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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

| | | | | | |
|----|----------------------|------|------------------------|-----|----------------------------|
| 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

- UU And *Manzoori, D., Abbasvand, S., Najafinezhad, S.* 2015, AN 336, 570. (1ao*, 5bcej) LC analysis of WASP data gives absolute parameters; O-C analysis suggests magnetic activity cycle and mass transfer.
- LO And *Nelson, R.H., Robb, R.M.* 2015, IBVS No. 6134. (1a, 5abcd) W-type overcontact EB.
- V455 And *Kononov, D.A. et al.* (4 authors) 2015, ARep 59, 191. (1a, 8ad) A possible mechanism for the formation of humps in the orbital LCs of WZ Sge CVs.
- HU Aqr *Goździewski, K. et al.* (14 authors) 2015, MNRAS 448, 1118. (1ao, 5ab) Eclipse timing data of magnetic CV over 21 years analyzed; O-C data suggest presence of non-coplanar planetary system.
- IO Aqr *Graczyk, D. et al.* (14 authors) 2015, A&A 581, 106. (1o*, 2ao, 5abcde) Precise masses and radii of close pair in triple system.
- CI Aql *Caleo, A., Shore, S.N.* 2015, MNRAS 449, 25. (5i, 8d) Model to explain why the optical decline rate of recurrent nova with short period is slower than those of longer period systems.
- V603 Aql
(Nova 1918) *Sion, E., Godon, P., Bisol, A.* 2015, AJ 150, 36. (2du, 5j) Mass exchange in old nova by far-uv spectroscopy with IAU, HST, FUSE.
- V1333 Aql
(Aql X-1) *Messenger, C., Patruno, A.* 2015, ApJ 806, 261. (1x*, 2x*) Search for weak pulsations in LMXB.
Zhang, W., Yu, W. 2015, ApJ 805, 139. (2dx) Determination of mass function and mass ratio.
- V1408 Aql
(4U 1957+115) *Gomez, S., Mason, P.A., Robinson, E.L.* 2015, ApJ 809, 9. (1ao) Observations of low-mass BH in LMXB.
- V1432 Aql *Littlefield, C. et al.* (11 authors) 2015, MNRAS 449, 3107. (1ao, 5abcegi) Evidence of a shifting threading region.
- V1487 Aql
(GRS 1915+105) *Šrámková, E. et al.* (8 authors) 2015, A&A 578, A90. (5i) BH spin inferred from 3:2 epicyclic resonance model of high-frequency QPO.
- V349 Ara *Erdem, A. et al.* (4 authors) 2015, PASA 32, 28. (1ao, 2co, 5bcde) Absolute parameters of southern detached binary.
- V821 Ara
(GX 339-4) *Altamirano, D., Méndez, M.* 2015, MNRAS 449, 4027. (1x, 5cgi, 8a) The evolution of the x-ray phase lags during the outbursts.
Fürst, F. et al (22 authors) 2015, ApJ 808, 122. (1x, 2x) Accretion geometry during outburst of BH binary.
Ludlam, R.M., Miller, J.M., Cackett, E.M. 2015, ApJ 806, 262. (2x) Spin value of LMXB confirmed.
- ε Aur *Kloppenborg, B.K.* 2015, ApJS 220, 14. (4c, 5i) Characterization of the asymmetric eclipsing disk.
- RW Aur *Dai, F. et al.* (4 authors) 2015, MNRAS 449, 1996. (5ij, 8abd) Hydrodynamical model for star-disc fly-by.
- TY Boo *Elkhateeb, M.M., Nouh, M.I., Saad, A.-N.S.* 2015, RAA 15, 501. (1a, 5abc) Modern comprehensive study of W UMa system.
- UW Boo *Manzoori, D.* 2015, Ap&SS 357, 43. (1ao, 5ce) Semidetached EB.
- AC Boo *Nelson, R.H.* 2015, IBVS No. 6142. (5b) Updated period analysis.
- GN Boo † *Wang, J.J. et al.* (9 authors) 2015, AJ 149, 164. (1ao, 5abc) Late-type, very short-period contact binary with probable companion.

