

**IV SERBIAN CONFERENCE ON SPECTRAL LINE SHAPES**  
**ARANĐELOVAC, SERBIA, 10 - 15 OCTOBER 2003**

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**PROGRAM OF THE CONFERENCE**

10.10.2003, Friday

10:00-18:00	Registration (Hotel "Izvor")
17:00-18:00	Official opening of the conference
18:00-19:00	Presentation of books and journals published from the last conference
19:00	Cocktail

11.10.2003, Saturday

Chairman: Milan S. Dimitrijević

9:00-9:45	Tanya Ryabchikova IMPORTANCE OF STARK DAMPING IN THE STUDY OF ABUNDANCE STRATIFICATION IN Ap STARS
9:45-10:30	E. Lyrtzi THE COMPLEX STRUCTURE OF THE Mg II REGIONS OF 40 BeV STARS
10:30-11:00	Coffee break

Chairman: Tanya Ryabchikova

11:00-11:45	Darko Jevremović PHOENIX - THE WAY FORWARD IN MODELLING OF STELLAR ATMOSPHERES
11:45-12:30	Ljubinko Ignjatović, Anatolij A. Mihajlov THE INFLUENCE OF SOME NON-SYMMETRIC ION-ATOM RADIATIVE COLLISIONS TO THE OPACITY OF STAR ATMOSPHERES
12:30-15:00	Lunch break

Chairman: M. K. Salakhov

15:00-15:45	Mara Šćepanović, Jagoš Purić STARK WIDTH AND SHIFT DEPENDENCE ON THE REST CORE CHARGE OF THE EMITTERS FOR MULTIPLY CHARGED IONS SPECTRAL LINES
15:45-16:30	Vladimir Milosavljević ELECTRON AND ION CONTRIBUTIONS TO THE STARK BROADENING IN THE He I SPECTRUM

16:30-17:00 Coffee break

17:30-19:00 Posters

### 12.10.2003, Sunday

Chairman: Luka Č. Popović

10:00-10:45 A.F. Zakharov  
THE IRON  $K\alpha$ -LINE AS A TOOL FOR ANALYSIS OF  
BLACK HOLE CHARACTERISTICS

10:45-11:30 I.J. Danziger  
EMISSION AND ABSORPTION LINE PROFILES FROM  
SUPERNOVA ENVELOPES

11:30-12:00 Coffee break

Chairman: I.J. Danziger

12:00-12:45 Srdjan Samurović  
EARLY-TYPE GALAXIES: FROM SPECTRA TO DYNAMICAL  
ANALYSIS

12:45-15:00 Lunch break

15:00 Excursion

### 13.10.2003, Monday

Chairman: A.F. Zakharov

10:00-10:45 Milan Maksimović  
NON-THERMAL VELOCITY DISTRIBUTION FUNCTIONS IN  
THE INTERPLANETARY MEDIUM: ON THEIR ORIGIN AND  
CONSEQUENCES FOR THE SOLAR WIND ACCELERATION

10:45-11:30 S. Ninković  
ON THE CHEMICAL COMPOSITION OF THE MILKY-WAY  
OBJECTS

11:30-12:00 Coffee break

Chairman: Nicholas Spyrou

12:30-13:15 Anatolij Mihajlov, Nenad Sakan  
MODELLING OF THE OPTICAL SPECTRUM OF ABSORPTION  
FOR THE NON IDEAL HYDROGEN OR QUASI-HYDROGEN  
PLASMA WITHIN CUT-OFF COULOMB POTENTIAL  
APPROXIMATION

- 13:15-15:30 Lunch break
- 15:30-17:30 A short excursion
- 18:30-19:30 Round table on the collaboration within Serbia and Montenegro and on the organization of the next conference. Election of the new Scientific Organizing Committee.
- 20:00 Conference dinner

#### 14.10.2003, Tuesday

Chairman: Jagoš Purić

- 10:30-11:15 Nicholas Spyrou  
GRAVITATION AND THERMODYNAMICS INTERPLAY,  
AND PERFECT-FLUID IMPLICATIONS
- 11:15-12:00 Srdjan Bukvić  
AN ALTERNATIVE APPROACH TO DATA PROCESSING

12:00-12:30 Coffee break

Chairman Nebil Ben Nessib

- 12:30-13:15 Jagoš Purić  
DIAGNOSTICS OF MAGNETOPLASMA COMPRESSOR OF  
COMPACT GEOMETRY

13:15-16:00 Lunch break

Chairman: Anatolij A. Mihajlov

- 16:00-16:45 Nebil ben Nessib  
LINE BROADENING RESEARCH IN TUNISIA: HISTORY,  
PRESENT STATE AND INTERNATIONAL COLLABORATION
- 16:45-17:30 Goran Poparić  
DETERMINATION OF PLASMA PARAMETERS FROM  
SHAPES OF ATOMIC SPECTRAL LINES

17:30-18:00 Coffee break

18:00-19:30 Posters

#### 15.10.2003, Wednesday

10:00-11:00 Round table about international cooperation

11:00-11:30 Closing of the conference