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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.

HR Boo	*Samec, R.G. et al.* (6 authors) 2015, AJ 149, 164. (1aoi, 5abc) Extreme mass-ratio binary.
NZ Boo (SDSS J150240.98+333423.9)	*Khruzina, T.S., Voloshina, I.B.* 2015, ARep 59, 366 (1a, 5bci) Photometric behaviour of the CV in quiescence.
BQ Cam (V 0332+53)	*Lutovinov, A.A. et al.* (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	*Madura, T.I. et al.* (5 authors) 2015, MNRAS 449, 3780. (8abc) Deciphering the structure of inner colliding winds.
	Mehner, A. et al. (11 authors) 2015, A&A 578, A122. (2diou, 5ij) The 2014.6 spectroscopic event: clues to the long-term recovery from its Great Eruption.
	Reitberger, K. et al. (4 authors) 2015, A&A 577, A100. (2dg) The first full orbit seen by Fermi.
WW Car	*Kovtyukh, V. et al.* (5 authors) 2015, MNRAS 448, 3567. (2aco, 6b) Discovery of blue companion to cepheid by means of Ca II H+K lines.
OY Car	*Spark, M.K., O'Donoghue, D.* 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)	*Zhekov, S.A., Skinner, S.L.* 2015, MNRAS 452, 872. (1x, 5cg) X-rays from the oxygen-type WR binary.
TW Cas	*Khaliullina, A.I.* 2015, ARep 59, 717. (5bc) A third body as the origin of the orbital-period variations.
V615 Cas (LS I +61°303)	*Zimmerman, L., Fuhrmann, L., Massi, M.* 2015, A&A 580, L3. (2r) Observations of broad-band radio spectrum of flares in ourburst.
V850 Cen (GX 304-1)	*Malacaria, C. et al.* (4 authors) 2015, A&A 581, 121. (1x, 2x) X-ray spectral and timing properties during 2012 outburst.
	Sugizaki, M. et al. (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	*Zasche, P. et al.* (4 authors) 2015, AcA 65, 151. (5abc) Study of triple system.
V1044 Cen	*Fekel, F.C. et al.* (4 authors) 2015, AJ 150, 48. (2ai, 5d) Symbiotic star.
V1200 Cen (ASAS J135218−3837.3)	*Coronado, J. et al.* (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)	*Fürst, F. et al.* (7 authors) 2015, ApJ 806, L24. (1x, 2x) Distorted cyclotron line profile.
o Cet + VZ Cet (Mira AB)	*Vlemmings, W.H.T. et al.* (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)	*Dunhill, A.C., Cuadra, J., Dougados, C.* 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	*Yu, Y.-X., Xiang, F.-Y., Xiao, T.-Y.* 2015, PASJ 67, 42. (1ao, 5abc) Orbital period changes.
ϵ Cyg	*Gray, D.F.* 2015, ApJ 810, 117. (2a, 5de) Analysis of K0 III binary.

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

RX Gem	*Olson, E.C., Etzel, P.B.* 2015, AJ 149, 125. (1ao, 2ad, 5cdik) Five-colour LCs, RVs, rotation of primary, AD model, eclipses now partial, possible third body.
DQ Her	*Dmitrienko, E.S. et al. (6 authors)* 2015, ARep 59, 873. (1a, 5ci) BVRI photometry in 2014.
HZ Her (Her X-1)	*Klochkov, D. et al.* (6 authors) 2015, A&A 578, A88. (2dg) Cyclotron line energy decay in the accreting NS in the LMXB.
	Šimon, V. 2015, AJ 150, 3. (1x*, 1o*) Relationship between optical and x-ray outbursts.
V1003 Her	*Papageorgiou, A. et al.* (4 authors) 2015, Ap&SS 357, 59. (1ao, 2ao, 5abcde) Low-amplitude overcontact EB.
V1104 Her	*Liu, N.P. et al.* (7 authors) 2015, AJ 149, 148. (1ao, 5abc) Late-type, very short-period contact binary with probable companion.
V1239 Her	*Khruzina, T.S. et al.* (5 authors) 2015, ARep 59, 288. (1a, 5bci) The dwarf nova in quiescence.
EX Hya	*Luna, G.J.M. et al.* (5 authors) 2015, A&A 578, A15. (2du, 5i) The cooling flow model in the IP.
o Leo	*Gebran, M. et al.* (4 authors) 2015, Ap&SS 357, 137. (2acd, 5h) Double-lined SB.
XZ Leo	*Luo, C.Q. et al.* (5 authors) 2015, AJ 150, 70. (1ao, 2a*, 5abcdegj) A-type contact binary with spotted primary.
GG Lup	*Budding, E., Butland, R., Blackford, M.* 2015, MNRAS 448, 3784. (1aoo*, 2ao, 5cdefk) Absolute parameters, apsidal motion, structure constants and distance of CB derived.
V677 Lyr (IRAS 19135+3937)	*Gorlova, N. et al.* (9 authors) 2015, MNRAS 451, 2462. (1ao, 2abc, 5abcdegi, 8a) An SRd variable as interacting binary.
V694 Mon (MWC 560)	*Leibowitz, E.M., Formiggini, L.* 2015, AJ 150, 52. (1o*, 5c) Periodicities in long-term LC.
GU Mus (Nova 1991)	*Peris, C.S. et al.* (12 authors) 2015, MNRAS 449, 1584. (2o, 5ij) Doppler maps for Hα, Hβ and Ca II emission lines suggest prominent variable hot spot in quiescent phase of BH binary (x-ray nova 1991).
	Wu, J. et al. (11 authors) 2015, ApJ 806, 92. (1ao, 2a, 5e) Dynamical study of BH XRB.
IM Nor	*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.
QV Nor (4U 1538−52)	*Rodes-Roca, J.J. et al.* (6 authors) 2015, A&A 580, 140. (1x, 2dx, 5j) X-ray study of stellar wind.
V381 Nor (XTE J1550−564)	*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.
ν Oct	*Ramm, D.J.* 2015, MNRAS 449, 4428. (1ao, 2a, 5bcdeg) New evidence supporting the conjectured circumstellar retrograde planet.
V2676 Oph	*Kawakita, H. et al.* (6 authors) 2015, PASJ 67, 17. (2ci, 5j) Formation of C_2 and CN in nova around its visual brightness maximum.
δ Ori A	*Richardson, N.D. et al.* (7 authors) 2015, ApJ 808, 88. (2u) Spectroscopy of the components of massive triple star.
V392 Ori	*Zhang, X.B. et al.* (4 authors) 2015, AJ 150, 37. (1ao, 5abcgj) Near-contact spotted system with δ Sct-type primary.