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| HR Boo | <i>Samec, R.G. et al.</i> (6 authors) 2015, AJ 149, 164. (1aoi, 5abc) Extreme mass-ratio binary. |
| NZ Boo (SDSS J150240.98+333423.9) | <i>Khruzina, T.S., Voloshina, I.B.</i> 2015, ARep 59, 366 (1a, 5bci) Photometric behaviour of the CV in quiescence. |
| BQ Cam (V 0332+53) | <i>Lutovinov, A.A. et al.</i> (7 authors) 2015, MNRAS 448, 2175. (1x, 2dx, 5i) RXTE observations during outburst of transient x-ray pulsar show spectral variations correlated with pulse phase and luminosity. |
| η Car | <i>Madura, T.I. et al.</i> (5 authors) 2015, MNRAS 449, 3780. (8abc) Deciphering the structure of inner colliding winds. <i>Mehner, A. et al.</i> (11 authors) 2015, A&A 578, A122. (2diou, 5ij) The 2014.6 spectroscopic event: clues to the long-term recovery from its Great Eruption. <i>Reitberger, K. et al.</i> (4 authors) 2015, A&A 577, A100. (2dg) The first full orbit seen by Fermi. |
| WW Car | <i>Kovtyukh, V. et al.</i> (5 authors) 2015, MNRAS 448, 3567. (2aco, 6b) Discovery of blue companion to cepheid by means of Ca II H+K lines. |
| OY Car | <i>Spark, M.K., O'Donoghue, D.</i> 2015, MNRAS 449, 175. (1ao, 5i, 7b) LCs with high signal-to-noise and high time resolution obtained with SALTICAM in contrast to previously proposed surface brightness distribution of dwarf nova boundary layer and WD. |
| V574 Car (WR 30a) | <i>Zhekov, S.A., Skinner, S.L.</i> 2015, MNRAS 452, 872. (1x, 5cg) X-rays from the oxygen-type WR binary. |
| TW Cas | <i>Khaliullina, A.I.</i> 2015, ARep 59, 717. (5bc) A third body as the origin of the orbital-period variations. |
| V615 Cas (LS I +61°303) | <i>Zimmerman, L., Fuhrmann, L., Massi, M.</i> 2015, A&A 580, L3. (2r) Observations of broad-band radio spectrum of flares in ourburst. |
| V850 Cen (GX 304-1) | <i>Malacaria, C. et al.</i> (4 authors) 2015, A&A 581, 121. (1x, 2x) X-ray spectral and timing properties during 2012 outburst. <i>Sugizaki, M. et al.</i> (5 authors) 2015, PASJ 67, 73. (1gx, 2dx, 5bci) Luminosity and spin-period evolution during outbursts from 2009 to 2013 observed with MAXI/GSC, RXTE/PCA, and Fermi/GBM. |
| V949 Cen | <i>Zasche, P. et al.</i> (4 authors) 2015, AcA 65, 151. (5abc) Study of triple system. |
| V1044 Cen | <i>Fekel, F.C. et al.</i> (4 authors) 2015, AJ 150, 48. (2ai, 5d) Symbiotic star. |
| V1200 Cen (ASAS J135218–3837.3) | <i>Coronado, J. et al.</i> (9 authors) 2015, MNRAS 448, 1937. (1ao*, 2ao, 5bcde) Orbital and LC solution of EB from ASAS survey; CB has close third component. |
| V490 Cep (Cep X-4) | <i>Fürst, F. et al.</i> (7 authors) 2015, ApJ 806, L24. (1x, 2x) Distorted cyclotron line profile. |
| <i>o</i> Cet + VZ Cet (Mira AB) | <i>Vlemmings, W.H.T. et al.</i> (7 authors) 2015, A&A 577, L4. (4cr, 5eg) Resolving the stellar activity in the AGB + WD symbiotic binary with ALMA. |
| DX Cha (HD 104237) | <i>Dunhill, A.C., Cuadra, J., Dougados, C.</i> 2015, MNRAS 448, 3545. (5i, 8b) SPH simulations of disc around young eccentric binary explain periodic accretion variability and precession of the disc. |
| YY CrB | <i>Yu, Y.-X., Xiang, F.-Y., Xiao, T.-Y.</i> 2015, PASJ 67, 42. (1ao, 5abc) Orbital period changes. |
| ϵ Cyg | <i>Gray, D.F.</i> 2015, ApJ 810, 117. (2a, 5de) Analysis of K0 III binary. |

