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Commission 42

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

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

1. Photometric data

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

2. Spectroscopic data

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

3. Polarimetry

- a. Broad-band b. Spectropolarimetry

4. Astrometry

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

5. Derived results

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

6. Catalogues, discoveries, charts

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

7. Observational techniques

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

8. Theoretical investigations

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

9. Statistical investigations

10. Miscellaneous

- a. Abstract b. Addenda or errata

Abbreviations

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|----|----------------------|------|------------------------|-----|----------------------------|
| 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) *Atapın, 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) *Ingram, 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 Br α 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.

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| | <i>Massi, M., Jaron, F., Hovatta, T.</i> 2015, A&A 575, L9. (2dx, 4cr) Confirmation of the two close periodicities in the HMXB. |
| | <i>Paredes-Fortuny, X. et al.</i> (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 | <i>Samec, R.G., Koenke, S.S., Faulkner, D.R.</i> 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) | <i>Postnov, K.A. et al.</i> (6 authors) 2015, MNRAS 446, 1013. (1gx, 5cgj, 8d) Spin-up/spin-down of NS in binary system. |
| CQ Cep | <i>Skinner, S.L. et al.</i> (4 authors) 2015, ApJ 799, 124. (1x, 2x) Near-contact WN6+O9 EB. |
| δ Cir | <i>Mayer, P. et al.</i> (4 authors) 2014, AJ 148, 114. (1o*, 2a, 5adf) Apsidal motion in O-type binary with possibly binary third component. |
| BY Cir (Nova 1995) | <i>Sanad, M.R.</i> 2014, JApA 35, 715. (2cu, 5ej) Ultraviolet spectroscopic study from IUE satellite. |
| RT CrB | <i>Xiang, F.-Y., Xiao, T.-Y., Yu, Y.-X.</i> 2015, PASJ 67, 12. (1ao, 2ao, 5abcdeg) Starspot activity and period change. <i>Zhang, W.X., Ran, M.W., Feng, Y.G.</i> 2014, Ap&SS 354, 409. (5ab) Third body in RS CVn-type EB? |
| CH Cyg | <i>Rspaev, F. Kondratyeva, L. Aimuratov, E.</i> 2014, IBVS No. 6117. (1a, 2b, 5d) New brightening in 2014. |
| V444 Cyg | <i>Lomax, J.R. et al.</i> (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 | <i>Page, K.L. et al.</i> (6 authors) 2014, A&A 570, A37. (2dux) Observations in an optical high state. |
| V1341 Cyg (Cyg X-2) | <i>Suárez-Andrés, L. et al.</i> (5 authors) 2015, MNRAS 447, 2261. (2abc, 5degh, 8a) Chemical abundances of the secondary star. |
| V1357 Cyg (Cyg X-1) | <i>Čechura, J., Hadrava, P.</i> 2015, A&A 575, A5. (8ad) Stellar wind in state transitions of the HMXB. <i>Sell, P.H. et al.</i> (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) | <i>Reig, P. et al.</i> (5 authors) 2014, MNRAS 445, 4235. (3a, 5cg) High optical polarization. |
| V2294 Cyg | <i>Liska, J.</i> 2014, IBVS No. 6119. (5ab) Light-time effect. |
| V339 Del (Nova 2013) | <i>Schaefer, G.H. et al.</i> (37 authors) 2014, Nature 515, 234. (4co) Post-outburst expansion of classical nova. <i>Shore, S.N. et al.</i> (4 authors) 2014, A&A 570, L4. (2do, 5g) On the Raman O VI and related lines in classical nova. <i>Tajitsu, A. et al.</i> (5 authors) 2015, Nature 518, 381. (2cdo, 5h) Explosive Li production in classical nova. |
| AB Dor B (Rst 137B) | <i>Wolter, U. et al.</i> (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 | <i>Feiden, G.A., Chaboyer, B.</i> 2014, A&A 571, A70. Revised age and resolution of the model-observation radius discrepancy. |
| OO Dra | <i>Zhang, X.B. et al.</i> (11 authors) 2014, AJ 148, 106. (1ao, 5abcg) Pulsating EB. |

