 1425-13967363, USNO-A2.0 1350-17239215, USNO-A2.0 1350-17239702, USNO-A2.0 1350-17241785, USNO-A2.0 1350-17244002, USNO-B1.0 1419-0487235, USNO-A2.0 1425-13987292, USNO-A2.0 1350-17252891, USNO-A2.0 1350-17253968, USNO-A2.0 1350-17259303, USNO-A2.0 1425-14001125, USNO-A2.0 1425-14010609, USNO-A2.0 1350-17282067, USNO-A2.0 1425-14018219, USNO-A2.0 1350-17305073, USNO-A2.0 1350-17306000, USNO-A2.0 1350-17310049, USNO-A2.0 1350-17313693, USNO-A2.0 1350-17319681, USNO-A2.0 1425-14067896, USNO-A2.0 1350-17345022, USNO-A2.0 1350-17351160, USNO-A2.0 1350-17351498, USNO-A2.0 1425-14086971, USNO-A2.0 1425-14088119, USNO-A2.0 1350-17355140, USNO-A2.0 1350-17355834, USNO-A2.0 1350-17360385, USNO-A2.0 1350-17363925, USNO-A2.0 1425-14105519, USNO-A2.0 1350-17369900, USNO-A2.0 1425-14113477, USNO-A2.0 1350-17380826, USNO-A2.0 1350-17382504, USNO-A2.0 1425-14125534, USNO-A2.0 1425-14130260, USNO-A2.0 1425-14136755, USNO-A2.0 1350-17404323, USNO-A2.0 1350-17411993, USNO-A2.0 1425-14161205, USNO-A2.0 1350-17422866, USNO-A2.0 1350-17426944, USNO-A2.0 1350-17429837, USNO-A2.0 1350-17431663, USNO-A2.0 1350-17434003, USNO-A2.0 1350-17438587, USNO-A2.0 1350-17442261, USNO-A2.0 1425-14186854, USNO-A2.0 1350-17448745, USNO-A2.0 1350-17448915, USNO-A2.0 1350-17450856, USNO-A2.0 1425-14197351, USNO-A2.0 1350-17458822, EH Lac, USNO-A2.0 1350-17464743, USNO-A2.0 1350-17468965, USNO-A2.0 1425-14210652, USNO-

A2.0 1425-14211453, USNO-A2.0 1425-14214568, USNO-A2.0 1425-14215061, USNO-A2.0 1425-14218422, USNO-A2.0 1425-14220739, USNO-A2.0 1425-14221311, USNO-A2.0 1350-17502556, USNO-A2.0 1350-17503707, USNO-A2.0 1350-17508438, USNO-A2.0 1350-17508769, USNO-A2.0 1350-17508913, USNO-A2.0 1350-17510248, USNO-A2.0 1350-17512783, USNO-A2.0 1350-17520465, USNO-A2.0 1425-14274342, USNO-A2.0 1350-17534890, USNO-A2.0 1425-14279452, USNO-A2.0 1350-17544244, USNO-B1.0 1421-0524358, USNO-A2.0 1425-14287532, USNO-A2.0 1425-14292372, USNO-A2.0 1350-17552879, USNO-A2.0 1425-14294062, USNO-A2.0 1425-14295264, USNO-A2.0 1425-14298467, USNO-A2.0 1350-17564898, USNO-A2.0 1350-17565363, USNO-A2.0 1350-17566558, USNO-A2.0 1350-17568376, USNO-A2.0 1350-17568887, USNO-A2.0 1425-14312908, USNO-A2.0 1350-17577209, USNO-A2.0 1350-17585263, USNO-A2.0 1425-14326735, USNO-A2.0 1350-17595204, USNO-A2.0 1350-17596482, USNO-A2.0 1350-17598362, USNO-A2.0 1350-17600274, USNO-A2.0 1350-17602418, USNO-A2.0 1425-14345657, USNO-A2.0 1350-17607300.