MW Pav	*Alvarez, G.E. et al.* (4 authors) 2015, PASP 127, 742. (1ao, 2a*, 5abcde) Solution of LC with spot, whose properties are consistent for many years.
β Per	*Kolbas, V.* 2015, MNRAS 451, 4150. (2abc, 5degk) Spectroscopically resolving the Algol triple system.
AO Psc	*Bonnardeau, M.* 2015, IBVS No. 6146. (1a, 5k) Rotation modulation. *Sanad, M.R.* 2015, Ap&SS 356, 43. (2du, 5gij) UV spectral behaviour.
V358 Pup	*Zasche, P. et al.* (4 authors) 2015, AcA 65, 151. (5abc) Study of triple system.
T Pyx	*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.
V1223 Sgr	*Sanad, M.R.* 2015, Ap&SS 356, 43. (2du, 5gij) UV spectral behavior of the IP.
V4403 Sgr	*Erdem, A. et al.* (4 authors) 2015, PASA 32, 28. (1ao, 2co, 5bcde) Absolute parameters of southern detached binary.
V4580 Sgr (SAX J1808.4−3658)	*Bult, P., Van Der Klis, M.* 2015, ApJ 806, 90. (2dx) Explanation of aperiodic variability.
V5584 Sgr (Nova 2009 d)	*Raj, A. et al.* (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	*Budding, E., Butland, R., Blackford, M.* 2015, MNRAS 448, 3784. (1aoo*, 2ao, 5cdek) Absolute parameters and distance of CB derived.
AK Sco	*Czekala, I. et al.* (6 authors) 2015, ApJ 806, 154. (1ai) Disk-based dynamical mass estimate for a young binary.
V884 Sco (4U 1700−37)	*Jaisawal, G.K., Naik, S.* 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)	*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. *Uttley, P., Klein-Wolf, M.* 2015, MNRAS 451, 475. (1x, 5cgi) Timing properties of a hypersoft state.
V1055 Sco	*Zasche, P. et al.* (4 authors) 2015, AcA 65, 151. (5abc) Study of triple system.
V1309 Sco	*Kamiński, T. et al.* (4 authors) 2015, A&A 580, 34. (2doi, 5gh) Spectral changes in remnant of stellar merger.
V1324 Sco	*Finzell, T. et al.* (4 authors) 2015, ApJ 809, 160. (2r*uo) Distance and reddening.
V479 Sct (LS 5039)	*Marcote, B. et al.* (4 authors) 2015, MNRAS 451, 59. (1r*, 5ceg) Physical properties through low- and high-frequency radio observations.
MY Ser (HD 167971)	*De Becker, M.* 2015, MNRAS 451, 1070. (1x, 5ceg) Long-term *XMM Newton* investigation.
NP Ser (GX 17+2)	*Ding, G.Q., Huang, C. P.* 2015, JApA 36, 335. (1x, 2dx, 5i) Hard x-ray emission along the z-track.
AY Sex (PSR J1023+0038)	*Archibald, A.M. et al.* (13 authors) 2015, ApJ 807, 62. (1x) Accretion-powered pulsations in transition binary. *Bogdanov, S. et al.* (17 authors) 2015, ApJ 806, 148. (1ouxr, 2x) Observations in LMXB state. *Deller, A.T. et al.* (9 authors) 2015, ApJ 809, 13. (1r, 2r) LMXB state.

