

IAU SYMPOSIUM 240

BINARY STARS AS CRITICAL TOOLS & TESTS IN CONTEMPORARY ASTROPHYSICS

Prague, Czech Republic
22-25 August 2006

Program
as of 10 August 2006

TUESDAY, AUGUST 22 (MORNING SESSIONS 1/2)

Welcome and Introductory Address

Overview of Binary and Multiple Stars as Critical Tools & Tests in Contemporary Astrophysics —
The Dawn of the Century of Discovery

Speakers: P. Harmanec (Czech Rep.) & E. Guinan (USA) [30 min.],

I. New Observing Techniques and Reduction Methods

A. Observing with high angular and spectral resolution

1. Overview of Multiple-Aperture Interferometry Binary Star Results from the Northern Hemisphere
Invited Speaker: H. McAlister (USA) [40 min.]
2. Overview of Multiple-Aperture Interferometry Binary Star Results from the Southern Hemisphere
Invited Speaker: J. Davis (Australia) [20 min.]
3. Space-based Long Baseline Interferometry for a New Era of Binary Star Research
Invited Speaker: M. Shao (USA) [20 min.]
4. Interferometry with single telescopes
Invited Speaker: Y. Balega (Russia) [30 min.]
5. High-precision radial-velocity measurements
Invited Speaker: A. Hatzes (Germany) [30 min.]

Poster highlights [15 min.]

- ★ Spectroscopic Binary Candidates For Interferometers
Speaker: F.C. Fekel
- ★ Interferometric investigations of eclipsing binaries as a key to an improved distance scale
Speaker: A. Richichi

TUESDAY, AUGUST 22 (AFTERNOON SESSIONS 3/4)

B. New possibilities for standard observational techniques

1. The new era of eclipsing binary research with large telescopes
Invited Speaker: I. Ribas (Spain) [30 min.]
2. Eclipsing binaries in Local Group galaxies
Invited Speaker: A. Bonanos (USA) [30 min.]
3. ‘Classical’ Observations of Visual Binary and Multiple Stars
Invited Speaker: B. Mason (USA) [30 min.]
4. Toward a common language — the Washington Multiplicity Catalog:
Speaker: W. Hartkopf (USA) [15 min.]

C. Improved methods of data analysis

1. Modern Techniques for the Analysis of Spectroscopic Binaries
Invited Speakers: H. Hensberge (Belgium) & K. Pavlovski (Croatia) [40 min.]

Poster highlights [40 min.]

- ★ Polaris: Mass and Multiplicity
Speaker: N.R. Evans
- ★ DE CVn: A Bright, Eclipsing Red Dwarf - White Dwarf Binary
Speaker: EJM Van den Besselaar
- ★ The Eclipsing Triple System U Ophiuchi Revisited
Speaker: LPR Vaz
- ★ New Trends in Disentangling of the Spectra of Multiple Stars
Speaker: P. Hadrava
- ★ Binary Stars in the Orion Nebula Cluster
Speaker: R. Koehler

WEDNESDAY, AUGUST 23 (MORNING SESSIONS 5/6)

C. Improved methods of data analysis (continued)

2. Bipolar Jets, Hot Interaction Regions, and Colliding Winds in OB Interacting Binaries
Invited Speaker: G. Peters (USA) [15 min.]
3. Studying Magnetic Activity in Cataclysmic Binaries using Near-IR Spectroscopy
Invited Speaker: S. Kafta (Chile) [15 min.]
4. Doppler Tomography of Accretion Disks and Streams in Close Binaries
Invited Speaker: M. Richards (USA) [30 min.]
5. Doppler Imaging and Eclipse Maps of Spotted Stars
Invited Speaker: K. Strassmeier (Germany)[30 min.]
6. Reducing Data from Long-Baseline Interferometers
Invited Speaker: T.A. ten Brummelaar (Australia/USA) [30 min.]
7. Models of Binary Star Observables over the Triennium
Invited Speaker: R. Wilson (USA) [30 min.]

Poster highlights [30 min.]

