

Contents

Opening Remarks

The Golden Age of Cataclysmic Variables and Related Objects (Old and News)	3
<i>F. Giovannelli, L. Sabau-Graziati</i>	
The Ritter-Kolb Catalogue and its Impact on Research into CVs, LMXBs and related Objects	21
<i>H. Ritter, U. Kolb</i>	
The Space Density of Magnetic and Non-magnetic Cataclysmic Variables, and Implications for CV Evolution	26
<i>M. L. Pretorius</i>	

Cataclysmic Variables

White Dwarfs in Cataclysmic Variables: An Update	35
<i>E. M. Sion, P. Godon</i>	
CVs Around the Minimum Orbital Period	41
<i>S. Zharikov, G. Tovmassian</i>	
Transient Processes in a Binary System with a White Dwarf.	46
<i>D. A. Kononov et al.</i>	
Optical Photometry of LMXBs: UW CrB (=MS 1603+260) and V1408 Aql (=4U 1957+115)	50
<i>P. A. Mason et al.</i>	
Cataclysmic Variables from SDSS: A Review and A Look Forward to LSST	55
<i>P. Szkody</i>	
On the Influence of Magnetic Field on Accretion Processes in CVs	60
<i>D. V. Bisikalo, A. G. Zhilkin</i>	
Multifrequency Behaviour of Polars	66
<i>K. Reinsch</i>	
Photometry and Multipolar Magnetic Field Modeling of Polars: BY Camelopardalis and FL Ceti	71
<i>P. A. Mason et al.</i>	
Probing the Accretion Processes in Soft X-Ray Selected Polars	76
<i>I. Traulsen, K. Reinsch, A. D. Schwöpe</i>	
Activity of the Polar AM Her (RX J1816.2+4952): A Short Review	81
<i>V. Šimon, A. Henden</i>	

AE Aquarii: A Short Review	86
<i>P. J. Meintjes, A. Odendaal, H. van Heerden</i>	
Simultaneous UBVRI Observations of the AE Aquarii Blobs	90
<i>G. Latev et al.</i>	
Supersoft X-Ray Source CAL 83: A Possible AE Aqr-like System	94
<i>A. Odendaal et al.</i>	
<i>Suzaku</i> View of Magnetic Cataclysmic Variables	99
<i>T. Yuasa</i>	
Why a New Code for Novae Evolution and Mass Transfer in Binaries?	103
<i>G. Shaviv, I. Idan, N. J. Shaviv</i>	
Broad-Band Variability in Accreting Compact Objects	107
<i>S. Scaringi</i>	
Flickering in CVs and Accretion Disc Viscosity	111
<i>R. Baptista</i>	
Inner Disk Structure of Dwarf Novae in the Light of X-Ray Observations	116
<i>Ş. Balman</i>	
Photometric and Spectroscopic Investigation of the Dwarf Nova HS 0218+3229: A Short Review	123
<i>N. Katysheva et al.</i>	
Investigating Long-Term Behaviour of X-ray Binaries Using Archival Data	128
<i>M. M. Kotze, P. A. Charles</i>	
Observing CVs and LMXBs with SALT: Updates and Recent Results	133
<i>David A. H. Buckley</i>	
High-Speed Photo-Polarimetry of Magnetic Cataclysmic Variables	139
<i>S. B. Potter</i>	
Model Atmosphere Spectrum Fit to the Soft X-Ray Outburst Spectrum of SS Cyg	143
<i>V. F. Suleimanov et al.</i>	
SS Cygni Revisited	148
<i>R. C. Smith et al.</i>	
Evolution and Outbursts of Cataclysmic Variables	152
<i>S.-B. Qian et al.</i>	
Outburst Properties of V1504 Cyg and V344 Lyr	156
<i>J. K. Cannizzo</i>	
Study of Photometric Variability of Selected SU UMa Dwarf Novae	161
<i>I. Voloshina, V. Metlov</i>	
Superoutburst of a New Sub-Period-Minimum Dwarf Nova CSS130418 in Hercules	165
<i>D. Chochol et al.</i>	
New Insights from Inside-Out Doppler Tomography	170
<i>E. J. Kotze, S. B. Potter</i>	
Application of Total Variation Minimization to Doppler Tomography	174
<i>M. Uemura et al.</i>	