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

HD 37424	*Dinçel, B. et al.* (7 authors) 2015, MNRAS 448, 3196. (2ao) OB-type runaway star discovered in centre of SNR S147; identified as pre-SN binary companion to the progenitor of pulsar PSR J0538+2817.
HD 52721	*Pavlovskiy, S.E. et al.* (4 authors) 2015, AstL 41, 289. (1a, 5c, 7c) New photometric investigation of the CB Herbig Ae/Be star: evidence for the existence of large-scale azimuthal inhomogeneities.

HD 91962	*Tokovinin, A., Latham, D.W., Mason, B.D.* 2015, AJ 149, 195. (1ao, 2ao, 4bc) Spectroscopic-astrometric hierarchical quadruple system.
HD 93129A	*Benaglia, P. et al.* (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	*De Becker, M.* 2015, MNRAS 451, 1070. (1x, 5ceg) Long-term *XMM Newton* investigation.
HD 170582	*Mennickent, R.E. et al.* (8 authors) 2015, MNRAS 448, 1137. (1ao*, 2abco, 5bcdeik) Photometric and spectroscopic study of early interacting binary with luminous AD.
HD 187669 (ASAS J195222−3233.7)	*Helminiak, K.G. et al.* (16 authors) 2015, MNRAS 448, 1945. (1aoo*, 2ao, 5bcdeh) Accurate parameters of SB2 with total primary eclipse consisting of two late-type giants.
HD 215227 (MWC 656) (AGL J2241+4454)	*Aleksić, J. et al.* (150 authors) 2015, A&A 576, A36. (2dgx) MAGIC observations of the only known Be-BH HMXB. *Alexander, M.J., McSwain, M.V.* 2015, MNRAS 449, 1686. (1g*) Be-BH binary cannot be confirmed as true γ-ray binary. *Dzib, S.A., Massi, M., Jaron, F.* 2015, A&A 580, L6. (2r) First detection of radio emission from Be-BH binary.
HDE 226868	(see V1357 Cyg)
HDE 350731	*Soydugan, F. et al.* (6 authors) 2015, AJ 150, 55. (1ao, 2ado, 5abcdefgk) Close young late-B-type binary.
BD +30°623	*Aller, A. et al.* (5 authors) 2015, MNRAS 448, 2822. (2bcdou*, 5g) UV and optical spectral NLTE analysis used to derive parameters of binary central star of planetary nebula NGC 1514, consisting of a horizontal branch A0 star with a hot companion.
CPD −63°2495 (PSR B1259−63) (LS 2883)	*Dembska, M. et al.* (6 authors) 2015, Ap&SS 359, 31. (2dr, 5ij) Radio spectrum evolution of the binary pulsar. *Pavlov, G.G. et al.* (5 authors) 2015, ApJ 806, 192. (1x, 2x) Extended x-ray object ejected.

Objects with names including RA and DEC

XMMU J001446.81−391123.48	*Jithesh, V., Wang, Z.* 2015, MNRAS 448, 1973. (1x*, 2dx, 6b) X-ray outbursts of transient source in NGC 55 suggest it being an x-ray binary.
400D J0019126+220733	*Tkachenko, A.Yu. et al.* (6 authors) 2015, AstL, 41, 5, 174 (1x*, 2d, 6b) CV found in search based on the 400d x-ray sky survey.
MASTER OT J004207.99+405501.1 (M31N 2015 01a)	*Kurtenkov, A.A. et al.* (22 authors) 2015, A&A 578, L10. (1ao, 2do, 4c) The January 2015 outburst of a red nova in M 31.
RX J0045.4+4154 (M31N 2008-12a)	*Darnley, M. et al.* (23 authors) 2015, A&A 580, 45. (1ou, 2d, 5cij) Photometric and spectroscopic evolution of 2014 eruption of M31 recurrent nova. *Henze, M. et al.* (10 authors) 2015, A&A 580, 46. (1xu, 2x, 5gj) Spectral evolution of two nova events one year apart. *Kato, M., Saio, H., Hachisu, I.* 2015, ApJ 808, 52. (1uxo) LC model of a recurrent nova.
RX J0059.2−7138	*Sidoli, L. et al.* (5 authors) 2015, MNRAS 449, 3710. (1x, 5bgi) Spectral properties during its 2013 outburst.

