

## Scientific sessions

- Binaries as Tests of Stellar Evolution Models
- Extreme and Unusual Binaries
- Rapid Phases of Binary Evolution
- Emission line Binaries
- Highest to Lowest Mass Binaries

## Programme

### Sunday July 1, 2012

16:00 Registration

### Monday July 2, 2012

8:00 Registration

8:30 Opening Addresses

#### Binaries as Tests of Stellar Evolution Models

9:00 Steve Howell: The sdB star V1309 Scorpii and its relation to cataclysmics and the recurrent compact nova systems (

9:30 Linda Bildt: SW Sex phenomenon as an evolutionary stage of CVs

9:50 Markus Schöeller: HgMn stars: cornerstones to understand late B-type multiple star formation

10:00 coffee-break

10:40 eřimir Pala: Testing stellar rotational evolutionary models with a little help of the genetics (

11:10 Matthias Schreiber: Understanding low-mass stars from post common envelope binaries

11:30 I-Darone: The key role of circumbinary discs in post-AGB binaries

12:00 2:20 Kazimierz Sienkiewicz? The ultimate fate of low-mass contact binary evolution: planetary

12:20 2:40 Maja Vuckovic: Subdwarfs - the Rosetta stones for testing the stellar evolution models

#### Rapid Phases of Binary Evolution

16:30 – 16:50 Romuald Tylenda : Mergers of contact binary systems: the case of V1309 Scorpii

16:50 – 17:10 Barsukova E.A. et al.: Photometric and spectroscopic evolution of the red nova V4332 Sct

17:10 – 17:40 coffee-break

17:40 – 18:00 Nataly Katysheva: The observations of unusual WZ Sge-type system OT J184228.1+4332

18:00 – 18:20 Polina Golysheva et al.: Multicolour photometry of unusual dwarf nova star HS 0218+323

## Welcome Reception

### Tuesday, July 3, 2012

#### Extreme and Unusual Binaries

9:00 Andrei Piskarev: The power of eclipses in the era of Kepler and LSST (

9:40 Laurent Eyer: Gaia Mission (

10:00 Christophe Hummel: Binary studies with the Navy Optical Interferometer (

10:40 Valeri Orllov : Binary star speckle interferometry and speckle photometry at Telescopes of Observato

11:00 offset break

11:40 Kelly Ladd: Tidal Excitation and Heartbeat Stars

12:00 Alia Alfonso Garzon: Searching for pulsating stars in eclipsing binaries in the OMC Catalogue

12:40 Edward Guinan: Eclipsing binaries that Don't Eclipse Anymore

12:50 Miroslav Štekl, M. Zejda, J. Liska: Visual observations of eclipsing binaries: Use or not to use

16:00 – 19:00 Visit to the Observatory

### Wednesday, July 4, 2012

#### Extreme and Unusual Binaries

9:00 Edward Guinan: Demystifying the Enigmatic Long-Period Eclipsing Binary ε Aurigae (Review)

9:40 Philip Bennett: What do we really know about Epsilon Aurigae? Observational Constraints and Im

10:00 Petr Harmanec : A new look into the spectral and light variations of epsilon Aurigae

10:30 Alan Booty: Effects of dust on light-curves of eps Aur

10:50 offset break

11:20 Postersession

16:00 – 17:00 Postersession

17:00 offset break

17:30 Robert Stenczel, Edmundo Alonso: Panel Discussion on Eclipsing Binaries 2010-2011 Eclipse Campaign Results (

### Thursday, July 5, 2012

#### Extreme and Unusual Binaries

9:00 Svetlana Chernysheva: Binarity versus magnetic fields in upper main-sequence stars (

9:40 Cesilia Bonoli: Binaries in clusters and local group galaxies (

10:00 Oleg Malov: Classification of eclipsing binaries: extreme and unusual systems (

10:20 offset break

11:30 Anna Nechapova : Unusual quadruple system Xi Tau

11:50 Daniel Barría: Photometric and spectroscopic analysis of the eclipsing binary DQ Velorum

12:30 Zdeněk Baran: "2M1938+4603" - a unique system to study the reflection effect

#### Emission line Binaries

16:00 – 16:40 Bozic, Koubek, Harmanec : Hot emission-line binaries observed at Hvar (Review)

16:40 – 17:10 Philippe Stee : Be and other unusual binaries (

Invited talk

17:10 – 17:30 Anatoly Miroshnichenko: FS CMa Type Binaries with the B[e] Phenomenon: Towards 3  
17:30 – 18:00 coffee-break  
18:00 – 18:30 Ronald Mennickent : Algol-like interacting binaries with long non-orbital periodicities  
18:30 – 18:50 Vladimir Kolbas: Chemical composition of the components of Algol triple system

## Friday, July 6, 2012

### Highest to Lowest Mass Binaries

- 9:00 Michael Collier: High Energy Interactions in Massive Binaries (
- 9:30 David Inske: Spectroscopic metallicity determinations for contact binary stars (
- 10:00 Catalin Stanescu: active giants in close binary systems (
- 10:30 Zsolt Vida : The strange close binary V405 And: the influence of different dynamos on the com  
10:50 offset break
- 11:20 1:50 R. Chini: A spectroscopic survey on the multiplicity of high-mass stars
- 11:50 12:10 Matthieu; Rauw Gregor; Mahy Laurent: Spectral modelling of massive binary systems: the
- 12:10 Italy 12:30 Ganskij: Photometric evidence of a neutron star in the system of SS 433
- 12:30 12:50 Gert Palombara: X-ray observations of the compact companions of the sdO stars HD49798 a
- 19:00 Radek, J. Calogovic: 40 godina Opservatorija Hvar (in Croatian)

21:00 Wine and cheese in a Dalmatian konoba

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