

The 17th international symposium on Nuclei in the Cosmos (NIC-XVII, 2023)

Sep. 4, 2023

Final Circular

Scientific program

The 17th International Symposium on Nuclei in the Cosmos (NIC) will take place at the Science Culture Center (SCC) of the Institute for Basic Science (IBS) in Daejeon, Republic of Korea. NIC is a major bi-annual conference in nuclear astrophysics, covering nuclear physics, astrophysics, astronomy, cosmo-chemistry, and other related fields. NIC XVII is organized by the Center for Exotic Nuclear Studies (CENS) and the Institute for Rare Isotope Science (IRIS) of IBS.

The symposium will cover the following topics:

- Nuclear reaction rates and stellar abundances
- The s-process
- Nuclear properties for astrophysics
- High-density matter
- Novae and X-ray bursts
- Type Ia supernova and the p-process
- Core-collapse supernovae, mergers and the r-process
- Underground nuclear astrophysics
- The early Universe
- Galactic evolution
- Radioactivity and meteorites
- Stellar modelling
- New facilities, instruments and tools

Website and email

- Indico page: <https://indico.ibs.re.kr/event/nic2023>
- Inquiries about NIC XVII: nic2023@ibs.re.kr

Symposium schedule and format

A timetable with details on the starting/end times of each session, invited/oral/poster presentation time slots and social events, is now published on the Indico page. Each poster presentation time slot shown in Indico is only a placeholder value, and not meaningful.

Please note that the timetable is not the final version and may be subject to small changes. Unless specified otherwise, the length of an oral presentation is:

- Invited: 25 + 5 minutes of Q&A
- Contributed: 12 + 3 minutes of Q&A

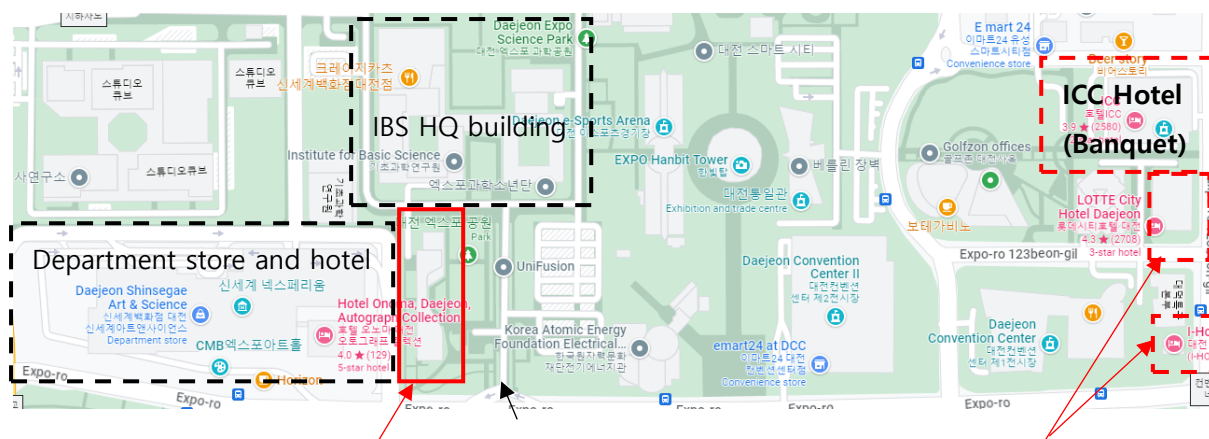
To minimize delays, the speakers are strongly recommended to adhere to the given times. The slides should be uploaded in advance before the beginning of their respective sessions.

An abbreviated timetable of NIC 2023 is provided below (coffee/lunch breaks not shown):

Day/time	9/18 (Mon.)	9/19 (Tues.)	9/20 (Wed.)	9/21 (Thurs.)	9/22 (Fri.)
Morning	Opening remarks The s-process (1)	Nuclear reaction rates and stellar abundances (2)	New facilities, instruments and tools	Core-collapse supernovae, mergers and the r-process (1)	Core-collapse supernovae, mergers and the r-process (2)
	The s-process (2)	The early Universe and galactic evolution (1)	Poster session	High-density matter	The early Universe and galactic evolution (2)
Afternoon	Underground nuclear astrophysics	Radioactivity and Meteorites	Excursions: RAON and Jeonju	Stellar modelling	Nuclear properties for astrophysics (2)
	Nuclear reaction rates and stellar abundances (1)	Novae and X-ray bursts, Type IA supernova and the p-process		Nuclear properties for astrophysics (1)	Closing remarks (End by 15:30)
Evening (Reception on 9/17, 18:00~)		Poster session		Conference dinner	

Venue and access

The Science Culture Center of IBS features an auditorium on the second floor for plenary oral sessions, and areas on the second and third floors for the reception and poster presentations. The conference dinner will take place at the ICC Hotel, which is ~15 minutes of walking distance from the main conference venue. Below is a map of the relevant locations and the surrounding area.



Main entrance of IBS

Lotte City Hotel
and I-Hotel

IBS SSC (NIC 2023)

- Reception
- Plenary sessions
- Poster session

Travel guides to Daejeon and IBS are provided on the Indico page named "Travel Information".

Social events

The following events are planned during the symposium:

- Welcome reception in the evening of Sep. 17 (Sun.)
- Afternoon excursion to RAON and Jeonju on Sep. 20 (Wed.)
- Conference dinner on Sep. 21 (Thurs.)

The details of the social events of NIC XVII are posted on the Indico webpage under "Social events".

Video recordings of oral presentations

The advisory committees have agreed to record and publish videos of live oral presentations for NIC 2023 for future access, in place of conference proceedings. With this decision, the organizers seek a more efficient dissemination of the current research topics and their latest progress.

Registration

Registration is still possible, both online (until Sep. 10) and by cash on site. For those who have not yet done so, please register your profile on the web regardless of the payment method. The registration fee is now 550 USD or 750,000 KRW (standard), and 300 USD or 400,000 KRW (student). The fee for an accompanying person attending the conference dinner is 100 USD. The registration fee will cover the symposium reception, coffee breaks, poster session snacks, excursion (excluding private expenses in Jeonju) and banquet.

Questions regarding the payment can be directed to nic2023@ibs.re.kr.

NIC School

The School for NIC-XVII for graduate students and young postdocs will be held at the Institute for Basic Science, Sep. 11-15. The school will provide lectures on basics and the current subjects in nuclear astrophysics, from theories to experiments and observations. A separate web page for the school is: <https://indico.ibs.re.kr/event/590/>

The NIC-XVII school is partially sponsored by ChETEC-INFRA and EMMI for registration fees of students and young postdocs.

Supporting institutions and organizations of NIC and NIC School 2023

- Particle and Nuclear Physics Institute of IBS
- Asian Nuclear Physics Association (ANPhA)
- RAON Users Association
- Center for Extreme Nuclear Matter (CENuM)
- Origin of Matter and Evolution of Galaxies (OMEG)
- Daejeon Tourism Organization
- Chemical Elements as Tracers of the Evolution of the Cosmos – Infrastructures for Nuclear Astrophysics (ChETEC-INFRA)
- ExtreME Matter Institute (EMMI)

