

26.08 .2024

Third and Final 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 9th to the 13th 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)
Virgil Baran (University of Bucharest)
Franco Camera (University of Milan)
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)

Filip Kondev (ANL)
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)
Calin A. Ur (ELI-NP/IFIN-HH)

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/>.

Scientific program

The conference will start on Monday, September 9, 2024, at 08:45 am and will end on Friday, September 13, at 16:15 pm. The scientific program will consist of invited review talks, invited topical talks, contributed oral presentations, and a poster session. All oral presentations will be plenary and will be held in the conference room at the Astoria Grand Hotel on Monday, Tuesday, Thursday and Friday. The morning session on Wednesday, will take place at the Rectorate of University of Sofia "St. Kl. Ohridski" (address 1504 Sofia, 15 Tsar Osvoboditel Blvd.). Please note that no organized transfer from the hotel will be provided - refer to the maps in the "**Public**



Transport to Conference Venue" section below for directions. A preliminary version of the conference program will be available soon on our website (<https://indico.cern.ch/event/1339442/program>). Invited review talks will be 30 minutes long, followed by 5 minutes for discussion. Invited topical talks will last 20 minutes plus 5 minutes for discussion, and contributed oral talks will be 12+3 minutes. The poster session is scheduled for Tuesday, September 10, at 6:10 – 7:40 pm. A book of abstracts is presently being compiled and will be published on the conference website. A paper copy will be distributed to all registered participants at the beginning of the conference.

Proceedings

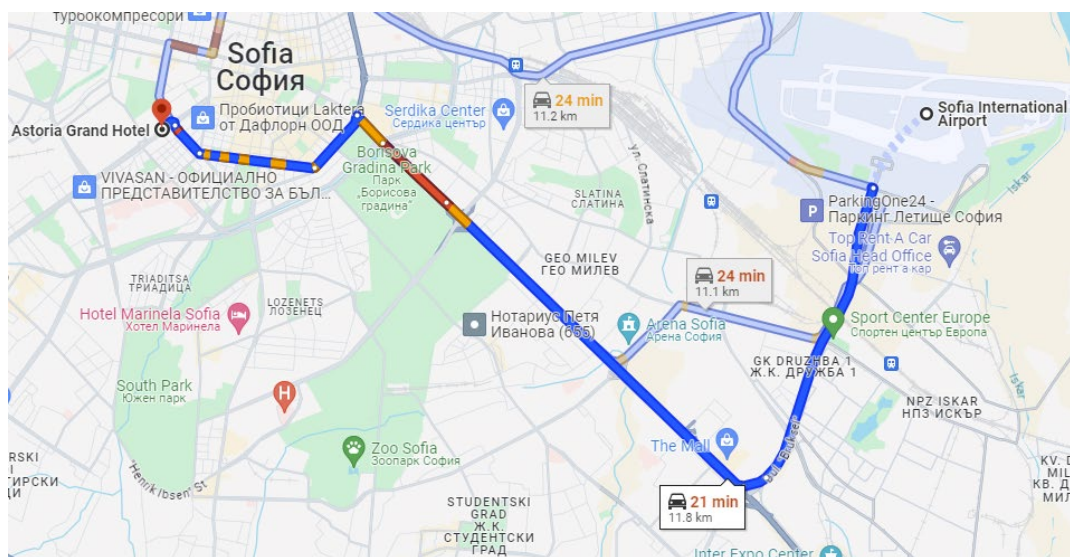
Conference contributions will be published as regular articles in a focused issue of Physica Scripta (<https://iopscience.iop.org/collections/ps-240520-560>). Submitted manuscripts should be complete and comprehensive articles related to the conference topics. These manuscripts will undergo the journal's 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 Vitoshka, 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.



