

**PROGRAM OF THE 5th SCSLSA
(Vršac: June 06 - 10, 2005.)**

Monday, 06. 06. 2005.

9:00-12:00 *Transportation (from Belgrade to Vršac by bus) and accommodation of participants.*

12:00-12:30 Opening Ceremony

Chairman: M.S. Dimitrijević

12:30-13:00 John Danziger: "The role of line profiles in analyzing spectra of supernovae"

13:00-13:30 Zoran Petrović: "Anomalous Doppler broadening of hydrogen lines due to excitation by fast neutrals in low pressure Townsend discharges"

13:30-15:30 *Lunch*

Chairman: Z. Petrović

15:30-16:00 Albert Ellingboe: "Whistler wave - particle interaction in a temperate ionosphere-like plasma"

16:00-16:30 Nebil Ben Nessib: "Interaction Potentials for Spectral Line Shapes in Plasma"

16:30-16:45 Zoran Simić: "Influence of impacts with charged particles on Cd I and F III spectral lines in stellar plasma"

16:45-17:00 Walid Foued Mahmoudi: "Semi-Classical and Modified Semi-Empirical Impact Stark Broadening Calculations of Singly-Ionized Carbon and Oxygen Spectral Lines"

17:00-17:15 Vladimir Milosavljević: "Measured Stark Shifts of Kr I Line Profiles in the 5s-5p and 5s-5p' Transitions"

17:15-17:30 Sergey Kharintsev: "Fractional oscillator and anomalous Brownian motion in the theory of spectral line broadening and shift"

17:30-18:00 *Coffee break*

Chairwoman: D. Calzada-Canalejo

18:00-18:15 Magdalena Christova: "Stark broadening of Ar I spectral lines emitted in surface-wave sustained discharges"

18:15-18:30 Haykel Elabidi: "Electron impact broadening of multicharged neon spectral lines"

18:30-18:45 Bratislav M. Obradović: "The external magnetic field influence on the hydrogen Balmer profiles in electric discharges"

18:45-19:00 Nenad Milovanović: "The Stark Broadening Effect in Hot Star Atmospheres: Tl II"

19:00-20:30 Welcome cocktail

Tuesday, 07. 06. 2005.

Chairman: E. Barron

- 9:00-9:30 France Allard: "The Importance of Alkali Line Broadening in Brown Dwarf Atmospheres"
- 9:30-10:00 Gillian Peach: "Line Shapes for the Spectra of Brown Dwarfs"
- 10:00-10:30 Emanuil Danezis: "A new modeling approach for DACs and SACs regions in the atmospheres of hot emission stars"
- 10:30-11:00 Denis Shulyak: "Atmospheres of CP stars: magnetic field effects"
- 11:00-11:30 *Coffee break*

Chairman: A.F. Zakharov

- 11:30-12:00 Andrei Lobanov: "Radio Spectroscopy of Active Galactic Nuclei"
- 12:00-12:30 Stefano Ciroi: "The Hidden Nature of Narrow-Line Seyfert 1 Galaxies"
- 12:30-12:45 Dragana Ilić: "Kinematics of the BLR and NLR in AGN Mrk 817"
- 12:45-13:00 Alexey Moiseev: "Scanning Fabry-Perot interferometer in the extragalactic researches"
- 13:00-13:15 Edi Bon: "Kinematics and Variability of III Zw 2 broad line emission region"
- 13:15-13:30 Srdjan Samurović: "Detection of Dark Matter in Early-type Galaxies with X-ray Halos using Absorption Spectral Lines"
- 13:30-15:30 *Lunch*

Chairman: L. Wisotzki

- 15:30-16:00 Alexander F. Zakharov: "Black Holes: Theory versus observations - Analysis of the Fe K_{α} Lines and Precise Astrometrical Observations"
- 16:00-16:30 Evencio Mediavilla, Cristina Abajas: "Influence of Gravitational Microlensing on the Shapes of the QSO Emission Lines"
- 16:30-16:45 Predrag Jovanović: "Microlensing effect on Fe K_{α} line and X-ray continuum in the case of three gravitationally lensed quasars: MG J0414+0534, QSO 2237+0305 and H1413+117"
- 16:45-17:00 Eleni Chatzichristou: "Multi-Wavelength Surveys of Obscured AGN"
- 17:00-17:30 *Coffee break*

Chairman: M. Roth

- 17:30-18:00 Lutz Wisotzki: "Quasar Absorption Lines and the Intergalactic Medium"
- 18:00-18:15 Marko Krčo: "HINSA as a tool for studying dark clouds and star formation"