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| BF Cyg | <i>Tomov, N.A., Tomova, M.T., Bisikalo, D.V.</i> 2015, AN 336, 690. (1ao*, 5i) Discussion of eclipses of the outbursting compact component of symbiotic system during its 2006–2015 optical outburst. |
| DK Cyg | <i>Lee, J.W. et al.</i> (4 authors) 2015, AJ 149, 194. (1ao, 2a*, 5abcde) Spots, mass transfer and light-time effect from possible brown dwarf third body. |
| V404 Cyg | <i>Petrov, V.S., Antokhina, E.A., Cherepashchuk A.M.</i> 2015, ARep 59, 346. (8ad) Taking into account the effects of component proximity on the spectral-line profiles of stars in LMXBs (see also General). <i>Rodriguez, J. et al.</i> (23 authors) 2015, A&A 581, L9. (2doxg, 5gj) Optical, x-ray and γ -ray observations of recent activity. |
| V407 Cyg | <i>Iijima, T.</i> 2015, Aj 150, 20. (1a*, 2cd) Spectral evolution in 2010 outburst of recurrent nova. |
| V1329 Cyg | <i>Arkipova, V.P. et al.</i> (4 authors) 2015, AstL 41, 128. (1b, 2c, 5cbij) Photometric and spectral evolution of the symbiotic EB at a late stage of its nova-like outburst. |
| V1357 Cyg (Cyg X-1) | <i>Čechura, J., Vrtilek, S.D., Hadrava, P.</i> 2015, MNRAS 450, 2410. (1x, 2c, 7cd) A novel method for interpreting the x-ray state transitions. <i>Grinberg, V. et al.</i> (11 authors) 2015, A&A 576, A117. (2dx, 5ij) Orbital variability of the focussed wind in the HMXB. <i>Khiali, B., de Gouveia Dal Pino, E.M., del Valle, M.V.</i> 2015, MNRAS 449, 34. (8) Discussion of magnetic reconnection as acceleration mechanism of BH binary and theoretical modelling of SED. <i>Parker, M.L. et al.</i> (23 authors) 2015, ApJ 808, 9. (1x, 2x, 8ab) Locating the inner AD. <i>Rodriguez, J. et al.</i> (9 authors) 2015, ApJ 807, 17. (1x, 2x, 3bx) Spectral state dependence of 0.4–2 MeV polarized emission. |
| V1504 Cyg | <i>Van de Sande, M., Scaringi, S., Knigge, C.</i> 2015, MNRAS 448, 2430. (1ao*, 5i) Linear rms-flux relation of nova-like system is characteristic property of accretion-induced variability of compact binaries. |
| V1521 Cyg (Cyg X-3) | <i>Khiali, B., de Gouveia Dal Pino, E.M., del Valle, M.V.</i> 2015, MNRAS 449, 34. (8) Discussion of magnetic reconnection as acceleration mechanism of BH binary and theoretical modelling of SED. |
| V2246 Cyg (EXO 2030+375) | <i>Naik, S., Jaisawal, G.K.</i> 2015, RAA 15, 537. (1x, 2cdx, 5bci) Suzaku observation of Be/x-ray binary pulsar. |
| V2468 Cyg (Nova 2008) | <i>Raj, A. et al.</i> (11 authors) 2015, AJ 149, 136. (1ai, 2di, 5j) IR spectral evolution and estimate of ejected mass. |
| V2491 Cyg (Nova 2008 b) | <i>Zemko, P., Mukai, K., Orlova, M.</i> 2015, ApJ 807, 61. (1x, 2x) Observation of classical nova in quiescence. |
| V339 Del (Nova 2013) | <i>Aquino, I. de G. et al.</i> (10 authors) 2015, A&A 581, 134. (2cd, 5gj) Spectral evolution for four months following discovery. |
| AA Dor | <i>Hoyer, D. et al.</i> (5 authors) 2015, A&A 578, A125. (2cdiou, 5bd) Signatures of the low-mass secondary in the post common-envelope EB. |
| ø Dra | <i>Roettenbacher, R.M. et al.</i> (17 authors) 2015, ApJ 809, 159. (1ao, 2ao, 4c, 5de) RS CVn binary and low-mass third component. |
| HI Dra | <i>Papageorgiou, A., Christopoulou, P.-E.</i> 2015, AJ 149, 168. (1aoi, 2a*, 5abcde) Spotted overcontact binary. |
| σ Gem | <i>Roettenbacher, R.M. et al.</i> (6 authors) 2015, ApJ 807, 23. (1ai, 2i, 4c, 5bcde) Solution of RS CVn binary. |

