

XVIII International Symposium on

NUCLEI IN THE COSMOS

Palau de Congressos, Girona (Catalonia, Spain) June 15 – 20, 2025

THIRD CIRCULAR

VENUE

The XVIII International Symposium on Nuclei in the Cosmos (NIC XVIII) will take place in **June 15 – 20**, 2025 at the **Palau de Congressos**, Girona (Catalonia, Spain), a conference center conveniently located near the city center:

Palau de Congressos de Girona Pg. De la Devesa, 35 17001 Girona (Catalonia, Spain) https://gironacongressos.girona.cat/eng/index.php



NIC XVIII will start on **Sunday**, **June 15**, **2025**, with a **welcome cocktail** at the **Palau de Congressos**, Girona (Catalonia, Spain). The venue is located about 1 km from Girona's High-Speed Train Station and about 1.5 km from the historic city center. NIC XVIII will conclude on **Friday**, **June 20**, **by lunchtime**.



Girona (Population: 100 000 inhabitants) is a city with a rich history (*Gerunda*, a Roman settlement, was established around 75 AD). It has a mild climate, unique gastronomy, and is well connected, with two airports nearby (Girona and Barcelona-El Prat) and a high-speed train connection to Barcelona (37 min.).



Girona, site of NIC XVIII.

WEBPAGE AND CONTACT

More information is available on the Conference webpage:

https://indico.icc.ub.edu/event/341/

Please, check the webpage for last minute updates. Inquiries related to NIC XVIII should be sent to the email address: <u>nic2025@ieec.cat</u>

REGISTRATION FOR NIC XVIII

Registration for NIC XVIII must be completed online:

https://indico.icc.ub.edu/event/341/registrations/114/

At this stage, only regular registration is available. The **registration fee** is $675 \in$, payable before **May 15.** Payment must be made via bank transfer to the <u>Institut d'Estudis</u> Espacials de Catalunya. The bank details are:

Caixabank C. Aribau 185, 08021 Barcelona, Spain IBAN: ES48.2100.0655.7302.0031.0678 BIC: CAIXESBBXXX

<u>IMPORTANT!</u> Please include your name in the bank transfer as the payment reference (under "Concept").

PhD students and undergrads can benefit from a reduced registration fee of $450 \in$, payable before May 15. The registration fee covers local expenses (including welcome cocktail, coffee breaks, lunches, excursion, and Conference banquet).

Accompanying persons must pay a registration fee of $240 \in$ before May 15. This fee covers the welcome cocktail, the excursion, and the Conference banquet.

Please ensure that both registration and payment are completed before May 15.

TENTATIVE PROGRAM

The scientific program of NIC XVIII will cover recent advances and future directions and perspectives in all areas of interest for Nuclear Astrophysics. Following the spirit of all previous NIC meetings, the program will consist of plenary talks only (no parallel sessions), with a blend of invited review talks and selected oral and poster contributions, covering all areas of interest in experimental, observational, and theoretical Nuclear Astrophysics.

Approximately 265 abstracts have been submitted. Due to the limited number of talk slots available in the program, many abstracts have been accepted as posters. Posters will play a central role at NIC: several sessions will feature 1-minute flash presentations highlighting the main results of each poster. Additionally, a dedicated poster session—

with snacks and beverages—will be held on Tuesday, June 17, providing an opportunity to discuss each contribution in more detail. Posters will be on display throughout the entire week of the Symposium, in the same room where lunches will be served.

POSTER SIZE

We recommend designing your posters with a maximum size of 140 cm (height) \times 90 cm (width).