18:15-19:30 Poster presentation (5 min per poster)

Chairman: N. Ben Nessib

A. Vorobyev: "Analytical curves reduction by using fractional derivative spectrometry"

B. Zmerli: "Temperature dependence of non hydrogenic atom-lines Stark widths"

C. García: "Gas temperature from line broadening in a neon microwave plasma at atmospheric pressure"

C. Yubero: "Computer-simulated Balmer alpha line profile for calculating the electron number density"

M. S. Dimitrijević: "On the influence of Stark broadening of Cr I lines in the Cr-rich Ap star β CrB atmospheres"

M. Christova: "Calculations of the collisional neutral line widths of several Ar I lines"

M. C. García: "Voigt damping parameter of the spectral lines emitted by a plasma flame and a plasma column generated by microwave at atmospheric pressure"

M. C. García: "Self-absorption effects in the equivalent width of the spectral lines in a neon microwave plasma at atmospheric pressure"

R. Hamdi: "Electric dipole transition probabilities in Al IV and Al V ions"

D. Korcakova: "Emergent line profiles from rapidly rotating stars"

A. Dorodnitsyn: "Line-driven winds near BHs"

F. Di Mille: "Spectrophotometric study of nearby Seyfert nuclei"

A. Smirnova: "Studying of some Seyfert galaxies by the methods of panoramic spectroscopy"

A. Lalović: "The reduction of eclipsing binary stars spectra observed at Rožen Observatory"

N. Gavrilović: "Investigation of rotational velocity of epsilon Persei"

B. Arbutina: "A study of close binary system EE Cet"

Z. Simic: "On the Stark broadening parameters for Cu III and Zn III lines in A type star atmospheres"

Wednesday, 08.06.2005.

Chairman: J. Purić

10:00-10:30 Valiants M. Astashynski: "Spectroscopic study of plasma flows created by a magnetoplasma compressor"

10:30-11:00 Dolores Calzada-Canalejo: "Spectroscopy of the discharges created and maintained by a surface-wave"

11:00-11:30 Coffee break

Chairman: J. Danzinger

11:30-12:00 Martin Roth: "3D spectroscopy of emission line spectra of Planetary Nebulae: diagnostic tools from the Milky Way to nearby galaxies and beyond"

12:00-12:30 Eddie Baron: "Overview of supernova modeling with Phoenix"

12:30-14:00 *Lunch*

14:00-19:00 *Visiting orthodox and catholic churches in Vršac, monastery Mesić, Vršac's Tower (at the top of Vršac's mountains)*

20:00-23:00 *Visiting the wine cellar in the village Gudurica with testing local wines. Conference dinner.*

Thursday, 09.06.2005

Chairwoman: G. Peach

11:00-11:30 Peter Hauschildt: "Effects of line profiles in T dwarfs"

11:30-12:00 Mikhail Sachkov: "Pulsations in the Atmospheres of Ap stars"

12:00-12:15 Olga Atanacković-Vukmanović: "Solution of NLTE line transfer problem by use of a forth-and-back implicit Λ iteration"

12:15-12:30 Milan Zboril: "Helium line shape analysis in B type stars"

12:30-13:45 Darko Jevremović: " ${}^6\text{Li}$ in the quiescent atmospheres of active cool stars"

13:45-15:30 *Lunch*

Chairman: P. Hauschild

15:30-16:00 Milan S. Dimitrijević: "Processes of atom-atom ($n - n'$) - mixing influence on hydrogen atom Rydberg states populations in stellar atmospheres"

16:00-16:30 Evangelina Lyratzi: "A new approach for the structure of $\text{H}\alpha$ regions in 120 Be stars"

16:30-16:45 Nikola Vitas: "Heights of formation of Mn I spectral lines broadened by hyperfine structure"

16:45-17:00 Derek Homeier: "Molecular Line Widths at Stellar Atmosphere Conditions"

17:00-17:30 *Coffee break*

Chairman: E. Danezis

17:30-18:00 Slobodan Ninković: "Globular Clusters of the Milky Way: Their fate and chemical composition"

18:00-18:15 Nenad Sakan: "The application of the cut-off Coulomb potential for the calculation of a continuous spectra of dense hydrogen plasma"

Chairmans: M. S. Dimitrijević, L. Č. Popović

18:15-19:00 Discussion about conference, next SCSLSA, all participants are invited to take part.

Friday, 10. 06. 2005.

Excursion: Smederevo Fortress (1420), monastery Manasia (1407), Resava cave, waterfall Lisine

Back to Belgrade around 21:00