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| ZZ Eri | <i>Samec, R.G. et al.</i> (4 authors) 2015, AJ 149, 48. (1ao, 5abc) Pre-contact W UMa system with spots and possible third body. |
| WW Gem | <i>Yang, Y.G. et al.</i> (4 authors) 2014, AJ 148, 90. (1ao, 5abc) Near-contact B-type EB with possible mass exchange and third body. |
| YY Gem | <i>Butler, C.J. et al.</i> (11 authors) 2015, MNRAS 446, 4205. (1oiurx, 5abceg) A multiwavelength study. |
| OU Gem (HD 45088) | <i>Glazunova, L.V. et al.</i> (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 | <i>Mayer, A. et al.</i> (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 | <i>Kolbas, V. et al.</i> (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) | <i>Leahy, D.A., Abdallah, M.H.</i> 2014, ApJ 793, 79. (2dx, 5eg) Constraints on the properties of the visible star, mass of NS. <i>Staubert, R. et al.</i> (8 authors) 2014, A&A 572, A119. (2dx*) Long-term change in cyclotron-line energy in LMXB. |
| V404 Her (CzeV404) | <i>Bakowska, K. et al.</i> (5 authors) 2014, AcA, 64, 337. (1a, 5ab, 6d) Eclipsing dwarf nova in the period gap. |
| V501 Her | <i>Lacy, C.H.S., Fekel, F.C.</i> 2014, AJ 148, 71. (1ao, 2a, 5abcde) Precise masses and radii; age and evolutionary status. |
| IL Lup (4U 1543–47) | <i>Morningstar, W.R., Miller, J.M.</i> 2014, ApJL 793, L33. (2dx, 5k) Measurement of spin parameter of BH. |
| RR Lyn | <i>Bensch, K. et al.</i> (15 authors) 2014, IBVS No. 6121. (2a, 5d) Spectroscopy of multiple EB. |
| EZ Lyn | <i>Isogai, M. et al.</i> (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. <i>Pavlenko, E.P. et al.</i> (8 authors) 2014, PASJ 66, 113. (1ao, 5cij) Dwarf nova second visit to instability strip. |
| OT Lyr | <i>Agerer, F.</i> 2014, IBVS No. 6123. (1a, 5a) Pulsating component in EB. |
| AU Mon | <i>Mennickent, R.E.</i> 2014, PASP 126, 821. (8acd) System with non-conservative mass transfer. |
| V640 Mon (HD 47129) | <i>Palate, M., Rauw, G.</i> 2014, A&A 572, A16. (2aco, 5g) Short-term spectroscopic variability in massive SB. |
| V838 Mon | <i>Loebman, S.R. et al.</i> (14 authors) 2015, AJ 149, 17. (1ai, 2di, 5ghj) Spectral types and spectral evolution in the optical to infrared region. |
| V959 Mon | <i>Chomiuk, L. et al.</i> (19 authors) 2014, Nature 514, 339. (4cr) γ -ray emission and mass ejection from classical nova. |
| QV Nor (4U 1538–52) | <i>Rodes-Roca, J.J. et al.</i> (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) | <i>Putanen, J., Veledina, A., Revnivtsev, M.G.</i> 2014, MNRAS 445, 3987. (1aoix, 5cgi) Infrared flares from the hot AD. |

