BIBLIOGRAPHY OF CLOSE BINARIES

No. 109

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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
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   - b. Spectral classification
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   - d. Spectrophotometry

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4. Astrometry
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5. Derived results
   - a. Times of minima
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   - c. Parameters derivable from light curves
   - d. Elements derivable from velocity curves
   - e. Absolute dimensions, masses
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   - 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             | IP   | intermediate polar | RV   | radial velocity |
| BH   | black hole                 | LC   | light curve        | SB   | spectroscopic binary |
| CB   | close binary               | LMXB | low-mass x-ray binary | WD   | white dwarf |
| CV   | cataclysmic variable       | NS   | neutron star       | WR   | Wolf-Rayet star |
| EB   | eclipsing binary           | PSR  | pulsar             | GW   | gravitational wave |
| HMXB | high-mass x-ray binary     | QPO  | quasi-periodic oscillation |
Individual Stars

XZ And
Yuan, J.-Z., Qian, S.-B. 2019, RAA 19, 128. (1ao, 5abe) A strange phenomenon: two Keplerian periods with a 1:3 ratio.

CN And
Cai, J.-T. et al. (4 authors) 2019, RAA 19, 106. (5ab) Mass transfer and possible third-body effect on the period of the near-contact binary.

DS And
Milone, E.F. et al. (4 authors) 2019, AJ 158, 82. (1ao, 2ao, 5abcde) Eclipsing SB2 in cluster NGC 752.

V348 And
Zasche, P. et al. (8 authors) 2019, AJ 158, 95. (1ao, 2ao, 5abcde) Eccentric EB in triple system.

V1333 Aql
Kubota, M. et al. (7 authors) 2019, PASJ 71, 33. (2dx, 5ij) An enigmatic (Aql X-1) hump around 30 keV in Suzaku spectra of the LMXB in the hard state.


V1343 Aql


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Rasul, K. et al. (4 authors) 2019, MNRAS, 485, 2970. (1g, 2dg, 5ij) Evidence of periodicity in the γ-ray emission from 9 year Fermi-LAT data.

V1405 Aql
Gambino, A.F. et al. (9 authors) 2019, A&A 625, A92. (2dx, 5i) Spectral analysis of the dipping LMXB.

V1828 Aql
Zhu, L.-Y. et al. (5 authors) 2019, RAA 19, 134. (1ao, 5abe) A close-in substellar object orbiting the sdOB-type EB.

V1838 Aql
Echevarria, J. et al. (18 authors) 2019, RMxAA 55, 21. (1ao, 5ab) Detailed study of superhumps and orbital period during 2013 superoutburst.

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V801 Ara

V821 Ara

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QZ Aur

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V808 Aur

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DW Cnc

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IU Cnc

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EZ CMa


η Car

Damineli, A. et al. (17 authors) 2019, MNRAS, 484, 1325. (1aiou, 5abc) Using HST and La Plata Observatory observations to distinguish circumstellar from stellar photometric variability.

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V430 Car

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UU Cas


AL Cas

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BH Cas

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GG Cas

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MQ Cen

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V779 Cen


CW Cep


BR Cir


TV Col


LL Com

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V691 CrA

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<td>Fossil field decay due to nonlinear tides in the massive binary.</td>
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<td>Accretion and outflow in the system.</td>
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V1187 Her
Caton, D. et al. (7 authors) 2019, PASP 131, 054203. (1ao, 2c, 5abc) Extreme mass ratio W UMa EB.

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22 Ori (HD 35039) Şahin, T., Derişioğlu, A. 2019, AstL 45, 528. (2cdo, 5h) B-type abundance standard candidate in Ori OB1.

V643 Ori Andersen, J., Torres, G., Clausen, J.V. 2019, A&A 624, A88. (1bo, 2ao, 5cde, 8c) Evolved, post-mass exchange detached EB.

V1853 Ori He, J.-J. et al. (6 authors) 2019, RAA 19, 56. (1ao, 4a, 5abcej) New photometric investigation of the low-mass-ratio contact binary.


V572 Per Zasche, P. et al. (8 authors) 2019, AJ 158, 95. (1ao, 2ao, 5abcde) Eccentric EB in triple system.


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VZ Psc Yue, Q. et al. (6 authors) 2019, RAA 19, 97. (1ao, 2co, 5abehg) Orbital parameters and period variation of the short-period EB.

DV Psc Gazeas, K., Palafouta, S. 2019, AcA 69, 261. (5abce) Magnetically active hierarchical triple system.


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V5512 Sgr Maiolino, T. at al. (5 authors) 2019, A&A 625, A8. (2dx, 5j) Red-skewed Fe Kα lines in the LMXB.


AR Sco Peterson, E, Littlefield, C., Garnavich, P. 2019, AJ 158, 131. (1ao*, 1ao, 2ao, 5cde) Long-term study shows lack of accretion or precession.