- ★ Line-Profile Variations on Massive Binary Systems: determining eta Carinae orbital parameters
Speaker: D. Falceta-Gonalves
- ★ Evidence for a precessing disk in the extreme binary, epsilon Aurigae
Speaker: R.E. Stencel
- ★ New Findings Supporting the Presence of Various Structures of the Circumstellar Matter in the Beta Lyr System
Speaker: Pavel Chadima

WEDNESDAY, AUGUST 23 (AFTERNOON SESSIONS 7/8)

D. Observing in the Era of Large-Scale Surveys

1. Binaries in Large-Scale Surveys
Invited Speaker: D. Pourbaix (Belgium) [40 min.]
2. Pipeline Reduction of Binary Light Curves from Large-Scale Surveys
Invited Speakers: A. Prsa (Slovenia) & T. Zwitter (Slovenia) [40 min.]
3. Reduction of Eclipsing Binary Data in the Magellanic Clouds
Invited Speaker: T. Mazeh (Israel) [10 min.]
4. The Kepler Mission and Binary Stars
Invited Speaker: D. Koch (USA) [20 min.]
5. Evaluating with ground-based spectroscopy and Hipparcos photometry the Gaia contribution to the field of Eclipsing Binaries
Invited Speaker: P.G. Niarchos (Greece), U. Munari (Italy), & T. Zwitter (Slovenia) [15 min.]
6. The RAdial Velocity Experiment (RAVE)
Invited Speaker: T. Zwitter (Slovenia) and the RAVE team [15 min.]

Poster highlights [20 min.]

- ★ Search and study of companions around Herbig Ae/Be stars
Speaker: S.J. Thomas
- ★ Multiplicity in a Complete Sample of Giant Stars
Speaker: S Reffert
- ★ A Multiplicity Survey of Solar-Type Stars in the Solar Neighbourhood
Speaker: D. Raghavan
- ★ Close binaries in the CoRoT space experiment
Speaker: C. Maceroni
- ★ Astrometric imaging of the wide binary HD 19994 with a radial velocity planet candidate with sub-milliarcsec precision
Speaker: R. Neuhaeuser

THURSDAY, AUGUST 24 (MORNING SESSIONS 9/10)

II. Binary Stars as Critical Tools for obtaining direct and reliable information

A. The need to improve basic calibrations

1. Critical comparison of Hipparcos and earlier trigonometric parallaxes with those derived from astrometry, interferometry + spectroscopy, etc.

Invited Speaker: W. van Altena (USA) [*CANCELLED*]

2. Interferometric Constraints on Gravity Darkening with Application to the Modelling of Spica A & B

Invited Speaker: J. Aufdenberg (USA) [*30 min.*]

3. The Distance to the Pleiades Revisited

Invited speaker: D. Valls-Gabaud (USA) [*20 min.*]

B. Increasing possibilities of classical methods: a few examples

1. A new look into the apsidal motion test of eclipsing binaries

Invited Speaker: A. Gimenez (Spain) [*30 min.*]

2. The Sun's Smaller Cousins Are Running The Universe — The Masses Of Red And Brown Dwarfs

Invited Speaker: T. Henry (USA) [*30 min.*]

3. Recent Developments in Extrasolar Planet Systems

Invited Speaker: B. Lane (USA) [*30 min.*]

4. Fragile Binaries as Observational Leverage on 'Difficult Astrophysical Problems'

Invited Speaker: T. Oswalt (USA) [*20 min.*]

Poster highlights [*30 min.*]

- ★ Direct measurement of tidal dissipation in very eccentric binaries

Speaker: A. Tokovinin (Chile) or N. Shatsky (Russia)

- ★ V477 Cygni - A Theoretical Approach Of The Apsidal Motion

Speaker: R. Roman

- ★ Ejection of Runaway Binary Stars

Speaker: M.V. McSwain

FRIDAY, AUGUST 25 (MORNING SESSIONS 11/12)

B. Increasing possibilities of classical methods (continued)

5. Catalogs of Common Proper Motion Binaries: a Gold Mine for Galactic Studies
Invited Speaker: J. Chaname (Peru/USA) [20 min.]