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

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| NP Ser (GX 17+2) | <i>Bu, Q.-C. et al.</i> (6 authors) 2015, ApJ 799, 2. (1x) Horizontal-branch oscillations and break components of NS LMXB. |
| NY Ser | <i>Pavlenko, E.P. et al.</i> (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) | <i>Coti Zelati, F. et al.</i> (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 | <i>Dutrey, A. et al.</i> (14 authors) 2014, Nature 514, 600. (4cr) Planet formation in multiple system. <i>Itoh, Y. et al.</i> (50 authors) 2014, RAA 14, 1438. (3ao, 5e) Near-infrared polarimetry of the GG Tauri A binary system. |
| V725 Tau (HDE 245770) | <i>Giovannelli, F. et al.</i> (6 authors) 2015, AcA, 65, 107. (1aox, 5i) Optical and x-ray behaviour of HMXB in 2014. |
| 16 UMa | <i>Fekel, F.C. et al.</i> (6 authors) 2015, AJ 149, 63. (2ao, 4b*, 5de) Secondary spectrum detected and measured. |
| AW UMa | <i>Rucinski, S.M.</i> 2015, AJ 149, 49. (2do, 5ghijk) Detailed atmospheric study with rapid sequence of high-resolution spectra. |
| KV UMa (XTE J1118+480) | <i>Gallo, E. et al.</i> (10 authors) 2014, MNRAS 445, 290. (1rx, 5bcgi) The radio/x-ray domain of the BH x-ray binary. <i>Plotkin, R.M. et al.</i> (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 | <i>Prasad, V. et al.</i> (4 authors) 2014, Ap&SS 353, 575. (1ao, 5abc) Photometric studies of W UMa-type binary. |
| GP Vel (Vel X-1) | <i>Manousakis, A., Walter, R.</i> 2015, A&A 575, A58. (2dx*, 5i, 8ad) Origin of the x-ray off-states in the HMXB. <i>Sidoli, L. et al.</i> (7 authors) 2015, MNRAS 447, 1299. (1x, 5cg, 8a) Probing large-scale wind structures. |
| KQ Vel (HD 94660) | <i>Bailey, J.D., Grunhut, J., Landstreet, J.D.</i> 2015, A&A 575, A115. (3bo, 5ch, 6b) Ap star hosts a massive compact companion. |
| AH Vir | <i>Chen, M. et al.</i> (4 authors) 2015, RAA 15, 275. (1abo, 5abc) Study of orbital period variations. |
| HT Vir | <i>Bensch, K. et al.</i> (15 authors) 2014, IBVS No. 6121. (2a, 5d) Spectroscopy of multiple EB. |
| NY Vir | <i>Lee, J.W. et al.</i> (4 authors) 2014, MNRAS 445, 2331. (1ao, 5abceg, 8a) Search for circumbinary planets. |
| UY Vol (EXO 0748–676) | <i>Ponti, G., Muñoz-Darias, T., Fender, R.P.</i> 2014, MNRAS 444, 1829. (1x*, 5i) Relation between Fe K absorption and hard/soft state of accreting NS in x-ray binary. |
| ER Vul | <i>Xiang, Y. et al.</i> (4 authors) 2015, MNRAS 447, 567. (2ab, 5deg, 8a) Doppler images showing strong starspot activities. |

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

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| HR 2692 | <i>Fekel, F.C. et al.</i> (6 authors) 2015, AJ 149, 63. (2ao, 4b*, 5de) Secondary spectrum detected and measured. |
| HD 5980 | <i>Koenigsberger, G. et al.</i> (8 authors) 2014, AJ 148, 62. (2ado, 5de) High-mass quadruple system in SMC. |

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| HD 12889 (ADS 1652) | <i>Tokovinin, A., Gorynya, N.A., Morrell, N.I.</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 | <i>Sperauskas, J. et al.</i> (5 authors) 2014, A&A 570, A3. (1abo*, 2ao, 5cdeg) A yellow supergiant in a SB system. |
| HD 54381 | <i>Fekel, F.C. et al.</i> (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 | <i>Davies, D.</i> 2015, PZP 15, 1. (1a, 5c) Period solution for “Unsolved Variable” HD 139388. |
| HD 181068 | <i>Czesla, S. et al.</i> (4 authors) 2014, A&A 570, A115. (1ao, 2dox) A hierarchical triple RS CVn with a dwarf-binary companion. |
| HD 183648 (KIC 8560861) | <i>Borkovits, T. et al.</i> (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 | <i>Fekel, F.C.</i> 2015, AJ 14, 83. (2ao, 5d) Spectroscopic triple system. |
| HD 217411 (EUV 2RE J2300–07.0) | <i>Holberg, J.B. et al.</i> (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 | <i>Johnson, C.B. et al.</i> (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) | <i>Stoyanov, K.A. et al.</i> (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) | <i>Tam, P.H.T et al.</i> (6 authors) 2015, ApJ 798, L26. (1x, 2x) Observations through periastron passage. |
| CPD –64°481 | <i>Schaffneroth, V. et al.</i> (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

