

Programme of the 8th SCSLSA

Divčibare, June 06 – 10, 2011

Sunday, June 05, 2011

Arrival of participants

20:00 – 21:00 *Registration and Welcome drink*

21:00 *Dinner*

Monday, June 06, 2011

Chair: L. Č. Popović & D. Jevremović

9:00 – 9:30 *Opening ceremony*

9:30 – 10:10 Gary Ferland *The emission lines in Quasars - what they tell us*

10:10 – 10:50 Milan S. Dimitrijević *Stark broadening and white dwarfs*

10:50 – 11:20 **Coffee break**

Chair: M. S. Dimitrijević

11:20 – 12:00 Patrick Dufour *Stark Broadening of Carbon and Oxygen Lines in Hot DQ White Dwarf Stars: Recent Results and Applications*

12:00 – 12:40 Sylvie Sahal-Bréchet *Comparisons and comments on electron- and ion- impact profiles of spectral lines*

12:40 – 13:20 María Dolores Calzada *Plasma generated with gas mixtures at atmospheric pressure*

13:20 – 15:20 **Lunch**

Chair: P. Rafanelli

15:20 – 16:00 Wolfram Kollatschny *Kinematics and structure of the broad line region in AGN*

16:00 – 16:40 Martin Gaskell *New Paradigms for the Nature of the Line- and Continuum-Emitting Regions of AGNs*

16:40 – 17:10 **Coffee break**

Chair: J. Danziger

- 17:10 – 17:30 Vladimr Srećković, Ljubinko Ignjatović, Anatolij Mihajlov, Milan S. Dimitrijević
Chemi-ionization/recombination processes as factors of the influence on the spectral lines shapes in stellar atmospheres
- 17:30 – 17:50 Nikola Cvetanović
Dependence of excessively broadened H α profile on cathode material and gas pressure in a glow discharge
- 17:50 – 18:10 Derek Homeier
Spectral Synthesis as a Tool for Stellar and Galactic Astronomy - Challenges and Perspectives
- 20:30 – 21:30 John Danziger
Public talk: How SN1987A Energized Supernova Research

Tuesday, June 07, 2011

Chair: J. Sulentic

- 9:30 – 10:10 Teresa Mediavilla
Microlensing based studies of the unresolved structure of AGN
- 10:10 – 10:50 Piero Rafanelli
The Starburst - AGN connection: A critical review
- 10:50 – 11:20 **Coffee break**

Chair: W. Kollatschny

- 11:20 – 12:00 Paola Marziani
A Photoionization Method for Black Hole mass Estimation
- 12:00 – 12:40 Jack Sulentic
Broad Line Profiles of Quasars: Are There Two Quasar Populations?
- 12:40 – 13:00 Valia Lyratzi
A study of the C IV BALs in HiBALQSOs spectra
- 13:00 – 15:00 **Lunch**

Chair: P. Jovanović

- 15:00 – 15:40 Helen Flohic
Variability of double-peaked emission lines in AGNs as probe of the BLR structure
- 15:40 – 16:20 Victor Afanasiev, Alexei Moiseev
SCORPIO at the 6-m telescope: current state and perspectives for spectroscopy of galactic and extra-galactic objects
- 16:20 – 17:00 Petr Skoda
Optical Spectroscopy with the Technology of Virtual Observatory

17:00 – 17:30 **Coffee break**

Chair: G. Peach

17:30 – 18:10 Friedrich Kupka *VAMDC as a resource for Atomic and Molecular Data and the new release of VALD*

18:10 – 18:50 Roland Stamm *Stochastic processes applied to line shape calculations*

Wednesday, June 08, 2011

9:00 *Excursion*

Thursday, June 09, 2011

Chair: S. Sahal-Bréchet

9:30 – 10:10 Gillian Peach *Recent results for widths of lines important in the spectra of cool stars*

10:10 – 10:50 Igor Iosilevskiy *Plasma Polarization in Massive Astrophysical Objects*

10:50 – 11:20 **Coffee break**

Chair: M. Gaskell

11:20 – 12:00 Maarten Baes, Christine Wilson, Suzanne Madden, and the SAG-2 consortium *The first FIR/submm spectroscopic results from the Herschel Space Observatory*

12:00 – 12:20 Jacopo Fritz *Equivalent width measurements in optical spectra of local cluster galaxies: hints on the star formation history in clusters*

12:20 – 12:40 Ivan Katkov *A complex stellar line-of-sight velocity distribution in NGC 524*

12:40 – 13:00 Giovanni La Mura *Optical emission lines and the X-ray properties of Type 1 Seyfert galaxies*

13:00 – 15:00 **Lunch**

Chair: A. F. Zakharov

15:00 – 15:20 Robert Loughnane *Observations of HCN hyperfine line anomalies towards low and high mass star-forming cores*

- 15:20 – 15:40 Antonis Antoniou *A statistical study of the UV Si IV resonance lines' parameters in 20 Be stars*
- 15:40 – 16:00 Rafik Hamdi, Nebil Ben Nessib, Milan S. Dimitrijević, Sylvie Sahal-Bréchet
Ab initio determination of atomic structure and Stark broadening parameters: Pb IV and recent results
- 16:00 – 16:20 Rocio Rincón, María Dolores Calzada
Plasma Technology as a new Preservation Technique
- 16:20 – 16:50 **Coffee break**
- Chair: M. Dolores Calzada*
- 16:50 – 18:30 Poster presentations
- 20:00 *Conference Dinner*

Friday, June 10, 2011

Special workshop **“Black Holes and Spectral Lines”** in the frame of COST action MP0905 “Black Holes in an Violent Universe”

- 10:00 – 10:30 Silke Brintzen *Black Holes in an Violent Universe, COST action*
- 10:30 – 11:00 Predrag Jovanović *The Fe K alpha Line and supermassive black holes*
- 11:30 – 12:00 Alexander Zakharov *Shadows as a tool to evaluate black hole parameters and a dimension of spacetime*
- 12:00 – 12:30 Jack Sulentic *Estimation of supermassive black hole masses using UV/optical emission lines – a critical overview*
- 12:30 – 13:00 Luka Č. Popović *Shape of emission lines and detection of binary black holes*
- 13:00 – 13:10 *Closing of the conference and workshop*
- 13:10 – 15:00 **Lunch**
- 15:00 *Departure to Belgrade*