C. Evolutionary models for binary and multiple stars

1. Progress in the theories of binary formation
Invited Speaker: C. Clarke (UK) [30 min.]
2. Progress in the theories of binary evolution: New results from models in more dimensions
Invited Speakers: L. Kisseleva-Eggleton (USA) & P. Eggleton (USA) [30 min.]
3. Testing and improving the dynamical theory of mass exchange
Invited Speaker: D. Bisikalo (Russia) & T. Matsuda (Japan) [40 min.]
4. Young binaries as a test for pre-Main Sequence evolutionary tracks
Invited Speaker: H. Zinnecker (Germany) [20 min.]

Poster highlights [20 min.]

- ★ Eclipsing binaries in the LMC: a wealth of data for astrophysical tests
Speaker: A. Derekas
- ★ The Initial-to-final Mass Function of White Dwarfs in Common Proper Motion Pairs
Speaker: S. Catalan

III. Binary Stars as Critical Tests for studying specific phenomena

A. Binary stars as probes of our Galaxy:

1. Close Pairs as Probes of the Galaxy's Chemical Evolution
Invited Speaker: D. Vanbeveren (Belgium) [30 min.]

FRIDAY, AUGUST 25 (AFTERNOON SESSIONS 13/14)

A. Binary stars as probes of our Galaxy (continued):

2. Halo Wide Binaries and Moving Clusters as Probes of the Dynamical and Merger History of our Galaxy
Invited Speaker: C. Allen (Mexico) [20 min.]
3. Observed Orbital Eccentricities
Invited Speaker: H. Abt (USA) [10 min.]
4. The Frequency Distribution of Semi-major Axis of Wide Binaries. Cosmogony and Dynamical Evolution
Invited Speaker: A. Poveda (Mexico) [20 min.]

B. Asteroseismology; Stellar Activity:

1. Asteroseismology of close binary stars
Invited Speaker: C. Aerts (Belgium) [30 min.]
2. The influence of binarity on stellar activity
Invited Speaker: K. Olah (Hungary) [30 min.]

Poster highlights [20 min.]

- * Active Longitudes And Flip-Flops In Binary Stars
Speaker: H. Korhonen
- * Discovery of four Beta Cephei stars in eclipsing binary systems
Speaker: A. Pigulski

* Summary talk #1 (techniques & tools)

Invited Speaker: C. Scarfe (Canada) [20 min.]

* Summary talk #2 (tools & tests)

Invited Speaker: V. Trimble (USA) [20 min.]

* Closing comments and thanks

Speaker: W. Hartkopf (USA) [10 min.]

Posters

Listed below are poster titles and abstracts, sorted by session and title.

I. New Observing Techniques and Reduction Methods

A. Observing with high angular and spectral resolution

1. Accessing small inner working angles with a rotating sub-aperture nuller on a single-aperture telescope
Author(s): E. Serabyn
2. Binary Stars as Critical Tools for Space Astrometry
Author(s): X. Pan
3. Comparison of selected methods of the radial velocity measurements
Author(s): Stefan Parimucha
4. Double Stars Speckle Interferometry With The 3.5 m Telescope At Calar Alto (Almeria, Spain)
Author(s): J.A. Docobo
5. GL 659B: A Brown Dwarf Triple?
Author(s): M. Simon, C. Bender, & L. Prato
6. Interferometric investigations of eclipsing binaries as a key to an improved distance scale
Author(s): A. Richichi
7. Introduction to the 30m Ring Interferometric Telescope
Author(s): S.-B. Qian (Presenter: Z. Liu)
8. Spectroscopic Binary Candidates For Interferometers
Author(s): F.C. Fekel
9. Spitzer Observations of the Eclipsing Binary GU Bootes
Author(s): G. van Belle
10. The Eclipsing-Spectroscopic-Interferometric Triple Star xi Tauri = HD21364
Author(s): C.T. Bolton
11. Tomography of the X-ray Binary Cyg X-1 Based on High-Resolution Optical Spectroscopy
Author(s): E.A. Karitskaya
12. V379 Cep: A Quadruple System of Two Binaries
Author(s): P.M. Mayer (Presenter: P. Harmanec)