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| 1SWASP J011351.29+314909.7 | <i>Gómez Maqueo Chew, Y. et al.</i> (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) | <i>Sturm, R. et al.</i> (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 | <i>Silva, K.M.G. et al.</i> (7 authors) 2014, RMxAC 44, 56. (1ao, 3o, 10a) New eclipsing polar above period gap. |

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| 2MASS J0227637+1156494 | <i>Liu, L. et al.</i> (7 authors) 2015, AJ 149, 111. (1ao, 5ce) Contact binary of very short P; correct identification. |
| PM I 03338+3320 | <i>Skinner, J.N., Thorstensen, J.R., Lépine, S.</i> 2014, AJ 148, 115. (2ao, 5d, 6b) New CV discovered in high-proper-motion survey; see also Collections of Data. |
| PSR J0337+1715 | <i>Rafikov, R.R.</i> 2014, ApJ 794, 76. (5f, 8c) Origin and orbital future of triple system. |
| Galex J045456.8–702656 (Nova LMC 2012) | <i>Schwarz, G.J. et al.</i> (12 authors) 2015, AJ 149, 95. (1ouxi, 2ox, 5bgj) Fast nova appears to be U Sco-type recurrent dwarf nova. |
| Swift J0513.4–6547 | <i>Coe, M.J. et al.</i> (4 authors) 2015, MNRAS 447, 1630. (1aogx, 2bc, 5bcdeg) A new Be/x-ray binary in LMC. |
| RX J0520.5–6932 | <i>Tendulkar, S.P. et al.</i> (14 authors) 2014, ApJ 795, 154. (2cx) Observation of cyclotron line, measurement of magnetic field. |
| 2FGL J0523.3–2530 | <i>Xing, Y., Wang, Z., Ng, C.-Y.</i> 2014, ApJ 795, 88. (1aio, 2dx) Confirmation of binary millisecond pulsar. |
| 1RXS J053855.6–640457 (LMC X-3) | <i>Orosz, J.A. et al.</i> (8 authors) 2014, ApJ 794, 154. (1a, 2a, 5cde) Mass measurements for companion star, BH. <i>Steiner, J.F., et al.</i> (7 authors) 2014, ApJL 793, L29. (2dx, 5k) Measure of spin parameter of BH. |
| 2MASS J05393883–6944356 (LMC X-1) | <i>Alam, Md.S. et al.</i> (5 authors) 2014, MNRAS 445, 4259. (1x,5cgi, 8a) Millihertz QPOs and broad iron line. |
| 4U 0614+091 | (see V1055 Ori) |
| 1RXS J063631.9+353537 | (see V647 Aur) |
| CSS 081231:071126+440405 | <i>Schwope, A.D. et al.</i> (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 | <i>Nakata, C. et al.</i> (18 authors) 2014, PASJ 66, 116 (1ao, 5cij) Promising candidate for the period bouncer. |
| ASAS J082243+1927.0 | <i>Kandulapati, S., Devarapali, S.P., Pasaqada, V.R.</i> 2015, MNRAS 446, 510. (1ao, 2c, 5abceg, 8d) Photometry and H α studies. |
| SDSS J090221.35+381941.9 | <i>Kato, T. et al.</i> (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 (US 708) | <i>Geier, S. et al.</i> (20 authors) 2015, Science 347, 1126. (2do, 4ao) The fastest unbound star in our galaxy ejected by a thermonuclear SN Ia in a CB. |
| NuSTAR J095551+6940.8 | <i>Bachetti, M. et al.</i> (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 | <i>Coley, J.B. et al.</i> (4 authors) 2014, ApJ 793, 77. (2cdx, 5e) Donor star is B0 V or B0-5 III. |
| XSS J1227.0–4859 (2FGL J1227.7–4853) (PSR J1227–4853) | <i>de Martino, D. et al.</i> (9 authors) 2014, MNRAS 444, 3004. (1aio, 2abcdo, 5bi) LMXB studied by optical photometric and spectroscopic observations in low and high states. |