[Link to google maps!](#)

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



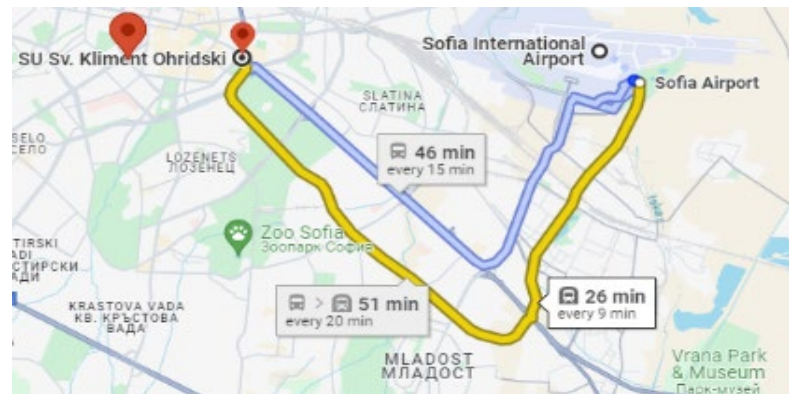
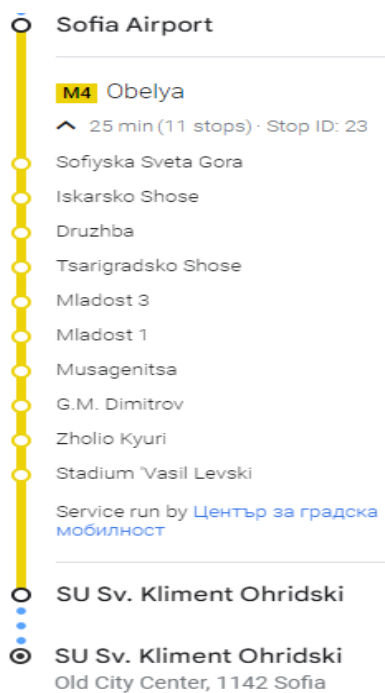
Arrival by plane: The conference venue can be reached by public transport (<https://www.sofiatraffic.bg/en/>) from Terminal 2 of Sofia Airport. Alternatively, you can take a taxi (only the companies at the official taxi rank are recommended).

Public transport to Conference venue:

From January 1, 2023, the 30 plus ticket is introduced, which allows you to transfer within 30 minutes after the first validation. When transferring, it must be revalidated in each subsequent vehicle. It costs BGN 1.60 (approximately 0.80 EUR) and can be used with a bank card (Pay-As-You-Go). In the case of trips made with more than two 30 plus tickets within the day, paid with the same bank card, a daily card is automatically aggregated for all lines at a price of BGN 4,00.

Finally, the amount due is calculated after 00:00 on the following day in which the bank card or the electronic wallet was used.

- 1) From Terminal 2 of Sofia Airport, take the underground for 11 stations and get off at the "SU St. Kliment Ohridski" station (approximately 26 minutes).



[Link to google maps!](#)

- 2) After a 2-minute walk, take trolleybus number 5 for 4 stops and get off at "Russian Monument Square" ("Russki Pаметnik").



[Link to google maps!](#)

Metrostantsiya Su SV. Kliment Oh...