B. New possibilities for standard observational techniques

1. Activities and achievements of the Double Star Committee of the French Astronomical Society
Author(s): E. J. Soulie
2. An Abundance Analysis of the Symbiotic Star CH Cyg
Author(s): L. Zacs
3. An Investigation of the Small Eccentricity in the Spectroscopic Binary System zeta TrA
Author(s): S. Komonjinda
4. An Optical Search for Dwarf Novae in M22
Author(s): A. Hourihane
5. A periodic perturbations of relative motion in multiple system ADS 15571.
Author(s): E. A. Grosheva
6. Binary Stars in the Orion Nebula Cluster
Author(s): R. Koehler

7. DE CVn: A Bright, Eclipsing Red Dwarf - White Dwarf Binary
Author(s): EJM Van den Besselaar
8. Determination of the orbits and the estimation of the masses of ADS 7251 and ADS 5983 (Delta Gem)
Author(s): N.A. Shakht
9. Discovery of a new dwarf nova, TSS J022216.4+412259.9: WZ Sge-type dwarf novae breaking the shortest superhump period record
Author(s): A. Imada
10. Duplicity among lambda Boo stars : the new case of HD 204041
Author(s): M. Gerbaldi
11. Evidence of a Change in the Long Term Spin Down Rate of the X-Ray Pulsar 4U 1907+09
Author(s): Altan Baykal (Presenter: Elif Beklen)
12. Four massive O-type eclipsing binaries.
Author(s): EFL Eduardo Fernandez Lajs
13. GD 552: a member of the missing post-period-minimum CVs
Author(s): E. Unda-Sanzana
14. JH and K-band spectra of three SU UMa-type Dwarf Novae
Author(s): R. Ishioka
15. LIADA's Double Star Section: Studies Of Visual Double Star By Amateurs
Author(s): frica Francisco Rica (Presenter: J. Ling)
16. Light Curves of Two Eclipsing Binary Systems, BL Eridani and GW Cephei
Author(s): W Han
17. Long-Term Changes of the Supergiant in the X-Ray Binary Cyg X-1
Author(s): E.A. Karitskaya
18. Long-term photometric behaviour of symbiotic system AG Dra
Author(s): Rudolf Galis
19. Magnetic Cataclysmic Variable Star: AM Her
Author(s): B. Kalomeni
20. Masses of Early-type Contact Binary Systems
Author(s): K.C. Leung
21. Multiple Stellar Systems with Eclipsing Binaries
Author(s): E. Oblak
22. Optical spectra of ultra-compact X-ray binaries
Author(s): G. Nelemans
23. Orbit and estimations of masses of components of ADS 14636 (61 Cygni) on the basis of photographic observations at Pulkovo Observatory
Author(s): D.L. Gorshanov
24. Parameters of the two helium-rich subdwarfs in the short period binary PG1544+488
Author(s): A. Ahmad
25. Photometric & Spectroscopic Analysis of the Eclipsing Binaries: RT Scultoris and TW Ceti
Author(s): P. Vivekananda Rao
26. Photometric Analysis of the Eclipsing Binary: DE Canis Venatici (RX J1326.9+4532)
Author(s): U.D. Goker
27. Photometric investigation of near-contact binary FR Ori
Author(s): Rudolf Glis
28. Photometric Study of the short period W UMa system – FZ Orionis
Author(s): Jayant Kumar Pendharkar
29. Polaris: Mass and Multiplicity
Author(s): N.R. Evans