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| XMMU J122939.7+075333 | <i>Roy, J. et al.</i> (15 authors) 2015, ApJ 800, L12. (1r) Discovery and observations of transition from a LMXB to a redback MS pulsar. |
| PSR B1259–63/LS 2883 | <i>Joseph, T.D. et al.</i> (4 authors) 2015, MNRAS 447, 1460. (1x, 5ceg) Short-term variability from the first globular cluster BH binary. (see CPD –63°2495) |
| 2MASS J13142039+1320011 (NLTT 33370 AB) | <i>Williams, P.K.G. et al.</i> (5 authors) 2015, ApJ 799, 192. (1aroux, 2o) Multiwavelength observations of magnetic activity in ultracool dwarfs. |
| MASTER OT J132104.04+560957.8 | <i>Littlefield, C. et al.</i> (7 authors) 2015, IBVS No. 6129. (1a, 2c, 5b) High-amplitude and rapid photometric variation of new polar. |
| Swift J1357.2–0933 | <i>Armas Padilla, M. et al.</i> (6 authors) 2014, MNRAS 444, 902. (1ax, 5i) LMXB with faintest observed BH component; distance uncertain. <i>Weng, S.-S., Zhang, S.-N.</i> 2015, MNRAS 447, 486. (1ux, 5cgi) Multiwavelength light-curve evolution during its 2011 outburst. |
| SDSS J141126.20+200911.1 | <i>Littlefair, S.P. et al.</i> (17 authors) 2014, MNRAS 445, 2106. (1aoi, 2a, 5bcdeg) Confirmation of substellar nature of the companion. |
| PSR B1509–58 | <i>Pradhan, P. et al.</i> (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 | <i>Marted, P.F.L. et al.</i> (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 | <i>Choudhury, M., Bhatt, N., Bhattacharyya, S.</i> 2015, MNRAS 447, 3960. (1x, 5cgi, 8a) The QPO states during the 2002-2004 outburst. |
| WD 1633+572 | <i>Feiden, G.A., Chaboyer, B.</i> 2014, A&A 571, A70. Revised age and resolution of the model-observation radius discrepancy. |
| 1RXS J163403.0–472344 (Nor X-1) | <i>Díaz Trigo, M. et al.</i> (4 authors) 2014, A&A 571, A76. (2dx, 5gi) Disappearance of wind in LMXB. |
| 4U 1636–53 | (see V801 Ara). |
| IGR J16393–4643 | <i>Islam, N. et al.</i> (4 authors) 2015, MNRAS 446, 4148. (1x, 5ceg) A Suzaku view on the system. |
| 2FGL J1653.6–0159 | <i>Kong, A.K.H. et al.</i> (11 authors) 2014, ApJL 794, L22. (2dx, 5bk, 6c) Millisecond pulsar binary candidate. |
| MAXI J1659–152 | <i>Rao Jassal, A., Vadawale, S.V.</i> 2015, RAA 15, 45. (1ax, 2dx, 5ei) Variation of the inner disk radius during the onset of the 2010 outburst. |
| XTE J1701–462 | <i>Bu, Q.-C. et al.</i> (6 authors) 2015, ApJ 799, 2. (1x) Horizontal-branch oscillations and break components of NS LMXB. |
| IGR J17091–3624 | <i>Janiuk, A. et al.</i> (4 authors) 2015, A&A 574, A92. (2dx, 5gj) Interplay between heartbeat oscillations and wind outflow in the LMXB. |
| GALEX J171708.5+675712 | <i>Hermes, J.J. et al.</i> (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 | <i>Bozzo, E. et al.</i> (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 | <i>Barrière, N.M. et al.</i> (14 authors) 2015, ApJ 799, 123. (1x, 2x) Type I x-ray burst from faint NS LMXB burster. |