4U 0142+61	*Shriharsh, P. et al.* (15 authors) 2015, ApJ 808, 32. (1xi*, 2x) Phase-resolved observations of a magnetar.
VSX J022427.8−104034 (USNO-B1.0 0793-0023471)	*Virnina, N.* 2015, PZP 15, 4. (1a, 6b) New Algol-type binary in Cetus.
MLS110213:022733+130617	*Silva, K.M.G. et al.* (7 authors) 2015, MNRAS 451, 4183. (1ao, 2aco, 3a, 5cde) A new eclipsing polar.
2MASS J02424290−1146451 (PHL 1445)	*McAllister, M.J. et al.* (17 authors) 2015, MNRAS 451, 114. (1ao, 5ceg, 8a) An eclipsing CV with a substellar donor.
V 0332+53	(see BQ Cam)
PSR J0337+1715	*Sabach, E., Soker, N.* 2015, MNRAS 450, 1716. (8abcd) A formation scenario for the triple pulsar.
A0535+26	(see V725 Tau)
TCP J04283707+3157578	*Kryachko, T., Samokhvalov, A., Satovsky, B.* 2015, PZP 15, 3. (1a, 6b) Study of variability.
PSR J0538+2817	(see HD 37424)
IRSF J05383341−6911590 (VFTS 399)	*Clark, J.S. et al.* (15 authors) 2015, A&A 579, A131. (2diox, 5i) X-ray bright emission-line star is a binary with an accreting NS.
2MASS J05393883−6944356 (LMC X-1)	Koyama, S. et al. (6 authors) 2015, PASJ 67, 46. (1x, 2dx, 5i) Suzaku observation of x-ray variability in soft state.
PTF1 J072455.75+125300.3	*Schindewolf, M. et al.* (7 authors) 2015, A&A 580, 117. (1ao, 2ado, 5cde) sdBe binary with M-star companion.
PSR J0737−3039	*Kim, C., Perera, B.B.P., McLaughlin, M.A.* 2015, MNRAS 448, 928. (8) Implications for NS+NS binary merger rate derived from the only known system with two radio pulsars.
ISWASP J074658.62+224448.5	*Jiang, L.-Q. et al.* (4 authors) 2015, AJ 149, 169. (1ao, 5abcj) Contact system near short-period limit.
2XMM J081928.9+704219 (Holmberg II X-1)	*Cseh, D. et al.* (10 authors) 2015, MNRAS 452, 24. (1rx, 5cg) Evolution of a jet ejection.
DENIS J082303.1−491201	*Sahlmann, J. et al.* (9 authors) 2015, A&A 579, A61. (2adiou, 5de) A juvenile binary brown dwarf system at 20.7 pc.
1SWASP J093010.78+533859.5	*Lohr, M.E. et al.* (9 authors) 2015, A&A 578, A103. (1ao, 2ao, 5bcde) Two EBs in a quintuple low-mass star system.
SDSS J093320.86+441705.4 (US 708)	*Geier, S. et al.* (20 authors) 2015, Science 349, aac9469; erratum for 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	*Tong, H.* 2015, RAA 15, 517. (1x, 2cdx, 5bi) An accreting, low-magnetic-field magnetar for the ultraluminous x-ray source in M82.
CXOM82 J095551.4+694044 (M82 X-2)	*Shao, Y., Li, X.-D.* 2015, ApJ 802, 131. (8c) Models evolution of NS ultraluminous x-ray sources, birth rate estimate in Milky Way-like galaxy.
SDSS J100559.10+224932.3 (CSS 41177)	*Bours, M.C.P. et al.* (4 authors) 2015, MNRAS 448, 601. (1ao*u, 2du, 5c) Accurate temperature and *log g* determination of double WD system; secondary is inside pulsational instability strip.
1FGL J1018.6−5856	*Abranowski, A. et al. (the H.E.S.S. Collaboration)* (231 authors) 2015, A&A 577, A131. (6bc) Discovery of variable VHE γ-ray emission from the binary system.
PSR J102347.6+003841	(see AY Sex)
PSR J1227−4853 (XSS J12270−4859)	*Johnson, T.J. et al.* 2015, (12 authors) ApJ 806, 91. (2g) Discovery of γ-ray pulsations.

