

26.03.2024

## Second Circular



# International Symposium on Nuclear Science – ISNS-24

<https://indico.cern.ch/event/1339442/overview>



Dear Colleagues and Friends,

The International Symposium on Nuclear Science (ISNS-24) will be hosted in the historically rich and vibrant city of Sofia, Bulgaria, from the 9<sup>th</sup> to the 13<sup>th</sup> of September 2024. This event is, co-organized by Sofia University, the Horia Hulubei National Institute for R&D in Physics and Nuclear Engineering, and the Bulgarian Nuclear Regulatory Agency (BNRA). We are looking forward to five days of engaging discussions, ground-breaking research presentations, and valuable networking opportunities.

### **Symposium Aims and Topics:**

ISNS-24 is convened to discuss forefront research in the areas of nuclear photonics, the structure of exotic nuclei, nuclear moments and transition probabilities, high angular momentum nuclear structure, nuclear astrophysics, and advanced instrumentation for nuclear research. The symposium will also honour the remarkable career of Prof. Dimiter L. Balabanski.

### **Topics:**

- Exotic nuclei
- Nuclear photonics
- Nuclear moments
- Exotic decay and excitations
- Nuclear astrophysics
- Nuclear physics applications



The scientific program of the symposium will comprise of key-note lectures, invited talks and contributing talks. The key-note lectures will be given by:

- **Bertram Blank** (LP2iB, France) on Weak Interactions in Nuclear Physics
- **Klaus Blaum** (MPI for Nuclear Physics, Germany) on High-Precision Mass Measurements
- **Norbert Pietralla** (IKP, TU Darmstadt, Germany) on Nuclear Photonics
- **Paddy Regan** (Univ. of Surrey, UK) on Precision Measurements in Nuclear Applications
- **Hiroyoshi Sakurai** (RIKEN Nishina Center, Japan) on Exotic Nuclei Studies
- **Andrew Stuchbery** (ANU, Australia) on Nuclear Moments and Transition Probabilities
- **Aurora Tumino** (LNS, Italy) on Advances in Nuclear Astrophysics

### Invited speakers

**Navin Alahari** (GANIL)

**Ani Aprahamian** (University of Notre Dame)

**Ismail Boztosun\*** (Akdeniz University)

**Franco Camera\*** (University of Milan)

**Sotirios Charisopoulos\*** (IAEA)

**Mikolaj Cwiok** (University of Warsaw)

**Timo Dickel** (GSI)

**Luis Mario Fraile** (University of Complutense)

**Liam Gaffney** (University of Liverpool)

**Moshe Gai** (University of Connecticut)

**Danilo Gambacurta** (INFN-LNS)

**Georgi Georgiev** (IJCLab)

**Juergen Gerl** (GSI)

**Andrea Gottardo** (LNL)

**Fairouz Hammache** (IJCLab)

**Jan Jolie** (IKP, University of Cologne)

**Anu Kankainen** (University of Jyväskylä)

**Tzany Kokalova Wheldon** (Univ. of Birmingham)

**Filip Kondev** (ANL)

**Attila Krasznahorkay\*** (MTA ATOMKI)

**Silvia Lenzi** (University of Padova)

**Wen Luo** (University of South China)

**Adam Maj** (IFJ)

**Nicolae Marginean** (IFIN-HH)

**Catalin Matei** (ELI-NP/IFIN-HH)

**Nikolay Minkov** (INRNE, BAS)

**Gerda Neyens** (KU Leuven)

**Yifei Niu** (University of Lanzhou)

**Tetsuya Ohnishi** (RIKEN)

**Rudrajyoti Palit** (TIFR)

**Mihai Straticiuc** (IFIN-HH)

**Atsushi Tamii** (University of Osaka)

**Anton Tonchev\*** (LLNL)

**Hideki Ueno\*** (RIKEN)

**Calin A. Ur** (ELI-NP/IFIN-HH)

\*to be confirmed

Approximately 40 key-note and invited presentation on the above topics are planned. These will be followed by shorter contributions selected from submitted abstracts. A poster session will also be organized. The updated list of key-note and invited speakers can be found on the event website: <https://indico.cern.ch/event/1339442/>.