30. Properties of Cyg X-1 Optical Component
Author(s): E.A. Karitskaya
31. Radial-Velocity Analysis of the Post-AGB Star, HD101584
Author(s): F M Daz
32. SDSSJ 080434.20+510349.2: Discovery of a New WZ Sagittae (?) Star Showing 9 Echo Outbursts
Author(s): E.P. Pavlenko
33. The astrometric study of the triple system ADS 9173.
Author(s): O.V. Kiyaveva
34. The BVRI Light Curves and Period Analysis of the Beta Lyrae System XX Leonis
Author(s): P. Zasche
35. The BVRI Photometry of the Asynchronous Polar V1500 Cyg in Different Phases of Synodical Cycle in 2005-2006.
Author(s): A.A. Litvichova
36. The Double-Lined Spectroscopic Binary theta 1 Ori E: An Intermediate-Mass, Pre-Main Sequence System
Author(s): R Costero
37. The Eclipsing Triple System U Ophiuchi Revisited
Author(s): LPR Vaz
38. The first photometric analysis of the near-contact binary V370 Cygni
Author(s): V.N. Manimanis
39. The mass excess in the systems of wide visual double stars on the basis of apparent motion parameters method, Hipparcos parallax and WDS data.
Author(s): O.V. Kiyaveva
40. The multiple system SZ Cam
Author(s): G. Michalska
41. The Orbit and Properties of the BD+60 73 + IGRJ00370+612 Supergiant X-Ray Binary
Author(s): C.T. Bolton
42. The Orbit of the Visual Binary ADS 8630
Author(s): R.W. Argyle
43. The Orbit of T Tauri South
Author(s): R. Koehler
44. The Remarkable Eclipsing Binary TW Draconis
Author(s): M. Zejda
45. U.S. Naval Observatory Double Star CD 2006.5
Author(s): B.D. Mason
46. X-raying OB stars in the Cygnus OB2 region
Author(s): JFAC Albacete Colombo

C. Improved methods of data analysis

1. Abundances from Disentangled Component Spectra: High-mass Stars in the Eclipsing Binaries CW Cep and V478 Cyg
Author(s): K. Pavlovski
2. Accretion Disks of Binary Stars as a Probe to Accretion Disks of other Astrophysical Objects
Author(s): R.N. Eze
3. A Potential Stabilizing Magnetic Effect For Astrophysical jets
Author(s): M.V. Viallet
4. Comparison of different spectral disentangling techniques applied to a triple system
Author(s): K. B. Torres

5. Doppler Imaging of Stars with Roche-geometry
Author(s): Zs. Kovari
6. Dwarf Novae In Outburst: Some Results Of The Eclipse Mapping Method
Author(s): B.W. Borges
7. Eclipse Mapping of Accretion Structures in Cataclysmic Variables
Author(s): A.V. Halevin
8. Eclipse Mapping of the W UMa-type Binary EQ Tau
Author(s): Zs. Kovari
9. Evidence for a precessing disk in the extreme binary, epsilon Aurigae.
Author(s): R.E. Stencel
10. Expanded Bandpass List for Atmospheric Emission in Eclipsing Binary Models
Author(s): W. Van Hamme
11. FUSE Observations of an Accretion Hot Spot on the B7 Mass Gainer in the U Cephei System
Author(s): G J Peters
12. HD 61273: a new semi-detached binary with an accretion disk
Author(s): F. Royer
13. Hydrodynamic Simulations Of Illuminated Secondary Atmospheres In Dwarf Novae
Author(s): M.V. Viallet
14. Line-Profile Variations on Massive Binary Systems: determining eta Carinae orbital parameters
Author(s): D. Falceta-Gonalves
15. MIDI observations of IRCs : constraining the geometry of the warm circumstellar environment
Author(s): S. Correia
16. New Findings Supporting The Presence Of Various Structures Of The Circumstellar Matter In The Beta Lyr System
Author(s): Pavel Chadima
17. New Results of Light Curve Modeling With Simultaneous Solutions Using the 2004 Version of the Wilson Code
Author(s): Ronald Samec
18. New Results on the Early-type Close Binary CV Velorum
Author(s): K. Yakut
19. New Trends in Disentangling of the Spectra of Multiple Stars
Author(s): P. Hadrava
20. Properties of Circumstellar Dust in Symbiotic Miras
Author(s): D. Kotnik-Karuza
21. RR Lyrae in M15: Fourier Decomposition and Physical Parameters
Author(s): G.G. Garcia
22. Search and study of companions around Herbig Ae/Be stars
Author(s): S.J. Thomas
23. Spectral disentangling and combined orbital solution for the Hyades binary Theta 2 Tau
Author(s): P. Lampens
24. Stretching Accretion Disk Spectral Mapping Towards its Limits: The Interesting Case of DQ Her
Author(s): R. K. Saito
25. Structure of Circumbinary Disk around Eccentric Binary
Author(s): Y. Imaeda
26. The analysis of the CBS high resolution spectra as method of the PN chemical composition investigation
Author(s): N.N. Shimanskaya