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| RX Gem | <i>Olson, E.C., Etzel, P.B.</i> 2015, AJ 149, 125. (1ao, 2ad, 5cdik) Five-colour LCs, RVs, rotation of primary, AD model, eclipses now partial, possible third body. |
| DQ Her | <i>Dmitrienko, E.S. et al. (6 authors)</i> 2015, ARep 59, 873. (1a, 5ci) BVRI photometry in 2014. |
| HZ Her (Her X-1) | <i>Klochkov, D. et al. (6 authors)</i> 2015, A&A 578, A88. (2dg) Cyclotron line energy decay in the accreting NS in the LMXB. <i>Šimon, V.</i> 2015, AJ 150, 3. (1x*, 1o*) Relationship between optical and x-ray outbursts. |
| V1003 Her | <i>Papageorgiou, A. et al. (4 authors)</i> 2015, Ap&SS 357, 59. (1ao, 2ao, 5abcde) Low-amplitude overcontact EB. |
| V1104 Her | <i>Liu, N.P. et al. (7 authors)</i> 2015, AJ 149, 148. (1ao, 5abc) Late-type, very short-period contact binary with probable companion. |
| V1239 Her | <i>Khruzina, T.S. et al. (5 authors)</i> 2015, ARep 59, 288. (1a, 5bci) The dwarf nova in quiescence. |
| EX Hya | <i>Luna, G.J.M. et al. (5 authors)</i> 2015, A&A 578, A15. (2du, 5i) The cooling flow model in the IP. |
| <i>o</i> Leo | <i>Gebzan, M. et al. (4 authors)</i> 2015, Ap&SS 357, 137. (2acd, 5h) Double-lined SB. |
| XZ Leo | <i>Luo, C.Q. et al. (5 authors)</i> 2015, AJ 150, 70. (1ao, 2a*, 5abcdegj) A-type contact binary with spotted primary. |
| GG Lup | <i>Budding, E., Butland, R., Blackford, M.</i> 2015, MNRAS 448, 3784. (1aoo*, 2ao, 5cdefk) Absolute parameters, apsidal motion, structure constants and distance of CB derived. |
| V677 Lyr (IRAS 19135+3937) | <i>Gorlova, N. et al. (9 authors)</i> 2015, MNRAS 451, 2462. (1ao, 2abc, 5abcdegi, 8a) An SRd variable as interacting binary. |
| V694 Mon (MWC 560) | <i>Leibowitz, E.M., Formiggini, L.</i> 2015, AJ 150, 52. (1o*, 5c) Periodicities in long-term LC. |
| GU Mus (Nova 1991) | <i>Peris, C.S. et al. (12 authors)</i> 2015, MNRAS 449, 1584. (2o, 5ij) Doppler maps for H α , H β and Ca II emission lines suggest prominent variable hot spot in quiescent phase of BH binary (x-ray nova 1991). <i>Wu, J. et al. (11 authors)</i> 2015, ApJ 806, 92. (1ao, 2a, 5e) Dynamical study of BH XRB. |
| IM Nor | <i>Caleo, A., Shore, S.N.</i> 2015, MNRAS 449, 25. (5i, 8d) Model to explain why the optical decline rate of recurrent nova with short period is slower than those of longer period systems. |
| QV Nor (4U 1538–52) | <i>Rodes-Roca, J.J. et al. (6 authors)</i> 2015, A&A 580, 140. (1x, 2dx, 5j) X-ray study of stellar wind. |
| V381 Nor (XTE J1550–564) | <i>Šrámková, E. et al. (8 authors)</i> 2015, A&A 578, A90. (5i) BH spin inferred from 3:2 epicyclic resonance model of high-frequency QPO. |
| ν Oct | <i>Ramm, D.J.</i> 2015, MNRAS 449, 4428. (1ao, 2a, 5bcdeg) New evidence supporting the conjectured circumstellar retrograde planet. |
| V2676 Oph | <i>Kawakita, H. et al. (6 authors)</i> 2015, PASJ 67, 17. (2ci, 5j) Formation of C ₂ and CN in nova around its visual brightness maximum. |
| δ Ori A | <i>Richardson, N.D. et al. (7 authors)</i> 2015, ApJ 808, 88. (2u) Spectroscopy of the components of massive triple star. |
| V392 Ori | <i>Zhang, X.B. et al. (4 authors)</i> 2015, AJ 150, 37. (1ao, 5abcgj) Near-contact spotted system with δ Sct-type primary. |