### Call for Abstracts

We invite you to submit abstracts in electronic form on the conference website (<https://indico.cern.ch/event/1339442/abstracts/>). Oral and poster presentations will be selected based on the submitted abstracts. The deadline for abstract submission is May 15<sup>th</sup>, 2024. Authors will be notified about the acceptance of their contributions by June 15<sup>th</sup> 2024. Please note that the first time that you use the INDICO system you must follow the instructions to create your own INDICO account.



## **Proceedings**

Conference contributions will be published as regular articles in a focused issue of Physica Scripta. Submitted manuscripts should be complete and comprehensive articles related to the conference topics. These manuscripts will undergo the journal's standard peer-review process before publication.

## **Conference venue and travel**

The symposium will be held at “Astoria Grand Hotel” (<https://www.astoriagrandhotel.bg/>). The hotel offers panoramic views of Sofia and Mount Vitosha, and enjoys a central location close to the National Palace of Culture and the commercial area of the city. From the highest floor you have great views of the illuminated Bulgarian capital.

Free Wi-Fi is available in the rooms and public areas. Astoria Grand Hotel facilities include the main restaurant and a comfortable lobby bar. The varied breakfast includes vegan and vegetarian options and freshly brewed coffee, tea, and juice.

Sofia Airport is 13 km away, while the central railway station is only 3 km from the hotel.

**Address:** Sofia Center, boulevard "General Eduard I. Totleben" 8, 1606 Sofia

**Arrival by plane:** The conference venue can be reached by public transport (<https://www.sofiatraffic.bg/en/>) from Terminal 2 of Sofia Airport (ticket price 1.60 Leva (approx. 0.80 EUR)). Alternatively, you can take a taxi (only the companies at the official taxi rank is recommended).

**Visa:** Formal invitation letters for participants who need to apply for a visa can be sent by the Organizers if the required details are provided to the contact e-mail.

## **Registration information**

Please note that participation in the Symposium requires registration. To register, please visit the Symposium website: <https://indico.cern.ch/event/1339442/registrations/>. The conference fee, which includes all conference events (welcome drink, conference materials, coffee breaks, excursion and the conference dinner) as well as the lunches during the conference, is 450 € (early bird registration before July 1<sup>st</sup>, 2024, payment within 2 weeks after registration) or 500 € (regular fee before September 1<sup>st</sup>, 2024). A reduced conference fee of 330 € will be available for PhD students. The fee for accompanying persons of 200 € will cover the welcome drink, the lunches and the conference dinner. The preferred way for the payment is by bank transfer, although some possibility of using major bank cards will be provided. Participants will receive payment details and instructions upon registration.

**Social program:** A solemn session will be held on the morning of September 11<sup>th</sup> at the Aula Magna of Sofia University, followed by a walking guided tour through downtown Sofia. The official conference dinner will take place in the evening of September 11<sup>th</sup> at the Astoria Grand Hotel.



**Accommodation:** A limited number of rooms at the conference hotel will be available at preferential prices:

Single room: 87 €/night

Double room: 52 €/person/night

including breakfast. Those will be distributed at first-come-first-served principle.

It is also possible to book an accommodation at other hotels in the vicinity of the conference venue.

There are plenty of such places which can be easily booked on all online tourist platforms.

### **Important Dates:**

- Abstract Submission Opens: **April 1, 2024**
- Abstract Submission Deadline: **May 15, 2024**
- Notification of Abstract Acceptance: **June 15, 2024**
- Early Bird Registration Deadline: **July 1, 2024**

### **Contact Us:**

For inquiries, please contact the organizing committee at: [isns24@phys.uni-sofia.bg](mailto:isns24@phys.uni-sofia.bg)

With warm regards,

### **Organizing committee:**

Calin A. Ur, ELI-NP, Romania

Constantin Mihai, IFIN-HH, Romania

Georgi Rainovski, Sofia University, Bulgaria

Georgi Georgiev, IJCLab, France

### **Local organizing committee:**

Georgi Rainovski, Sofia University, Bulgaria

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Diana Kocheva, Sofia University, Bulgaria

Nikolay Minkov, INRNE, Bulgaria

Pavlin Grudev, INRNE, Bulgaria

Elena Stefanova, INRNE, Bulgaria

Peter Vankov, BNRA, Bulgaria

Lili Atanasova, MU Sofia, Bulgaria (symposium secretary)

### **This event is sponsored by:**

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