27. The H-alpha Accretion Region in AB Persei
Author(s): Lee Chung-Uk
28. The oxygen triplet at 777nm as a tool to disentangle composite spectra in the domain of A-type stars
Author(s): M. Gros (Presenter: M. Gerbaldi)
29. The Peculiarities of Accretion of Asynchronous Polar BY Cam In the Low Brightness State
Author(s): J.V. Babina
30. U Geminorum: a test case for orbital parameters determination
Author(s): J. Echevarria
31. Unified Model of Symbiotic Binaries
Author(s): A. Skopal
32. W Ursae Majoris Type Contact Binaries
Author(s): L. Li
33. Window to the Stars
Author(s): R.G. Izzard

D. Observing in the Era of Large-Scale Surveys

1. A Hundred New Preliminary Orbits and Masses from Hipparcos, Ground-based Astrometry and Radial Velocities
Author(s): G. Gontcharov
2. A Multiplicity Survey of Solar-Type Stars in the Solar Neighbourhood
Author(s): D. Raghavan
3. CCD astrometry and photometry of visual double stars VI. Northern HIPPARCOS wide pairs measured in the years 2003-2005
Author(s): Panos Gavras
4. Close binaries in the CoRoT space experiment
Author(s): C. Maceroni
5. Eclipsing Binaries In Open Clusters
Author(s): J K Taylor (Presenter: J Southworth)
6. Frontiers of transient phenomena in X-ray binaries and cataclysmic variables investigated by a high-speed CCD camera and an automated monitor telescope
Author(s): D. Nogami
7. Gaia Treatment of Astrometric Binaries with a Variable Component: VIM, VIMA, VIMO
Author(s): J-L Halbwachs
8. Multiplicity in a Complete Sample of Giant Stars
Author(s): S Reffert
9. Procedure for the Classification of Eclipsing Binaries
Author(s): E. Oblak
10. Search for Binary Systems from the SDSS
Author(s): K-W Lee
11. Using MECI to Mine Eclipsing Binaries from Photometric Exoplanet Surveys
Author(s): J Devor
12. Wind collision effects from FUSE observations of massive binaries in the Milky Way and in the Magellanic Clouds
Author(s): R.C. Iping
13. WIRE Satellite Light Curves of Bright Eclipsing Binary Stars
Author(s): H. Bruntt