	Xing, Y., Wang, Z. 2015, ApJ 808, 17. (1g, 2g) Observation of a transitional LMXB pulsar.
PSR B1259−63	(see CPD $-63°2495$)
2RXP J130159.6−635806	*Krivonos, R.A. et al.* (17 authors) 2015, ApJ 809, 140. (1x, 2x) Steady long-term spin-up of a Be binary.
PSR J1311−3430	*Romani, R.W., Filippenko, A.V., Cenko, S.B.* 2015, ApJ 804, 115. (2co) Estimates of the NS mass and orbital inclination very dependent upon heating, which is poorly constrained. *Xing, Y., Wang, Z.* 2015, ApJL 804, L33. (1g) γ-ray orbital modulation.
ASAS J135218−3837.3	(see V1200 Cen)
HESS J1356−645	*Izawa, M. et al.* (6 authors) 2015, PASJ 67, 43. (2dx, 5j) Suzaku observations of old pulsar wind nebula candidate.
Swift J1357.2−0933	*Torres, M.A.P. et al.* (6 authors) 2015, MNRAS 450, 4292. (2ac, 5degi) VLT spectroscopy.
CXOU J141312.3−652013 (CG X-1)	*Esposito, P. et al.* (8 authors) 2015, MNRAS 452, 1112. (1x, 5ceg, 6b) Ultraluminous x-ray source in the Circinus region.
CXOU J141332.9−651756	*Esposito, P. et al.* (8 authors) 2015, MNRAS 452, 1112. (1x, 5ceg, 6b) A new CV in the Circinus region.
CXO J141430.1−651621	*Esposito, P. et al.* (8 authors) 2015, MNRAS 452, 1112. (1x, 5ceg, 6b) A new CV in the Circinus region.
MAXI J1421−613	*Serino, M. et al.* (9 authors) 2015, PASJ 67, 30. (1x, 2dx, 5i) LMXB observed by MAXI GSC and Swift XRT.
2MASS J15022249-2941156 (TYC 6760-497-1)	*Parsons, S.G. et al.* (11 authors) 2015, MNRAS 452, 1754. (1ao, 2ao, 5cdeg, 6b) The first pre-supersoft x-ray binary.
SDSS J150240.98+333423.9	(see NZ Boo)
2MASS J15231661−5744198 (WR 68a)	*Collado, A. et al.* (4 authors) 2015, A&A 581, 49. (2ado, 5d) New massive SB2.
4U 1538−52	(see QV Nor)
2MASS J15433665+7515410 (GSC 4560-2157)	*Khruslov, A. et al.* (6 authors) 2015, RAA 15, 1005. (1ao, 2c, 5aci, 6bd) New long-period eclipsing CV.
3FGL J1544.6−1125	*Bogdanov, S., Halpern, J.P.* 2015, ApJL 803, L27. (1aoux, 2dx) Propose that this object and 1RSX J154439.4−112820 are the same.
AXP 1E 1547.0−5408	*Yasuda, T. et al.* (13 authors) 2015, PASJ 67, 41. (1gx, 2dx, 5i) Sub-MeV band observation of a hard burst with the Suzaku wide-band all-sky monitor.
SGR J1550−5418	*Mus, S.S. et al.* (5 authors) 2015, ApJ 807, 42. (1x) Observed burst tails.
XTE J1550−564	(see V381 Nor)
RX J155354.6−232639 M4.5 SB is an EB.	*Kraus, A.L. et al.* (6 authors) 2015, ApJ 807, 3. (1aoi*, 2*, 5cde) Known
IRAS 16158−4208 (Hen 2-155)	*Jones, D. et al.* (7 authors) 2015, A&A 580, 19. (1ao, 2ado, 5cghi) Binary central star of PN.
IRAS 16206−5315 (Hen 2-161)	*Jones, D. et al.* (7 authors) 2015, A&A 580, 19. (1ao, 2ado, 5c) Very short-period central star of PN.
4U 1626−67	(see KZ TrA)
4U 1630−472	*Capitanio, F. et al.* (4 authors) 2015, MNRAS 450, 3840. (1gx, 5cgi) Missing hard states and regular outbursts.

