FIRST ANNOUNCEMENT

Dear colleagues,

The Organizing Committee is pleased to inform you that "IV Meeting and project work on Active Galactic Nuclei & Gravitational Lensing" will be held in spa Banja Ždrelo, Serbia, in the period, 12-15 November 2019.

The official conference website (http://servo.aob.rs/AGN_GL/) will be used for all conference activities including information, registration, and accommodation.

SCIENTIFIC RATIONALE

Investigation of nature of the emitting ionized gas in active galactic nuclei (AGN) is one of important subjects in astrophysics today. Firstly, investigating the processes in the central region of these objects, we can learn about the innermost regions of other 'normal' galaxies. Secondly, AGN are the most powerful sources, located at different cosmological time-scales, and their investigation is cosmologically important. Finally, a part of emission from these objects (e.g. in the X-rays) has its origin very close to a supermassive black hole, and investigation of this emission can help us understand the physical processes in a strong gravitational field.

On the other side, a number of AGN are affected by gravitational lensing effect. Gravitational lensing is in general achromatic: the deflection angle of a light ray does not depend on its wavelength. However, the wavelength-dependent geometry of the various emission regions may result in a chromatic effect. Studies aimed at determining the influence of microlensing on spectra of lensed quasars (hereafter QSOs) ought to account for the complex structure of the QSO central emitting region. Since the sizes of the QSO emitting regions are wavelength-dependent, microlensing by stars in a lens galaxy will lead to a wavelength-dependent magnification.

The format of the meeting:

The Meeting is planned to have seven review lectures, devoted to the special topics on spectroscopy of AGN and gravitational lenses. Following the lectures, participants will work on the special mini-projects, which
will be happening during the whole day. The aim of the workshop is to publish the mini projects results in international scientific journals.

Proposal of mini-projects (100 words) should be sent until September 15, 2019. We propose to have following subjects of mini-projects:

**MP1:** Physics of the AGN emitting regions

**MP2:** Strong gravitation and center of AGNs

**MP3:** AGNs and super-massive binary black hole systems: Spectral Energy Distribution (SED) and microlensing effect

**MP4:** Databases for investigation of the physics of AGNs

**MP5:** SDSS and LSST in AGN and GL (Gravitational Lensing) investigations

**MP6:** Long-term spectral and polarimetric variability of AGNs

**MP7:** Polarization of the AGN spectra and gravitational lenses

We encourage participants to propose new projects, as well as to propose a review talk.

**IMPORTANT DATES**

Registration deadline: September 15, 2019
Deadline for mini-project submission (100 words): September 15, 2019
Second Announcement: October 1, 2019
Final Announcement: October 15, 2019

**CONTACTS**

Saša Simić – sasa.simic@pmf.kg.ac.rs
Luka Č. Popović – lpopovic@aob.rs

**REGISTRATION AND CONFERENCE FEES**

The registration of participants is opened and will be possible until September 15, 2019. In order to register please fill in the form at the following link (also given at conference website):

http://servo.aob.rs/AGN_GL/registration4.html

The conference fees: 100 EUR for students and 200 EUR for researchers.

**LOCATION AND VENUE**

IV Meeting and project work on Active Galactic Nuclei & Gravitational Lensing is located in the eastern part of Serbia in beautiful spa Banja
Ždrelo, close to the Petrovac city. The conference venue will be Hotel Ždrelo (https://www.ruczdrelo.rs).

We have arranged special rates for the conference participants in Hotel Ždrelo (more details on conference website).

SCIENTIFIC ORGANIZING COMMITTEE

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WEBSITE

The official conference website http://servo.aob.rs/AGN_GL/.