II. Binary Stars as Critical Tools

for obtaining direct and reliable information

B. Increasing possibilities of classical methods: a few examples

1. Absolute Parameters of the O-type Eclipsing Binary V 1007 Sco
Author(s): S. N. Nesslinger
2. A Mass Estimate in a Sample of Double Stars
Author(s): S. Ninkovic (Z. Cvetkovic presenting)
3. Astrometric imaging of the wide binary HD 19994 with a radial velocity planet candidate with sub-milli-arc-sec precision
Author(s): R. Neuhaeuser
4. CM Draconis: Masses and Radii of Very-low Mass Stars
Author(s): J. C. Morales (Presenter: I. Ribas)
5. Detection of Precession of White Dwarfs in Interactive Binaries.
Author(s): G Tovmassian
6. Direct measurement of tidal dissipation in very eccentric binaries
Author(s): A. Tokovinin (Chile) & N. Shatsky (Russia)
7. Eclipsing binaries as a test for synthetic photometry
Author(s): U. Heiter
8. GQ Lup, 2M1207, and AB Pic: Planet companion candidates imaged directly and their relevance in orbital dynamics and mass estimation via theoretical models
Author(s): R. Neuhaeuser
9. Looking for Exoplanet Transits in Bright Stars with Small Field-of-View Detectors
Author(s): E. Martioli (Brazil)
10. Low-mass Eclipsing Binaries To Refine Barnes-Evans-like Relations
Author(s): P.J. Amado
11. Multiplicity study of Exoplanet host Stars
Author(s): R. Neuhaeuser
12. Near-Infrared Light Curves of a Young, Eclipsing Binary of Brown Dwarfs
Author(s): Y Gomez Maqueo Chew
13. New Candidate To Exotic Eclipsing Systems H 187
Author(s): O. Barsunova
14. Orbital period changes of OB-type contact binaries and their implications for the triplicity, formation and evolution of this type of binary stars
Author(s): S.-B. Qian
15. Preliminary Orbit and Masses of the Nearby Binary L Dwarf GJ 1001BC
Author(s): D. A. Golimowski
16. Quasi-Molecular K-H2 Absorption as an Alternative to the Resurgence of CaH Bands in the Spectra of T-Type Dwarfs: Is the Cloud-Clearing Scheme at Stake?
Author(s): F Allard
17. RZ Cassiopeia: Eclipsing Binary with Pulsating Component
Author(s): Alex Golovin
18. Search for Exoplanets and Variables in the Open Cluster NGC 381
Author(s): J Hu
19. The Binary Star Gamma Persei: Bright, but Ill-Understood
Author(s): R.E.M. Griffin
20. The Population of Close Binaries Dynamically Formed in Hierarchical Triple Systems, with Application to Extrasolar Planets
Author(s): DC Fabrycky

21. The UV Spectrum of the Binary Star 88 Her: Activity Cycles in the Circumstellar Envelope
Author(s): A. Granada
22. V477 Cygni - A Theoretical Approach Of The Apsidal Motion
Author(s): R. Roman

C. Evolutionary models for binary and multiple stars

1. Analytical Binary Modeling and its Role in Dynamics
Author(s): TKC Chatterjee
2. Application of Strong Spin Correlation in Visual Binaries
Author(s): NF Farbiash
3. Binary Evolution Channels explaining the subdwarf B star PG1336-018
Author(s): H Hu
4. Binary Population Synthesis
Author(s): Z. Han
5. Binary Pulsars: An Alternative Relativistic Approach
Author(s): M.I. Wanas
6. Binary Pulsars as a Test for Galactic Models
Author(s): V.V. Orlov
7. Binary Stars As A Probe For Massive Star Evolution: A Case Of Delta Ori
Author(s): A. Kholtygin
8. Calibration of the Pre Main Sequence Binary System RS Cha: Impact of the Initial Chemical Mixture
Author(s): Y. Lebreton
9. Confronting Stellar Evolution Models for Active and Inactive Solar-Type Stars: The Triple System V1061 Cygni
Author(s): G. Torres (Presenter: C. H. Lacy)
10. Early Evolution Of The 2006 Eruption Of The Recurrent Novae RS Oph
Author(s): G.S. Stringfellow
11. Ejection of Runaway Binary Stars
Author(s): M.V. McSwain
12. Eta Carinae and the Homunculus: an Astrophysical Laboratory
Author(s): TR Gull
13. Fe II and He I activity of Pleione at the end of its Be-phase.
Author(s): L. Iliev
14. Finding the Primordial Binary Population in Sco OB2: on the interpretation of binary star observations
Author(s): M.B.N. Kouwenhoven
15. How To Measure Gravitational Aberration?
Author(s): A. Solkova (Presenter: M. Krizek)
16. Near-Contact Binaries (NCB): Close Binary Systems in a Key Evolutionary Stage
Author(s): ZLY Zhu
17. On the Evolutionary History of EHB Objects in Binary Systems with Hot Subdwarf Companions
Author(s): Izold Pustynnik
18. Orbits Of Post-AGB Binaries With Dusty Discs
Author(s): T. Lloyd Evans
19. Probing the Low-Luminosity X-ray LF of LMXBs in Normal Elliptical Galaxies
Author(s): D.-W. Kim
20. Relativistic Dispersion Effects on SS433 Jets
Author(s): E.D. Lopez
21. Stellar Multiplicity and its Evolutionary Consequences
Author(s): P. P. Eggleton
22. Structure and Evolution of Gravi-Magnetic Rotators in Cataclysmic Variables
Author(s): I.L. Andronov