Levitan, D. et al. (13 authors) 2013, MNRAS 430, 996. (1aoi, 2abc, 6b, 7d) Palomar Transit Factory (PTF) transient search used to identify 5 new outbursting AM CVn systems plus one candidate: PTF1 J043517.73+002940.7, PTF1 J085724.27+072946.7, PTF1 J094329.59+102957.6, PTF1 J152310.71+184558.2, PTF1 J163239.39+351107.3, PTF1 J221910.09+313523.1.

Reis, R.C. et al. (4 authors) 2013, MNRAS 430, 1994. (2dx) Swift x-ray data of 20 non-magnetic CVs give lower 0.5-10 keV luminosity than previously found; spectral properties suggest significant contribution of such CVs to galactic ridge emission: SDSS 0131−0901, SDSS 0137−0912, SDSS 0843+2751, SDSS 0904+0355, SDSS 0904+4402, SDSS 0919+0857, SDSS 1137+0148, SDSS 1238−0339, SDSS 1339+4847, SDSS 1457+5148, SDSS 1501+5501, SDSS 1507+5230, SDSS 1556−0009, SDSS 1610−0102, SDSS 1702+3229, SDSS 2048−0610, ASAS 0025+1217, PQ And, RE 1255+266, V455 And.

Sahlmann, J., Fekel, F.C. 2013, A&A 556, 145. (4c) Astrometric mass ratios for three SBs: HD 140667, HD 158222, HD 217924.

Schmidtke, P.C., Cowley, A.P., Udalsky, A. 2013, MNRAS 431, 252. (1ao*, 5bc) MACHO and OGLE photometry of 50 SMC Be/X-ray pulsars used to determine orbital periods and pulsational variability.

Schramm, M. et al. (10 authors) 2013, ApJ 773, 150. (1x*) LMXB BH candidates discovered with x-rays in population of galaxies.

Sergey, I. 2013, PZP 13, 9. (6c) Seventeen new variable stars: GSC 01729-00218, GSC 02822-01999, GSC 02818-00684, GSC 02859-00340, GSC 03339-01484, GSC 03339-00471, GSC 02892-00904, GSC 02910-00277, GSC 02930-02112, GSC 02970-01622, GSC 02970-00067.

Shanti Priya, D. et al. (4 authors) 2013, BASI 41, 159. (1ao*, 5abc, 6ac) Photometric study of 20 hot OGLE contact binaries in SMC.

Solovyov, V. et al. (4 authors) 2013, PZP 13, 10. (1a, 6c) New variable stars at the border of Ophiuchus and Serpens: USNO-A2.0 0900-12941846, 2MASS 18290128+0319587, 2MASS 18290864+0254162, USNO-A2.0 0900-12962061, USNO-A2.0 0900-13077017.

Szabados, L. et al. (9 authors) 2013, MNRAS 430, 2018. (1ao*, 2ao, 6b) RV variations of 6 southern galactic cepheids suggest membership in SBs, however not sufficient information to derive orbital elements; binary frequency of cepheids important for calibration of P-L relation: GH Car, V419 Cen, V898 Cen, AD Pup, AY Sgr, ST Vel.

Van den Berg, M. et al. (6 authors) 2013, ApJ 770, 98. (2xo) Chandra x-ray discovery of interacting binaries in open cluster NGC 6791.

Williams, B.F. et al. (5 authors) 2013, ApJ 772, 12. (1a*u*o*x*) Ages of HMXBs in NGC 2403 and NGC 300.

Yang, Y.-G. et al. (5 authors) 2013, PASJ 65, 45. (1ao, 5abce) New photometric models of four near-contact binaries: AK CMi, EP Cas, FG Gem, and DF Pup.

Proceedings of Conferences, Symposia, and Monographs

IAU Commission 42

BIBLIOGRAPHY OF CLOSE BINARIES

No. 97, December 2013

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