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| GRO J1744–28 | <i>Degenaar, N. et al.</i> (6 authors) 2014, ApJL 796, L9. (2cdx, 5i) Estimate of magnetic field strength. |
| XMM J174457–2850.3 | <i>Heinke, C.O. et al.</i> (4 authors) 2015, MNRAS 447, 3034. (1x, 5cgi, 8a) Analysis of outburst LCs. |
| CXOGC J174540.0–290005 | <i>Heinke, C.O. et al.</i> (4 authors) 2015, MNRAS 447, 3034. (1x, 5cgi, 8a) Analysis of outburst LCs. |
| AX J1745.6–2901 | <i>Pondi, G. et al.</i> (20 authors) 2015, MNRAS 446, 1536. (1x, 5cgi) On the Fe K absorption - accretion state connection. |
| 4U 1746–37 | <i>Li, Z. et al.</i> (5 authors) 2015, ApJ 798, 56. (1x, 2x) Ultra-low-mass and small-radius compact object. |
| 1RXS J174755–263352 (GX 3+1) | <i>Van den Berg, M. et al.</i> (4 authors) 2014, ApJ 793, 128. (1ai, 2dx, 4a, 6c) Discovery of near infrared counterpart; mass donor probably is not late-type giant. |
| IGR J17480–2446 | <i>Bonanno, A., Urpin, V.</i> 2015, A&A 574, A63. (8c) New class of LMXB. |
| SAX J1750.8–2900 | <i>Allen, J.L. et al.</i> (4 authors) 2015, ApJ 801, 10. (1x, 2x) Spectral softening in the NS LMXB. |
| Swift J1753.5–0127 | <i>Neustroev, V.V. et al.</i> (6 authors) 2015, MNRAS 446, 1041. (1au, 2ac, 5bcdgi) Spectroscopic evidence for a low-mass BH. <i>Yoshikawa, A. et al.</i> (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 | <i>Bhalerao, V. et al.</i> (19 authors) 2015, MNRAS 447, 2274. (1x, 5cg) Detection of a cyclotron line in the system. |
| PSR J1756–2251 | <i>Ferdman, R.D. et al.</i> (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) | <i>Sanchez-Bermudez, J. et al.</i> (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) | <i>Li, Z. et al.</i> (6 authors) 2015, ApJ 798, 56. (1x, 2x) Ultra-low-mass and small-radius compact object. <i>Peuten, M. et al.</i> (4 authors) 2014, ApJ 795, 116. (2dx, 5i) Estimate of distance, BH mass. |
| 2MASS J18571534+5116316 | <i>Guo, D.-F. et al.</i> (6 authors) 2014, PASJ 66, 100. (1ao, 5abc, 6b) Discovery of a W?UMa type binary GSC 03553–00845. |
| 2MASS J18593119+4916011 (KOI 189) | <i>Díaz, R. F. et al.</i> (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) | <i>Telting, J. H., et al.</i> (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) | <i>Yamaguchi, H. et al.</i> (11 authors) 2015, ApJ 801, L31. Ni and Mn abundances indicate progenitor is a WD + MS star binary. (1ix, 2x) |
| PSR J1906+0746 | <i>van Leeuwen, J. et al.</i> (16 authors) 2015, ApJ 798, 118. (1r) Binary companion of a relativistic pulsar. |
| IRAS 19108+1541 (Hen 2-428) | <i>Santander-Garcia, M. et al.</i> (8 authors) 2015, Nature 519, 63. (1ao, 2ao, 5cde) PN with double-degenerate, super-Chandrasekhar nucleus. |