23. Study on the Period Behavior of the Eclipsing System V839 Ophiuchi
Author(s): Magdy Elkhateeb
24. Subdwarf B stars: Tracers of Binary Evolution
Author(s): L Morales-Rueda
25. Testing Models Of Interacting Binaries Against Observations
Author(s): S.E. de Mink
26. The Eclipsing Binary System V2154 Cyg : Observations and Models
Author(s): E. Oblak (Presenter: J. Fernandes)
27. The eclipsing model for the symbiotic binary YY Her
Author(s): Rudolf Galis

III. Binary Stars as Critical Tests for studying specific phenomena

A. Binary stars as probes of our Galaxy:

1. Accelerating binaries near the Sun and far away
Author(s): V. Makarov
2. Algols contribute to the interstellar mass
Author(s): J.P. de Greve, C. de Loore, & W. van Rensbergen
3. Binary systems as tracers of the dynamical history of a stellar population
Author(s): P Kroupa
4. Candidate Common Velocity Stars from the AGK3 confirmed with Radial Velocity Measurements
Author(s): J-L Halbwachs
5. Close White Dwarf Binaries, Galactic Structure, and Gravitational Waves
Author(s): K Holley-Bockelmann
6. Eclipsing binaries in the LMC: a wealth of data for astrophysical tests
Author(s): A Derezak
7. Eclipsing binary stars in the globular cluster M71
Author(s): Y.-B. Jeon
8. Monitoring of Open Star Clusters
Author(s): A.S. Hojaev
9. Statistical Modeling and Analysis of Wide Binary Star Systems
Author(s): T.D. Oswalt
10. The Initial-to-final Mass Function of White Dwarfs in Common Proper Motion Pairs
Author(s): S. Catalan
11. The Kinematics and Morphologies of Planetary Nebulae with Close-Binary Central Stars
Author(s): D L Mitchell
12. Verification of an Eclipsing Binary Star as a Primary Distance Indicator
Author(s): JaeWoo Lee

B. Asteroseismology; Stellar Activity:

1. Active Longitudes And Flip-Flops In Binary Stars
Author(s): H. Korhonen
2. An Attempt to Find the Geometrical Effect on Pulsational Period by virtue of Oblateness in Pulsating Components of Binary Stars
Author(s): Burak Ulas
3. Discovery of four Beta Cephei stars in eclipsing binary systems
Author(s): A. Pigulski

4. EUVE J0825-16.3 and EUVE J1501-43.6: two dMe double-lined spectroscopic binaries.
Author(s): D. Montes
5. High-resolution Spectroscopy of Selected Cool Binaries
Author(s): L. Zacs
6. Hunt For Binaries With Pulsating Components
Author(s): O Latkovic
7. Only Binary Stars Can Help Us Actually See a Stellar Chromosphere
Author(s): R.E.M. Griffin
8. Orbital period variation in the chromospherically active binary FF UMa (2RE J0933+624)
Author(s): D. Montes
9. Period Analysis and Long Term Luminosity Variations of Active Close Binary ER Vul
Author(s): Davoud M.Z.Jassur
10. Photometry and Spectroscopy of Two-Pole Accretion Polar RX J1846.9+5538
Author(s): Alex Golovin
11. Rotational/Orbital Modulation of X-ray Emission from the Active Binary System CC Eridani
Author(s): R. Osten
12. Starspot activity of V711 Tau from November to December, 2005
Author(s): S. G. Gu
13. Surface imaging of late-type contact binaries : H α -emission in AE Phoenicis and YY Eridani
Author(s): C. Maceroni
14. Non-linear resonance model of hi-frequency quasiperiodic oscillations (QPO) in X-ray sources: theory vs. observation
Author(s): G. Torok, M.A. Abramowicz, Z. Stuchlik, & E. Sramkova