The Hidden Population of AM CVn Binaries in the Sloan Digital Sky Survey <i>P. J. Carter et al.</i>	178
Close-In Substellar Companions and the Formation of sdB-Type Close Binary Stars <i>L. Y. Zhu et al.</i>	183
SW Sex Stars, Old Novae, and the Evolution of Cataclysmic Variables <i>L. Schmidtbreick, C. Tappert</i>	188
The Role of Magnetic Field for Quiescence-Outburst Models in CVs <i>S. De Bianchi, V. F. Braga, S. Gaudenzi</i>	192
 Classical Novae, Recurrent Novae and Nova-Like Stars	
A New Review of Old Novae <i>A. Pagnotta</i>	199
Theory of Nova Outbursts and Type Ia Supernovae <i>M. Kato, I. Hachisu</i>	205
Detection of Diatomic Molecules in the Dust Forming Nova V2676 Oph <i>M. Nagashima et al.</i>	212
The Slow Nova V1280 Sco: A Short Review <i>H. Naito</i>	217
Early Super Soft Source Spectra in RS Oph <i>J.-U. Ness</i>	222
When a Nova Becomes Old <i>A. Ederoclite et al.</i>	226
Life After Eruption: Best of 2009–2013 <i>C. Tappert et al.</i>	230
The Nova V5584 Sgr: A Short Review <i>R. Poggiani</i>	234
Spectroscopic Monitoring Observations of Nova V1724 Aql in 2012 <i>T. Kajikawa et al.</i>	238
Line Evolution of the Nova V5587 Sgr from Early to Nebula Phase <i>T. Kajikawa et al.</i>	242
Recurrent Novae — A Review <i>K. Mukai</i>	246
The Recurrent Eclipsing Nova U Sco: A Short Review <i>R. González-Riestra</i>	252
Optical Low Resolution Spectroscopic Observations of T Pyx during the Early Phase of 2011 Outburst <i>A. Arai et al.</i>	257
Properties of Recurrent Nova T Pyxidis Based on 2011 Outburst <i>K. Tanabe</i>	261

On the 2011 Outburst of the Recurrent Nova T Pyxidis <i>L. Izzo et al.</i>	264
X-Ray Observations of VY Scl-Type Nova-Like Binaries in the High and Low State <i>P. Zemko, M. Orio</i>	269
The <i>UBV</i> Color Evolution of Classical and Symbiotic Novae <i>I. Hachisu, M. Kato</i>	273
What Powers the 2006 Outburst of the Symbiotic Star BF Cygni? <i>A. Skopal et al.</i>	277
Diagnostic of the Symbiotic Stars Environment by Thomson, Raman and Rayleigh Scattering Processes <i>M. Sekeráš, A. Skopal</i>	282
Rotation of the Mass Donors in High-mass X-ray Binaries and Symbiotic Stars <i>K. Stoyanov, R. Zamanov</i>	286
Ongoing Experiments	
Non Relational Models for the Management of Large Amount of Astronomical Data <i>B. L. Martino, M. Federici</i>	293
Study of Cataclysmic Variables with the Satellites LOFT and Gaia <i>R. Hudec, V. Šimon</i>	297
GLORIA and Study of Cataclysmic Variables <i>R. Hudec, V. Šimon</i>	303
Special Night	
Who Discovered the Hoyle Level? <i>G. Shaviv</i>	311
Concluding Remarks	
Concluding Remarks <i>D. V. Bisikalo</i>	323
Golden Era of Cataclysmic Variables and Related Objects II: Concluding Remarks <i>R. Hudec</i>	325
Concluding Address	
The Golden Age of Cataclysmic Variables and Related Objects - II Concluding Address <i>F. Giovannelli</i>	331