IGR 16328−4726	*Persi, P. et al.* (7 authors) 2015, AJ 150, 21. (1i, 2b, 6c) Reddening and distance to IR conterpart of x-ray source.
2MASS J16351508−5142274 (Hen 3-1213)	*Fekel, F.C. et al.* (4 authors) 2015, AJ 150, 48. (2ai, 5d) Symbiotic star.
GRO J1655−40	(see V1033 Sco)
MAXI J1659−152	*Debnath, D. et al.* (4 authors) 2015, ApJ 803, 59. (1aio, 2dx) Constrains orbital inclination between 52 and 59 degrees. *Kalamkar, M. et al.* (4 authors) 2015, ApJ 808, 144. (1x, 2x) LMXB x-ray variability attributed to two-component accretion flow.
4U 1700−37	(see V884 Sco)
4U 1705−44	*Di Salvo, T. et al.* (10 authors) 2015, MNRAS 449, 2794. (1x, 5cgi) Probing the reflection component in the hard state. *Seifina, E. et al.* (4 authors) 2015, ApJ 808, 142. (1x, 2x) LMXB observations: spectral hardening during the banana branch.
IGR J17091−3624	*Iyer, N., Nandi, A., Mandal, S.* 2015, ApJ 807, 108. (1x, 2x) Determination of the mass from spectral and temporal variations.
PSR J1713+0747	*Zhu, W.W. et al.* (10 authors) 2015, ApJ 809, 41. (1r, 2r) Testing theories of gravitation Using 21-year timing of pulsar.
ROTSE1 J172021.58+163051.9 (GSC 1537-1557)	*Xiang, F.-Y. et al.* (4 authors) 2015, AJ 150, 9. (1aoi, 5abc) Contact binary with third component.
2MASS J17285513+5016168 (GSC 3517-0663)	*Guo, D.-F. et al.* (6 authors) 2015, RAA 15, 889. (1ao, 5ac, 6bd) Discovery of a deep, low-mass-ratio overcontact binary.
Swift J1734.5−3027	*Bozzo, E. et al.* (6 authors) 2015, A&A 579, A56. (2dx, 5ij) A new long Type-I LMXB.
2MASS J17412841−3647451 (SS73 96)	*Fekel, F.C. et al.* (4 authors) 2015, AJ 150, 48. (2ai, 5d) Synbiotic star with possible eclipses.
H 1743−322	*Chaty, S., Muñoz Arjonilla, A. J., Dubus, G.* 2015, A&A 577, A101. (1aoi, 2dx*) IR study of LMXB in outburst: a radio-quiet and NIR-dim microquasar.
GRO J1744−28	*D'Aí, A. et al.* (13 authors) 2015, MNRAS 449, 4288. (1gx, 5cegi) Study of the broad-band x-ray spectrum. *Younes, G. et al.* (23 authors) 2015, ApJ 804, 43. (2dx) Observed during third outburst since discovery and after 18 year quiescence.
EXO 1745−248	*Ferraro, F.R. et al.* (7 authors) 2015, ApJ 807, L1. (1io, 6c) Optical identification of x-ray burster.
SGR J1745−2900	*Pennucci, T.T. et al.* (10 authors) 2015, ApJ 808, 81. (1xr) Observations of galactic centre magnetar.
SWIFT J1745.1−2624	*Tetarenko, A.J. et al.* (15 authors) 2015, ApJ 805, 30. (1ir, 2ir) Good preliminary fit with jet models.
IGR J17454−2919	*Paizis, A. et al.* (10 authors) 2015, ApJ 808, 34. (1xi, 2x) This γ-ray source is most likely an LMXB.
IGR J17463−2854	*Karasev, D.I., Tsygankov, S.S., Lutovinov, A.A.* 2015, AstL 41, 394 (1x, 6bc). Possible symbiotic binary system in the galactic centre region.
1RXS J174755.8−263352 (GX 3+1)	*Pintore, F. et al.* (9 authors) 2015, MNRAS 450, 2016. (1gx, 5cegi) Study of the reflection spectrum.
Swift J174805.3−244637	*Degenaar, N. et al.* (13 authors) 2015, MNRAS 451, 2071. (1x, 5cgi) NS crust cooling in the Terzan 5 x-ray transient .

IGR J17497−2821	*Shah Alam, Md. et al.* (6 authors) 2015, MNRAS 451, 3078. (1x, 2c, 5cgi) Spectral and energy-dependent timing characteristics.
Swift J1753.5−0127	*Rahoui, F. et al.* (10 authors) 2015, ApJ 810, 161. (1iuox, 2xio) Multi-wavelength study of BH binary. *Rodi, J., Jourdain, E., Roques, J.P.* 2015, ApJ 807, 106. (1g, 2g) Long-term monitoring of BH candidate. *Tomsick, J.A. et al.* (22 authors) 2015, ApJ 808, 85. (1xioru, 2x) Observations of an accreting BH.
IGR J17544−2619	*Romano, P. et al.* (10 authors) 2015, A&A 576, L4. (2dx, 5i Giant outburst from the HMXB: accretion from a transient disc?
ASAS J180057−2333.8	*Suchomska, K. et al.* (14 authors) 2015, MNRAS 451, 651. (1ao*, 2a, 5abcdeg) Accurate stellar parameters and distance.
SAX J1808.4−3658	(see V4580 Sgr)
2MASS J18163349−1858423 (WR 112)	*Yam, J.O. et al.* (4 authors) 2015, RMxAA 51, 35. (1r*, 2dr*, 4a) VLA archival data used to determine proper motion, but no periodicity supporting proposed binary nature.
2MASS J18311975−0549543 (CoRoT 310266512)	*Fernandez, J.F., Chou, D.-Y.* 2015, PASP 127, 421. (1ao*) Object consists of an EB and another system with possible planet.
PSR J1835−3259A	*DeCesar, M.E. et al.* (5 authors) 2015, ApJ 807, L23. (1r, 2r, 6b) Discovery and analysis of eccentric 3.9-ms binary PSR in NGC 6652.
MAXI J1836−194	*Russell, T.D. et al.* (28 authors) 2015, MNRAS 450, 1745. (1r, 5cegj) Radio monitoring of the hard state jets in the 2011 outburst.
PSR J1846−0258	*Archibald, R.F. et al.* (5 authors) 2015, ApJ 810, 67. (1x) Braking index of rotation-powered pulsar.
IGR J18483−0311	*Sguera, V. et al.* (4 authors) 2015, MNRAS 449, 1228. (1x, 2dx, 5i) 0.5-250 keV INTEGRAL/XMM study shows x-ray activity over large fraction of orbital cycle of supergiant fast x-ray transient system.
2MASS J18521755+0059443 (WR 122)	*Mauerhan, J. et al.* (8 authors) 2015, MNRAS 450, 2551. (1ao, 2ac, 5cdegj) Equatorial mass loss and x-rays from the binary.
2MASS J19072623+3801389 (KIC 2835289)	*Conroy, K. et al.* (4 authors) 2015, IBVS No. 6138. (1a, 5b) Call for follow-up observations of dynamically changing triple star.
XTE J1908+094	*Curran, P.A. et al.* (24 authors) 2015, MNRAS 451, 3975. (1rx, 5ceg) Radio polarimetry as a probe of unresolved jets.
X1908+075 (4U 1908+075)	*Martínez-Núñez, S. et al.* (7 authors) 2015, A&A 578, A107. (2di, 5g) The donor star of the x-ray pulsar in the HMXB.
IRAS 19135+3937	(see V677 Lyr)
GRS 1915+105	(see V1487 Aql)
2MASS J19241081+4459348 (KIC 8751494)	*Van de Sande, M., Scaringi, S., Knigge, C.* 2015, MNRAS 448, 2430. (1ao*, 5i) Linear rms-flux relation of nova-like system is characteristic property of accretion-induced variability of compact binaries.
2MASS J193110888+4324577	*De Marco, O. et al.* (8 authors) 2015, MNRAS 448, 3587. (1ao*, 2ao, 5bcd) High-precision *Kepler* photometry and spectroscopy used to identify central star of planetary nebula as a CB with 2.928 d period and 0.7 mmag LC amplitude.
2MASS J19350857+4501065 (KOI-81)	*Matson, R. et al.* (8 authors) 2015, ApJ 806, 155. (2au, 5de) Detection of hot companion and determination of masses using Doppler tomography to resolve spectra.