5 Pl. Ruski Pametnik

9 min (5 stops) · Stop ID: 2827

i Information

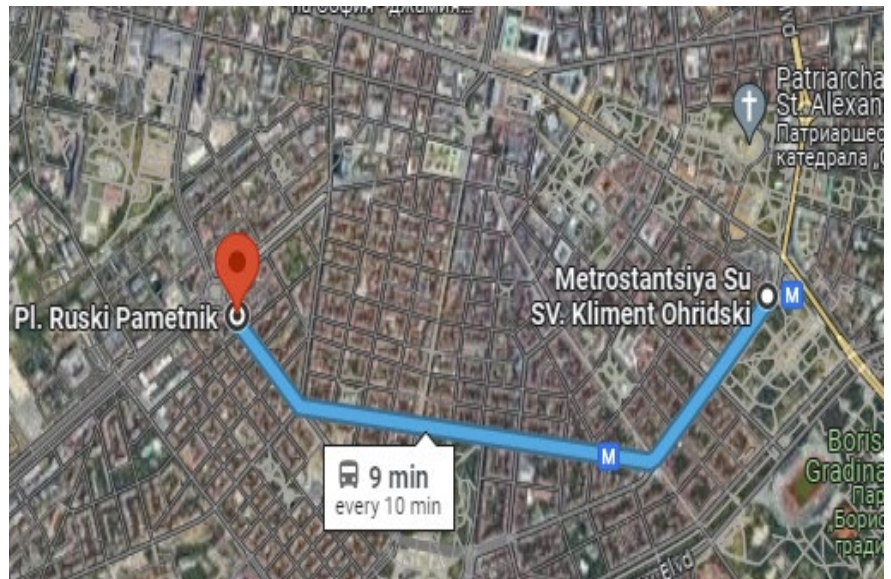
sofiatraffic.bg

Effective from 8/20/2024, 3:00 AM to 9/14/2024, 3:00 AM

- Ul. Gen. Gurko
- Kino Odeon
- NDK
- Bul. Praga

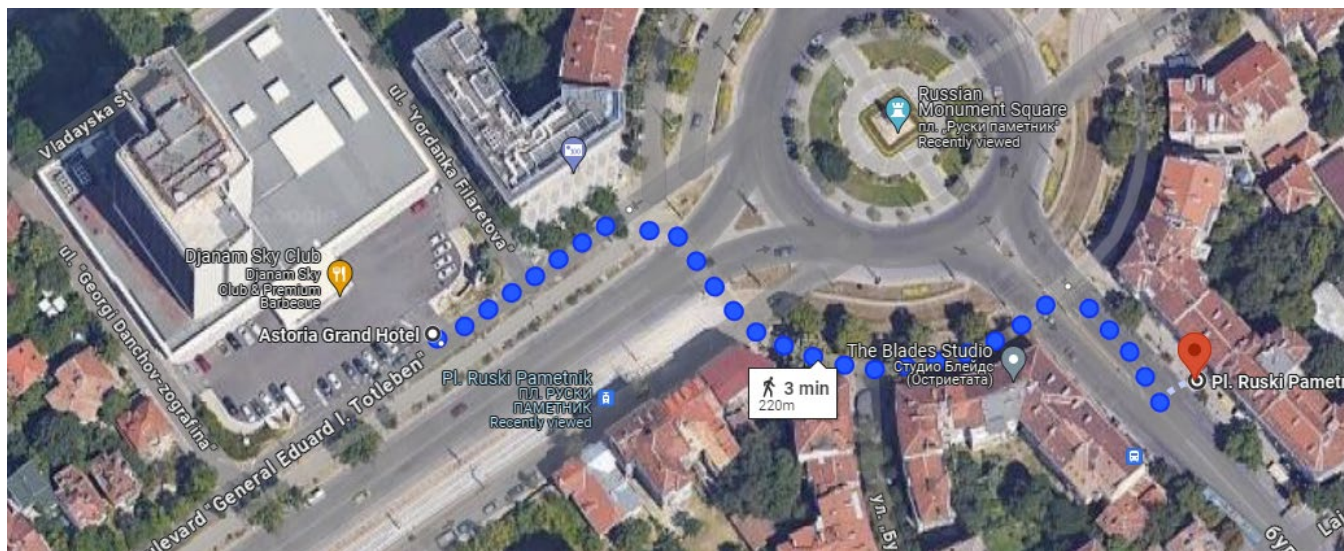
Service run by Център за градска мобилност - Route information

0 Pl. Ruski Pametnik



[Link to google maps!](#)

3) After a 3-minute walk, you will arrive in front of the Grand Hotel Astoria.



