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12th Serbian Conference on Spectral Line Shapes in Astrophysics

FIRST ANNOUNCEMENT

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Dear colleagues,

The Organizing Committee is pleased to inform you that "12th Serbian Conference on Spectral Line Shapes in Astrophysics" will be held in the town of Vrdnik, Serbia, in the period 03-07 June, 2019.

The official conference website (<http://servo.aob.rs/scslsa12/> or mirror site <http://www.scslsa.matf.bg.ac.rs>) will be used for all conference activities including registration, accommodation, paper submission, and review process.

SCIENTIFIC RATIONALE

The spectral lines, their widths, and, more generally, the shapes, are powerful tools for emitting/absorbing gas diagnostics in different astrophysical objects, (from the Solar system to the most distant objects in the Universe - quasars.

The emission/absorption lines of astrophysical objects are produced over a wide range of distances from an observer and under a wide range of physical and kinematic conditions. Therefore, in astrophysical objects the lines from X-ray (e.g. Fe K $\alpha$ ) to the radio (e.g., the radio recombination lines) wavelength range have been observed. On the other hand, the experimental and theoretical investigations of laboratory plasma have been used in spectroscopic astrophysical research; in particular, the same atomic data are needed for line-shape calculations. This conference will bring together astronomers (observers and theoreticians) and physicists from Serbia and elsewhere to review the present stage of research, with the aim of improving our knowledge in this field, and to better understand the significance of emission/absorption lines for future astrophysical investigations.

The program will focus on:

- Stellar and interstellar spectral lines
- Spectral line phenomena in extragalactic objects
- Spectral lines in laboratory and general plasma

This is the 12th conference in the series. The official website of the conference is:

<http://servo.aob.rs/scslsa12/> or <http://www.scslsa.matf.bg.ac.rs>.

All materials (programme, talks, presentations, photos, etc.) from the previous meetings are available at

<http://servo.aob.rs/eeditions/SCSLSA.php> through Serbian Virtual Observatory (<http://servo.aob.rs>).

The 5SLSP (Spectral Line Shapes in Plasmas) code comparison workshop will be held in the same venue place, before 12th SCSLSA Conference. More information available on the workshop website <http://plasma-gate.weizmann.ac.il/slsp/slsp5>

#### IMPORTANT DATES

Registration deadline: February 28, 2019  
Deadline for reduced registration fees: February 28, 2019  
Deadline for abstract submission (one page): February 28, 2019  
Second Announcement: April 1, 2019  
Final Announcement: May 15, 2019  
Paper submission: June 15, 2019

#### CONTACTS

Andjelka Kovacevic - [andjelka@matf.bg.ac.rs](mailto:andjelka@matf.bg.ac.rs)  
Dragana Ilic - [dilic@matf.bg.ac.rs](mailto:dilic@matf.bg.ac.rs)

#### REGISTRATION AND CONFERENCE FEES

The registration of participants is opened and will be possible until February 28, 2019 (which is also deadline for reduced registration fees). In order to register please fill in the form at the following link (also given at conference website):  
<https://docs.google.com/forms/d/e/1FAIpQLSfsGWO2G05YsIcN-HwS3SzAtHJXvKlrWlaMWGJcBCEIycrw/viewform>

The conference fees will be 200 EUR for students (150 EUR before February 28, 2019) and 300 EUR for researchers (250 EUR before February 28, 2019). Abstracts (one page) of contributions should be sent until February 28, 2019. A template for preparation of abstracts is available on the conference website.

#### PROCEEDINGS

The Proceedings will be published after the conference. The deadline for sending your contributions is June 15, 2019. Instructions for preparing your contribution will be given later at the conference website. The journal is yet to be determined.

#### LOCATION AND VENUE

12th SCSLSA will be held in the town of Vrdnik (see for more details <https://en.wikipedia.org/wiki/Vrdnik>), located in the northern part of Serbia, on the southern slopes of Fruška Gora, at the border of the national park. The conference venue will be Hotel Premier Aqua (<https://www.hotelpremieraqua.com/en/index.html>).

We have arranged special rates for the conference participants in Hotel Premier Aqua (more details on conference website). In addition, there are other accommodation available, both private guesthouses and hotels (accessible through usual accommodation search engines like Booking).

#### SCIENTIFIC ORGANIZING COMMITTEE

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#### WEBSITE

The official conference website <http://servo.aob.rs/scslsa12/> or mirror site <http://www.scslsa.matf.bg.ac.rs>.