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| IGR J19149+1036 | <i>Cusumano, G. et al.</i> (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) | <i>Lee, J.W., Hong, K., Hinse, T.C.</i> 2015, AJ 149, 93. (1ao, 5abc) Algol system with substellar companion. |
| 2MASS J19293152+3804359 (KIC 2856960) | <i>Marsh, T.R., Armstrong, D.J., Carter, P.J.</i> 2014, MNRAS 445, 309. (1ao, 2b, 5abcg) Impossible triple star. |
| 2MASS J19415419+4437173 (KIC 8569819) | <i>Kurtz, D.W. et al.</i> (5 authors) 2015, MNRAS 446, 1223. (1ao, 5abceg) Validation of the frequency modulation technique applied to the system. |
| 2MASS J19472178+4338496 (KOI 686) | <i>Díaz, R. F. et al.</i> (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) | <i>Bulut, I., Bulut, A.</i> 2015, AcA, 65, 127. (1a, 5abcf) BVR photometric analysis. |
| EXO 2030+375 | (see V2246 Cyg) |
| DENIS J203137.5-000511 (USNO-A2.0 0825-18396733) | <i>Gabdeev, M.M. et al.</i> (4 authors) 2015, ARep 59, 213 (1a, 2ac, 5cdei) Spectroscopic and photometric studies of polar. |
| SDSS J212531.92-010745.8 | <i>Shimansky, V.V. et al.</i> (6 authors) 2015, ARep 59, 199 (1a, 2abc, 5cdgh) Modelling the optical radiation of pre-CV. |
| PSR J2129-0429 | <i>Hui, C.Y. et al.</i> (10 authors) ApJ 801, L27. (1r) Intrabinary shock from redback ms pulsar. |
| 4U 2206+54 | (see BD +53°2790) |
| Swift J2218.4+1925 | <i>Bernardini, F. et al.</i> (4 authors) 2014, MNRAS 445, 1403. (1aoix, 5cgi) A new hard-x-ray-selected polar. |
| 2MASS J22251603+4127520 (GSC 3208 1986) | <i>Samec, R.J. et al.</i> (5 authors) 2015, AJ 149, 90. (1aoi, 2b, 5c) W UMa system with extreme mass ratio and relatively early type. |
| HS 2231+2241 | <i>Almeida, L.A. et al.</i> (5 authors) 2014, RMxAC 44, 35. (1ao, 2a, 5cde, 10a) HW Vir-type system with brown dwarf companion. |
| 2MASS J22380235+6727583 (GSC 4277-0586) | <i>Bulut, I., Bulut, A.</i> 2015, AcA, 65, 127. (1a, 5abc) BVR photometric analysis. |
| 1E 2259+586 | <i>Nakano, T. et al.</i> (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 | <i>Nakata, C., et al.</i> (18 authors) 2014, PASJ 66, 116 (1ao, 5cij) Promising candidate for the period bouncer. |
| HE 2316-0909 (PHL 457) | <i>Schaffneroth, V. et al.</i> (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

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

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| Holmberg IX X-1 | <i>Walton, D.J. et al.</i> (19 authors) 2014, ApJ 793, 21. (2cu,5i) Modelling of the disk from UV spectra. |
| IC 10 X-1 | <i>Laycock, S.G., Cappallo, R.C., Moro, M.J.</i> 2015, MNRAS 446, 1399. (1x, 2ao, 5bceg) <i>Chandra</i> and <i>XMM</i> monitoring. |
| IC 342 X-1 | <i>Agrawal, V.K., Nandi, A.</i> 2015, MNRAS 446, 3926. (1x, 5ceg) Discovery of a QPO. <i>Marlowe, H. et al.</i> (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 | <i>Barnard, R., Garcia, M.R., Murray, S.S.</i> 2015, ApJ 801, 65. (1x) Super-orbital period ~ 5.7 -day in M31 x-ray binary. |
| NGC 3384 X-8 | <i>Devi, A.S., Singh, K.Y.</i> 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

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| 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 | <i>Gorda, S.Yu., Lyaptsev, A.R., Sobolev, A.M.</i> 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 | <i>Lasota, J.-P., King, A.R., Dubus, G.</i> 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) |

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| NGC 7789 V12 | <i>Qian, S.B. et al.</i> (7 authors) 2015, AJ 149, 38. (1ao, 5abc) Totally eclipsing contact binary in cluster. |
| NGC 7793 P13 | <i>Motch, C. et al.</i> (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 | <i>Jung, Y.K. et al.</i> (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) | <i>Diehl, R. et al.</i> (10 authors) 2015, A&A 574, A72. (2acd, 5j) γ -rays from the ^{56}Ni decay chain. |
| | <i>Marion, G.H. et al.</i> (26 authors) 2015, ApJ 798, 39. (1oi, 2abch, 6b) Early observations and analysis of a type Ia SN. |
| SN iPTF13bvn | <i>Bersten, M.C. et al.</i> (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 | <i>Liakos, A., Cagaš, P.</i> 2014, Ap&SS 353, 559. (1ao, 5abc) Frequency analysis for 3 EBs with pulsating components. |
| USNO-A2.0 1200-03937339 | <i>Liakos, A., Cagaš, P.</i> 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)
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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.

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IAU Commission 42

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