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RV Tau Manick, R. et al. (10 authors) 2019, A&A 628, A40. (1ao, 2ao, 4ao, 5cd) SB.

CM Tau Tuo, Y.-L. et al. (6 authors) 2019, RAA 19, 87. (1x, 5i) Insight-HXMT observations of the Crab PSR.
DQ Tau  

RV Tri  
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ER UMa  

KV UMa  

PZ UMa  

GP Vel  

HU Vel  

HX Vel  

NY Vir  

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CK Vul  

V378 Vul  

V382 Vul  

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

HD 5980  
*Hillier, D.J. et al.* (6 authors) 2019, MNRAS 486, 725. (1ou, 5cegj, 8a) Enigmatic system.

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HD 35039  
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HD 50169  
*Mathys, G. et al.* (8 authors) 2019, A&A 624, A32. (2da, 3h, 5d) Ap star magnetic field variations and updated orbital elements of the SB.

HD 81357  

HD 93162  

HD 96446  
(see V430 Car)

HD 98088  
(see SV Crt)

HD 98800  
(see TV Crt)

HD 121212  
*Scarfe, C.D.* 2019, RMxAA 55, 131. (2ao, 5d) RVs and orbit of SB1.

HD 130948 BC  
*Breisemeister, Z.W. et al.* (9 authors) 2019, AJ 157, 244. (2ai, 8ac) Study of brown-dwarf binary.
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Lester, K.V. et al. (8 authors) 2019, AJ 157, 140. (2ad, 4c, 5deghk) SB masses and distance from spectroscopic and CHARA astrometric orbits.

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Williams, S.J. et al. (7 authors) 2019, AJ 158, 118. (1ao*, 1ao, 2ao, 5cde) B-type EB.

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**SDSS J0222−0313**
Caffau, E. et al. (12 authors) 2019, A&A 628, A46. (2co, 5h) The first evidence of proton ingestion in a very low-metallicity CEMP star?

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**CRTS J031642.2+332639**
Michel, R. et al. (4 authors) 2019, RMxAA 55, 65. (1ao, 5abc, 6d) New W UMa system in same field as V1009 Per.

**CRTS J035010.7+323230**
Mason, P.A. et al. (5 authors) 2019, MNRAS 488, 2881. (1ao, 2abc, 5abcegi, 6b) A new eclipsing polar in the CV period gap.

**1A 0538−66**

**Ducci, L. et al. (5 authors) 2019, A&A 624, A9. (2dx*, 5i, 8b) X-ray reprocessing and irradiation in the Be/XB outbursts.**

**MASTER OT J061451.70−272535.5**

**1A 0620−00**
(see V616 Mon)

**Swift J0746.3−1608**

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Perikh, A.S. et al. (4 authors) 2019, RMxAA 55, 55. (1ao, 2d) Follow-up observations suggest transient event was superoutburst of dwarf nova.

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**GRO J1008−57**

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Ray, P.S. et al. (13 authors) 2019, ApJL 878, L22. (2dx) Flux is dominated by hot spot(s) on the NS.

PSR J1306−40

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Paice, J.A. et al. (16 authors) 2019, MNRAS 488, 512. (1orx, 5cgi, 8a) Multiwavelength photometry.

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MAXI J1535−571
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Sreerahi, H. et al. (7 authors) 2019, MNRAS 487, 928. (1x, 5becgi) Broadband spectro-temporal features.


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4U 1543−47
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GRS 1716−249
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Liu, J. et al. (8 authors) 2019, RAA 19, 73. (1r, 5b) One large glitch detected with the Shanghai Tian Ma Radio Telescope (TMRT).

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XB 1822–371
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XB 1822–371
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(see V1405 Aql)

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**X-ray sources with constellation or galaxy names**

Aql X-1
(see V1333 Aql)

Cen X-3
(see V779 Cen)

Cir X-1
(see BR Cir)

Cyg X-1
(see V1357 Cyg)

Her X-1
(see HZ Her)

Sgr X-1
(see 1RXS J174755.8–263352)

Sgr X-4
(see 4U 1820–30)

Sgr X-7
(see V691 CrA)

Vel X-1
(see GP Vel)
SMC X-1 (see 2MASS J01170514−7326360)

Objects with other designations

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<th>Designation</th>
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<tr>
<td>ASASSN-18ey</td>
<td>(see MAXI J1820+070)</td>
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<td></td>
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<tr>
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<tr>
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<td>GX 3+1</td>
<td>(see IRXS J174755.8−263352)</td>
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<td>GX 354-00</td>
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KIC 7368103 (see 2MASS J19333970+4255021)
KIC 7385478 (see 2MASS J19505785+4254549)
KIC 8145411 (see 2MASS J18500799+4404247)
KIC 8823397 (see 2MASS J19342636+4501070)
KIC 10544976 (see 2MASS J19423720+4745486)
KIC 12004834 (see 2MASS J19060913+5027500)
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