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| MW Pav | <i>Alvarez, G.E. et al.</i> (4 authors) 2015, PASP 127, 742. (1ao, 2a*, 5abcde) Solution of LC with spot, whose properties are consistent for many years. |
| β Per | <i>Kolbas, V.</i> 2015, MNRAS 451, 4150. (2abc, 5degk) Spectroscopically resolving the Algol triple system. |
| AO Psc | <i>Bonnardeau, M.</i> 2015, IBVS No. 6146. (1a, 5k) Rotation modulation. <i>Sanad, M.R.</i> 2015, Ap&SS 356, 43. (2du, 5gij) UV spectral behaviour. |
| V358 Pup | <i>Zasche, P. et al.</i> (4 authors) 2015, AcA 65, 151. (5abc) Study of triple system. |
| T Pyx | <i>Caleo, A., Shore, S.N.</i> 2015, MNRAS 449, 25. (5i, 8d) Model to explain why the optical decline rate of recurrent nova with short period is slower than those of longer period systems. |
| V1223 Sgr | <i>Sanad, M.R.</i> 2015, Ap&SS 356, 43. (2du, 5gij) UV spectral behavior of the IP. |
| V4403 Sgr | <i>Erdem, A. et al.</i> (4 authors) 2015, PASA 32, 28. (1ao, 2co, 5bcde) Absolute parameters of southern detached binary. |
| V4580 Sgr (SAX J1808.4–3658) | <i>Bult, P., Van Der Klis, M.</i> 2015, ApJ 806, 90. (2dx) Explanation of aperiodic variability. |
| V5584 Sgr (Nova 2009 d) | <i>Raj, A. et al.</i> (4 authors) 2015, RAA 15, 993. (1ai, 2ci, 5ghj) Near-infrared studies of nova in the pre-maximum and early decline phase. |
| μ^1 Sco | <i>Budding, E., Butland, R., Blackford, M.</i> 2015, MNRAS 448, 3784. (1aoo*, 2ao, 5cdek) Absolute parameters and distance of CB derived. |
| AK Sco | <i>Czekala, I. et al.</i> (6 authors) 2015, ApJ 806, 154. (1ai) Disk-based dynamical mass estimate for a young binary. |
| V884 Sco (4U 1700–37) | <i>Jaisawal, G.K., Naik, S.</i> 2015, MNRAS 448, 620. (2cdx, 5i) Time-resolved broad-band Suzaku observations of eclipsing HMXB show rapid variations and QPO at 20 mHz, which are due to accretion of stellar wind of supergiant companion. |
| V1033 Sco (GRO J1655–40) | <i>Šrámková, E. et al.</i> (8 authors) 2015, A&A 578, A90. (5i) BH spin inferred from 3:2 epicyclic resonance model of high-frequency QPO. <i>Uttley, P., Klein-Wolf, M.</i> 2015, MNRAS 451, 475. (1x, 5cgi) Timing properties of a hypersoft state. |
| V1055 Sco | <i>Zasche, P. et al.</i> (4 authors) 2015, AcA 65, 151. (5abc) Study of triple system. |
| V1309 Sco | <i>Kamiński, T. et al.</i> (4 authors) 2015, A&A 580, 34. (2doi, 5gh) Spectral changes in remnant of stellar merger. |
| V1324 Sco | <i>Finzell, T. et al.</i> (4 authors) 2015, ApJ 809, 160. (2r*uo) Distance and reddening. |
| V479 Sct (LS 5039) | <i>Marcote, B. et al.</i> (4 authors) 2015, MNRAS 451, 59. (1r*, 5ceg) Physical properties through low- and high-frequency radio observations. |
| MY Ser (HD 167971) | <i>De Becker, M.</i> 2015, MNRAS 451, 1070. (1x, 5ceg) Long-term <i>XMM Newton</i> investigation. |
| NP Ser (GX 17+2) | <i>Ding, G.Q., Huang, C. P.</i> 2015, JApA 36, 335. (1x, 2dx, 5i) Hard x-ray emission along the z-track. |
| AY Sex (PSR J1023+0038) | <i>Archibald, A.M. et al.</i> (13 authors) 2015, ApJ 807, 62. (1x) Accretion-powered pulsations in transition binary. <i>Bogdanov, S. et al.</i> (17 authors) 2015, ApJ 806, 148. (1ouxr, 2x) Observations in LMXB state. <i>Deller, A.T. et al.</i> (9 authors) 2015, ApJ 809, 13. (1r, 2r) LMXB state. |

