



VI conference on Active Galactic Nuclei & Gravitational Lensing

2-6 June 2024, Zlatibor Mt., Serbia

FIRST ANNOUNCEMENT

Dear colleagues,

The Organizing Committee is pleased to inform you that "VI Conference on Active Galactic Nuclei & Gravitational Lensing" will be held on Zlatibor Mt., Serbia, in the period, 2-6 June 2024.

Zlatibor Mt. is located in the western part of Serbia and is a part of the Dinaric Alps mountain range. Situated at an altitude of just over 1,000 meters, Zlatibor Mt. is a climatic resort, characterized by a cool mountain climate, clean air, long periods of sunshine during the summer and a heavy snow cover in winter. Tourist facilities include modern hotels, holiday centers and cottages, sports and skiing grounds, with many other recreation options like horseback riding, hiking, cycling, sightseeing etc. With great food and welcoming hospitality, Zlatibor Mt. is one of the most popular tourist destinations all year round. Zlatibor Mt. is about 230 km away from Belgrade.

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 the 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 research 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.

Analysis of the AGN spectra, the shapes of the broad and narrow emission lines and their relative intensities, give us an insight in complex structure, kinematics and physics of the AGN emission regions, as well as in numerous atomic processes in the line emission gas. Collisional processes could be significant in some parts of the AGN broad line emission region where many atoms are in excited states, because of the high electron density and large optical depth. Moreover, it is demonstrated that the increasing of turbulence cause the grow of the number of continuum photons

that can be absorbed, which increases the population of excited particles, as well as the importance of collisional processes since such particles may undergo a collisional transition.

On the other hand, 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.

FORMAT OF THE CONFERENCE

The Conference is planned to have several review lectures, devoted to the special topics on AGNs and gravitational lenses. Additionally, participants will work on the special mini-projects. One of the aims of the meeting is to work on mini projects in order to start collaboration between two or more groups.

If you would like to participate in a mini project and/or to propose a new mini project, please fill in appropriate fields in the registration form. Proposals of mini-projects (100 words) should be sent until April 05, 2024. We propose to have following subjects of mini-projects:

MP1: Physics of the AGN emitting regions

MP2: Atomic & molecular processes and databases for investigation of physics of AGNs

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

MP4: Role of LSST in AGN and GL investigations

MP5: Long-term spectral variability of AGNs

MP6: Polarization of AGNs and GL

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

IMPORTANT DATES

Registration deadline: April 05, 2024

Abstract submission deadline: April 05, 2024

Deadline for mini-project submission (100 words): April 05, 2024

Conference fee payment deadline: April 15, 2024

Deadline for booking hotel room: April 15, 2024

Second Announcement: April 1, 2024

Final Announcement: May 15, 2024

CONTACTS

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REGISTRATION AND CONFERENCE FEES

The registration of participants and abstract submission is open and will be possible until April 05, 2024. In order to register, please fill the form given in conference website http://servo.aob.rs/AGN_GL/, and send it on e-mail: VI.AGN.conf@gmail.com.

The proposal of the new mini-projects (100 words for each) is included in registration form.

If participant want to propose the review talk, please write the abstract in tex template given in conference website (http://servo.aob.rs/AGN_GL/) and sent it on e-mail: VI.AGN.conf@gmail.com.

The conference fees: 150 EUR for students and 250 EUR for researchers, which includes welcome cocktail, coffee breaks, conference dinner, conference materials and excursion. After you send the registration form, the official technical organizer of the conference, **Pana Comp Agency**, will send you an e-mail with details about the payment instruction.

ACCOMMODATION

The conference will held in hotel Olimp (<https://www.hotelolimp.com/>), at Zlatibor mountain. For participants of this conference, we arranged special prices of accommodation. The price for a single room (breakfast+lunch) is 7445.00 RSD (64 EUR) and the price for a double room per person (breakfast+lunch) is 6095.00 RSD (52 EUR). To make a reservation, please send an email to the hotel at hotelolimp@mts.rs with title "VI conference on AGN & GL", and emphasize in email text that you are participant of "VI conference on Active Galactic Nuclei & Gravitational Lensing", **that will be held 2-6 June**. Deadline to book rooms in the hotel Olimp is April 15, 2024. Hotel accommodations for the conference are limited, so it is recommended to make your reservation early.

SCIENTIFIC ORGANIZING COMMITTEE

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