2M 1938+4603	*Baran, A.S. et al.* (5 authors) 2015, A&A 577, A146. (1ao, 5ab) Detection of a planet in the sdB+M dwarf binary system.
1RXS J194211.9+255552	*D'Aí, A. et al.* (4 authors) 2015, MNRAS 451, 2835. (1x, 5bcegi) Spectral and timing characterization.
2MASS J19454459+4438296 (Kepler 34)	*Kley, W., Haghighipour, N.* 2015, A&A 581, 20. (8bc) Origin and evolution of planet around highly eccentric EB.
WISE J194643.44+472029.4	*Safsten, E.D. et al.* (5 authors) 2015, IBVS No. 6147. (1a, 5c) A new contact EB in the field of KOI-1152 (2MASS J19464695+4719382).
2MASS J19500997+4157033 (KIC 6543674)	*Masuda, K., Uehara, S., Kawahara, H.* 2015, ApJ 806, L37. (1o, 5ce) Solution of flat hierarchical triple eclipsing system from Kepler LC.
ASAS J195222−3233.7	(see HD 187669)
PSR J1953+1846A	*Cadelano, M. et al.* (9 authors) 2015, ApJ 807, 91. (1rio) Radio timing and optical photometry of a black widow binary.
4U 1957+115	(see V1408 Aql)
Swift J201424.9+152930	*Espozito, P. et al.* (16 authors) 2015, MNRAS 450, 1705. (1aox, 5abcegi) Discovery of a new deeply EB.
EXO 2030+375	(see V2246 Cyg)
DENIS J203137.5−000511 (USNO-A2.0 0825-18396733)	*Gabdeev, M.M. et al.* (4 authors) 2015, ARep 59, 213 (1a, 2ac, 5cde) Spectral and photometric studies of polar.
PSR J2032+4127	*Lyne, A.G. et al.* (7 authors) 2015, MNRAS 451, 581. (1r, 5ceg) Member of a highly-eccentric binary system.
2MASS J20351264+4651121 (LS III +46 11)	*Maíz Apellániz, J. et al.* (12 authors) 2015, A&A 579, A108. (1o*i, 2do, 5cde) A very massive O3.5 If*+O3.5 If* binary.
SDSS J212531−010745	*Shimansky, V.V. et al.* (6 authors) 2015, ARep 59, 199 (1a, 2ac, 5cde) Modelling the optical radiation of the pre-CV.
PSR J2215+5135	*Romani, R.W. et al.* (4 authors) 2015, ApJ 809, L10. (1ao*, 2o, 5e) A moderate-mass, high-inclination binary ms pulsar.
AGL J2241+4454	(see HD 215227)
PSR J2339−0533 (2FGL J2339.6−0532)	*Rodriguez, J. et al.* (9 authors) 2015, ApJ 807, 18. (1g, 2g) γ-ray timing analysis of redback pulsar for changes of gravitational quadrupole moment. *Yatsu, Y. et al.* (44 authors) 2015, ApJ 802, 84. (2dx, 8c) Accretion flow dynamics during the 2010 outburst.