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| | <i>McConnell, O. et al.</i> (6 authors) 2015, MNRAS 451, 3468. (1ao, 2abc, 5cdeg) Spectroscopic and photometric study. |
| | <i>Papitto A., Torres, D.F.</i> 2015, ApJ 807, 33. (2x*g*, 8abd) A propeller model for the sub-luminous state of the transitional millisecond pulsar. |
| AH Tau | <i>Xiang, F.-Y., Xiao, T.-Y., Yu, Y.-X.</i> 2015, AJ 150, 25. (1ao, 5abc) Contact binary with mass transfer and possible light-time effect. |
| V711 Tau | <i>Cao, D., Gu, S.</i> 2015, MNRAS 449, 1380. (2aco, 5g) High-resolution spectroscopy between 1998 and 2004 shows strong chromospheric activity of active RS CVn-type system. |
| V725 Tau (A0535+26) | <i>Sartore, N., Jourdain, E., Roques, J.P.</i> 2015, ApJ 806, 193. (1x, 2x) Observations of HMXB during high outburst. |
| V833 Tau | <i>Bondar', N.I.</i> 2015, ARep 59, 221 (1bc, 5c) Activity cycle from photometric data for 1899-2009. |
| V1094 Tau | <i>Marted, P.F.L. et al.</i> (9 authors) 2015, A&A 578, A25. (1ao, 2ao, 5abcdefg) |
| V1222 Tau | <i>Liu, L. et al.</i> (6 authors) 2015, PASJ 67, 74. (1ao, 5abc) An ignored high fill-out, extreme mass-ratio contact binary. |
| KZ TrA (4U 1626-67) | <i>Beri, A., Paul, B., Dewangan, G.C.</i> 2015, MNRAS 451, 508. (1x, 5cgi) Pulse-phase dependence of emission lines. |
| TY UMa | <i>Li, K. et al.</i> (7 authors) 2015, AJ 149, 120. (1ao, 2a, 5abcde) Four-colour LCs, VCs, two possible additional components. |
| VV UMa | <i>Gunsriwivat, K., Mkrichian, D.E.</i> 2015, IBVS No. 6148. (1a, 5ab) Study of pulsation spectrum of mass-accreting component. |
| HH UMa | <i>Wang, K. et al.</i> (6 authors) 2015, ApJ 805, 22. (1aoi) W UMa system exhibiting flip-flop activity. |
| LP UMa | <i>Liao, W.-P. et al.</i> (4 authors) 2015, PASJ 67, 48 (1ao, 5abcj) A deep, unusual over-contact binary system with high rate of mass transfer. |
| MQ UMa | <i>Zhou, X. et al.</i> (5 authors) 2015, AJ 150, 83. (1ao, 5abc) Contact binary with low mass ratio and possible third component. |
| FN Vel | <i>Kovtyukh, V. et al.</i> (5 authors) 2015, MNRAS 448, 3567. (2aco, 6b) Discovery of blue companion to cepheid by means of Ca II H+K lines. |
| BE Vul | <i>Khaliullina, A.I.</i> 2015, ARep 59, 717. (5bc) A third body as the origin of the orbital-period variations. |
| CK Vul (Nova 1670) | <i>Kamiński, T. et al.</i> (6 authors) 2015, Nature 520, 322. (2cdr, 5h) May not be a nova but a remnant of a merger of two stars. |
| ER Vul | <i>Crăciun, M., Vamoş, C., Pop, A.</i> 2015, MNRAS 448, 2066. (5b, 7d) Periodic modulation of orbital period of EB confirmed by new self-correlation method. |

