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V conference on Active Galactic Nuclei &
Gravitational Lensing
Topola, Serbia
13-17 June 2022

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FIRST ANNOUNCEMENT

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Dear colleagues,

The Organizing Committee is pleased to inform you that "V Conference on Active Galactic Nuclei & Gravitational Lensing" will be held in Topola, Serbia, in the period, 13-17 June 2022.

Topola is in the heart of Šumadija, located on the hill Oplenac, rich in the exceptional history and tradition of our country. The hotel, as well as the town in which it is located, are about 80 km away from Belgrade, and 40 km from Kragujevac. Topola is a very important place in the history of Serbia with an excellent tradition in making vines and food.

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 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.

IMPORTANT INFORMATION

During these uncertain and unprecedented times caused by the corona virus, it is hard to plan attendance of conferences. However, we hope that the situation will be significantly better in June 2022. In any case, we intend to organize a blended conference, with on-line and in-person presentations. On-line format of attendance is assumed for those who can not participate in-person. The Organizing committee will monitor the situation with the COVID19 pandemic and in the case of a serious situation, the format of the conference will be switched to fully on-line.

THE FORMAT OF THE CONFERENCE:

The Conference is planned to have seven review lectures, devoted to the special topics on AGN and gravitational lenses. Especially, during this conference we will have one day meeting devoted to the role of LSST in AGN and GL investigations and regional collaboration in in-kind contribution to the LSST project. 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

(https://docs.google.com/forms/d/1gfFjECaUrFMBqvEPNu2FtBChwBl6V_A7iX50PvEDHo8/edit). Proposals of mini-projects (100 words) should be sent until April 15, 2022. We propose to have following subjects of mini-projects:

- MP1:** Physics of the AGN emitting regions
- MP2:** AGNs and super-massive binary black hole systems: Spectral Energy Distribution (SED) and microlensing effect
- MP3:** Role of LSST in AGN and GL investigations
- MP4:** Long-term spectral variability of AGNs
- MP5:** 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 15, 2022
Deadline for mini-project submission (100 words): April 15, 2022
Deadline for booking hotel room: April 30, 2022
Second Announcement: April 30, 2022
Final Announcement: June 1, 2022

CONTACTS

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REGISTRATION AND CONFERENCE FEES

The registration of participants is open and will be possible until April 15, 2022. 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/1FAIpQLScL6130JeYodD2YsoE-kVsw8aKwCU6oOMxj-5IepUX9GTqlUg/viewform>

The conference fees: 100 EUR for students and 250 EUR for researchers, which includes welcome cocktail, coffee breaks, conference dinner, conference materials and excursion with degustation of vines from local winery.

SCIENTIFIC ORGANIZING COMMITTEE

Co-Chairs:

Luka Č. Popović (Astronomical Observatory Belgrade, Serbia)

Saša Simić (Faculty of Science, University of Kragujevac, Serbia)

Members:

Milan S. Dimitrijević (Astronomical Observatory, Belgrade, Serbia)

Dragana Ilić (Faculty of Mathematics, University of Belgrade, Serbia)

Wolfram Kollatschny (Institute for Astrophysics, University of Goettingen, Germany)

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Paola Marziani, (INAF - Osservatorio Astronomico di Padova, Padova, Italia)

Evencio Mediavilla (Instituto de Astrofísica de Canarias, Spain)

Elena Shablovinskya (Special Astrophysical Observatory, Russia)

Vladimir Srećković (Institute of physics, Zemun, Serbia)

Marko Stalevski (Astronomical Observatory, Belgrade, Serbia)

Jian-Min Wang, (Key Laboratory for Particle Astrophysics, Institute of High Energy Physics, China)

Alexander Zakharov (Institute for Theoretical and Experimental Physics, Moscow, Russia)

LOCAL ORGANIZING COMMITTEE

Chair:

Saša Simić (Faculty of Sciences, Department of Physics, University of Kragujevac)

Dragana Ilić (Faculty of Mathematics, Belgrade, Serbia)

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