X-ray sources with constellation or galaxy names

Aql X-1	(see V1333 Aql)
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

Abell 65	*Hillwig, T.C. et al.* (7 authors) 2015, AJ 150, 30. (1ao, 2do, 5cd) Binary central star of PN.
ASASSN-13cl	*Thorstensen, J.R.* 2015, PASP 127, 351. (1ao, 2a, 5cd) CV with unusually warm secondary and grazing eclipses.
ASASSN-14cc	*Kato, T., Hambsch, F., Monard, B.* 2015, PASJ 67, L2 (1ao, 5bc, 6b) A likely helium analogue of RZ LMi.
000-BLQ-565	*Lowther, S.* 2015, Southern Stars 54, 12. (1ao, 5b, 6bd) A new EB star in Sgr.
CoRoT 310266512	(see 2MASS J18311975−0549543)
CSS 41177	(see SDSS J100559.10+224932.3)
Gaia14aae (=ASASSN-14cn)	*Campbell, H.C. et al.* (85 authors) 2015, MNRAS 452, 1060. (1ao, 2abco, 5bcdeg, 6b) Discovery and characterization of a deeply eclipsing AM CVn-system.
GRB 080503	*Gao, H. et al.* (5 authors) 2015, ApJ 807, 163. (1x, 2x, 8a) Late afterglow re-brightening: signature of a magnetar-powered merger nova.
GRB 140619B	*Ruffini, R. et al.* (10 authors) 2015, ApJ 808, 190. (8c) A GRB from a binary NS merger leading to a BH.
GSC 1537-1557	(see ROTSE1 J172021.58+163051.9)
GSC 2265-1456	*Guo, D. F. et al.* (6 authors) 2015, JApA 36, 399. (1ao, 5bc, 6bd) Discovery of faint EB.
GSC 3517-0663	(see 2MASS J17285513+5016168)
GSC 4560-2157	(see 2MASS J15433665+7515410)
GX 3+1	(see 1RXS J174755.8−263352)
GX 17+2	(see NP Ser)
GX 304-1	(see V850 Cen)
GX 339-4	(see V821 Ara)
Hen 2-155	(see IRAS 16158−4208)
Hen 2-161	(see IRAS 16206−5315)
Hen 3-1213	(see 2MASS J16351508−5142274)
iPTF 13bvn	*Kuncarayakti, H. et al.* (12 authors) 2015, A&A 579, A95. (2cdo) Nebular phase observations of the Type-Ib SN favor a binary progenitor.
iPTF 14atg	*Cao, Y. et al.* (22 authors) 2015, Nature 521, 328. (2dux) A strong UV pulse from a newborn type-Ia SN.
Kepler 34	(see 2MASS J19454459+4438296)
KIC 2835289	(see 2MASS J19072623+3801389)
KIC 6543674	(see 2MASS J19500997+4157033)
KIC 8751494	(see 2MASS J19241081+4459348)
KOI-81	(see 2MASS J19350857+4501065)
LMC S63	*Ilkiewicz, K. et al.* (5 authors) 2015, MNRAS 451, 3909. (2d, 5bdeg) Analysis of multi-epoch low-resolution spectrophotometry.
LS 2883	(see CPD −63°2495)

LS 5039	(see V479 Sct)
LS I +61°303	(see V615 Cas)
LS III +46 11	(see 2MASS J20351264+4651121)
M15 X-3	*Arnason, R.M. et al.* (5 authors) 2015, ApJ 807, 52. (1x, 2x) Observations of a very faint LMXB.
M31N 2008-12a	(see RX J0045.4+4154)
M31N 2015 01a	(see MASTER OT J004207.99+405501.1)
Mira AB	(see *o* Cet + VZ Cet)
MWC 560	(see V694 Mon)
MWC 656	(see HD 215227)
NGC 5189	*Manick, R., Miszalski, B., McBride, V.* 2015, MNRAS 448, 1789. (2ao, 5bd, 6b) Among sample of 6 planetary nebula WR central stars application of RV cross-correlation technique leads to discovery of new CB as nucleus of NGC 5189.
PHL 1445	(see 2MASS J02424290−1146451)
SS73 96	(see 2MASS J17412841−3647451)
TYC 6760-497-1	(see 2MASS J15022249−2941156)
US 708	(see SDSS J093320.86+441705.4)
USCO 5	(see RX J155354.6−232639)
USNO-A2.0 0825-18396733	(see DENIS J203137.5−000511)
USNO-B1.0 0793-0023471	(see VSX J022427.8−104034)
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