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

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| HD 93129A | <i>Benaglia, P. et al.</i> (7 authors) 2015, A&A 579, A99. (4cr, 5gj) A radio map of the colliding winds in the very massive binary system. |
| HD 104237 | (see DX Cha) |
| HD 167971 | (see MY Ser) |
| HD 168112 | <i>De Becker, M.</i> 2015, MNRAS 451, 1070. (1x, 5ceg) Long-term <i>XMM Newton</i> investigation. |
| HD 170582 | <i>Mennickent, R.E. et al.</i> (8 authors) 2015, MNRAS 448, 1137. (1ao*, 2abco, 5bcdeik) Photometric and spectroscopic study of early interacting binary with luminous AD. |
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 ASAS J135218–3837.3
 HESS J1356–645
 Swift J1357.2–0933
 CXOU J141312.3–652013
 (CG X-1)
 CXOU J141332.9–651756
 CXO J141430.1–651621
 MAXI J1421–613
 2MASS J15022249-2941156
 (TYC 6760-497-1)
 SDSS J150240.98+333423.9
 2MASS J15231661–5744198
 (WR 68a)
 4U 1538–52
 2MASS J15433665+7515410
 (GSC 4560-2157)
 3FGL J1544.6–1125
 AXP 1E 1547.0–5408
 SGR J1550–5418
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 RX J155354.6–232639
 M4.5 SB is an EB.
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X-ray sources with constellation or galaxy names

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| Cep X-4 | (see V490 Cep) |
| CG X-1 | (see CXOU J141312.3–652013) |
| Cyg X-1 | (see V1357 Cyg) |
| Cyg X-3 | (see V1521 Cyg) |
| Her X-1 | (see HZ Her) |
| Holmberg II X-1 | (see 2XMM J081928.9+704219) |
| LMC X-1 | (see 2MASS J05393883–6944356) |
| M82 X-2 | (see CXOM82 J095551.4+694044) |

NGC 5204 X-1

Mukherjee, E.S. et al. (10 authors) 2015, ApJ 808, 64. (1x) Hard x-ray study of ultraluminous x-ray source.

Objects with other designations

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ASASSN-13cl

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GX 17+2

(see NP Ser)

GX 304-1

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