[Link to google maps!](#)

Registration information

Since the early-registration deadline has passed, the conference fee is 500 € (regular fee before September 1st, 2024). It covers participation in the conference all conference events (welcome drink, conference materials, coffee breaks, excursion and the conference dinner) as well as the lunches during the conference. A reduced conference fee of 330 € is available for PhD students.

Accompanying Persons: Participants should register accompanying persons at the conference website. The fee for accompanying persons of 200 € will cover the welcome drink, the lunches and the conference dinner.

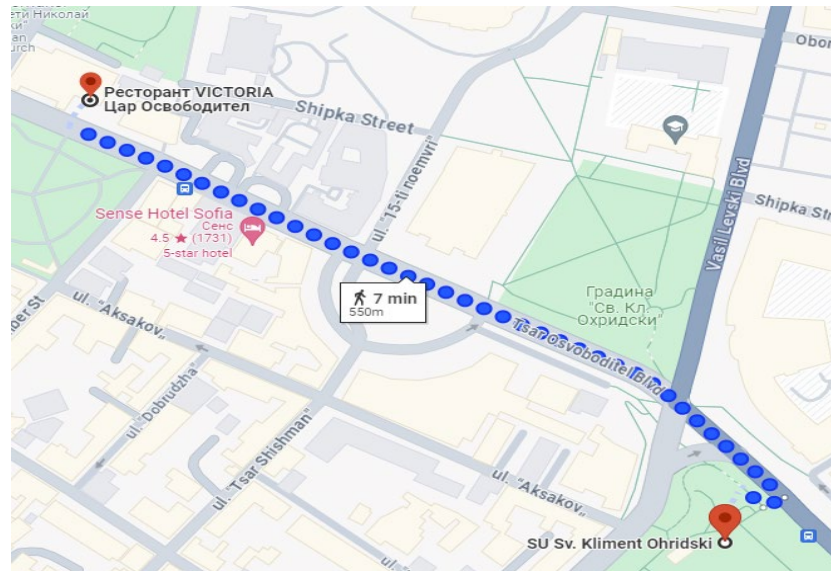
The preferred way for the payment is by bank transfer, although some possibility of using major bank cards will be provided. Participants will receive payment details and instructions upon registration.

Social program: A variety of social events will be organized, providing participants the opportunity to connect with fellow scientists in a more relaxed atmosphere. The organizers are pleased to invite you to a **Welcome Reception** at the symposium venue, the Astoria Grand Hotel, on Sunday, September 8th, at 6:00 pm. All participants are welcome.

A solemn session will be held on the morning of September 11th in the "The Egg" hall at the Rectorate of Sofia University "St. Kl. Ohridski," followed by lunch at the restaurant "Victoria"



(see the map) and a guided walking tour through downtown Sofia. The official conference dinner will take place that evening at the Astoria Grand Hotel.



[Link to google maps!](#)

Conference excursion: The conference excursion will be a two-hour city tour with a guide and is free of charge. The tour will start at 14:30 on September 11, from the entrance of the restaurant "Victoria" in the center of Sofia, where the conference lunch will be held that day. During the tour, participants will visit several notable landmarks, including the very old Basilica Saint Sofia (6th century), the Alexander Nevsky Cathedral (20th century), the National Theater, the Rotunda Saint George (4th century), the Presidency, the Church of St. Petka of the Saddlers (11th century), and St. Nedelya Church. Participants interested in the excursion can register for it at the conference desk.

In addition to the official conference excursion, a visit to the National Archaeological Museum can be organized based on interest. This optional visit will take place after the city tour, starting at the tour's endpoint. The fee is 10 levs, and the visit will be without a museum guide, although a guide may be arranged depending on the number of participants.

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.



Contact Us:

For inquiries, please contact the organizing committee at: isns24@phys.uni-sofia.bg

With warm regards,

Organizing committee:

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Georgi Georgiev, IJCLab, France

Local organizing committee:

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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:

- Gamma Consult Ltd., Bulgaria
- Theta Consult Ltd., Bulgaria
- Kozloduy NPP EAD, Bulgaria