INVITED SPEAKERS

The list of confirmed speakers includes:

Almudena ARCONES (TU Darmstadt) Andreas BAUSWEIN (GSI Darmstadt) Maria BERGEMANN (MPIA Heidelberg) Gabriele CESCUTTI (U Trieste) Arthur CHOPLIN (ULB Brussels) **Roland DIEHL** (MPE Garching) Anthea FANTINA (GANIL Caen) Brian FIELDS (U Illinois Urbana-Champaign) Andreas FLÖRS (GSI Darmstadt) Stéphane GORIELY (ULB Brussels) Gyorgy GYURKY (ATOMKI Debrecen) Erin HIGGINS (Armagh Observatory) Miho ISHIGAKI (NAOJ Tokyo) Matthias JUNKER (LNGS L'Aquila) Ann-Cecile LARSEN (U Oslo) Katharina LODDERS (Washington U St. Louis) Nan LIU (Boston U) Weiping LIU (CIAE Beijing) Shunji NISHIMURA (RIKEN Saitama) Larry NITTLER (Arizona State U) Hendrik SCHATZ (Michigan State U) Lami S. SULEIMAN (CSU Fullerton) Chris WREDE (Michigan State U) Meng-Ru WU (Academia Sinica Taipei)

A preliminary version of the **NIC XVIII Program**, with a tentative schedule and list of sessions, is enclosed as an **appendix** at the end of this circular. A detailed symposium program, along with the Book of Abstracts, will soon be available on the conference website.

NIC XVIII will be an **in-person only** event. All sessions will be recorded and will become available for the registered participants after the symposium (no proceedings are being planned).

SOCIAL PROGRAM

Several social activities have been scheduled during NIC XVIII:

- Welcome cocktail (June 15 evening, Sunday)
- Excursion (June 18 12:00 19:00, Wednesday)
- Conference banquet (June 19 evening, Thursday)

Excursion

Participants and accompanying persons can choose from three excursion options when registering online:

- Day tour in Barcelona (bus provided)
- Besalú and other nearby charming villages (bus provided)
- Girona (walking tour)



(Left to right) Besalú, Barcelona, Castellfollit de la Roca, and Girona.

Conference Banquet

The Conference Banquet will take place at **Mas Marroch**, featuring a menu prepared by the renowned *Roca Brothers*, a trio of world-famous chefs and owners of several top restaurants in Girona, including the prestigious *El Celler de Can Roca*. Transportation to Mas Marroch will be provided for all participants and accompanying persons.

TRANSPORTATION TO GIRONA

Shuttle buses from Barcelona to Girona will be arranged by the NIC organizers only if a sufficient number of participants arrive at similar times. We plan to update this information on the conference website after **May 15** (the registration deadline), in a dedicated "Travel Information" section, once we have received travel details from all participants. Regardless of demand for the shuttle service, we will provide comprehensive guidance on how to reach Girona from Barcelona Airport and downtown Barcelona on the conference website.

ACCOMMODATION FOR NIC XVIII

As detailed in the Second Circular, accommodation in Girona is somewhat limited, and June is considered high season. Therefore, we **strongly** encourage all attendees to finalize their accommodation arrangements as soon as possible, as prices are expected to increase as the Symposium dates approach. To book a room, please contact **nic2025@vinolas.com** and make sure to include the code **NIC2025** in your email to indicate your attendance at the *Nuclei in the Cosmos Symposium*. Additionally, <u>more affordable options</u>, such as budget hotels and *Airbnb* apartments, can also be arranged directly through **nic2025@vinolas.com**.

CANCELLATION POLICY

All cancellation requests must be received before MAY 25, 2025

COMMITTEES

Local Organizing Committee

Francisco Calviño (UPC) Yuri Cavecchi (UPC) Margarita Hernanz (ICE-CSIC, IEEC) Jordi Isern (RACAB, ICE-CSIC, IEEC) Jordi José (Chair, UPC, IEEC) Jordi Llorca (UPC) Kelsey Lund (INT/Berkeley) Marina Martínez (GUF) Arnau Rios (UB, ICCUB) Glòria Sala (UPC, IEEC) Aldo Serenelli (ICE-CSIC, IEEC) Laura Tolós (Vice-chair, ICE-CSIC, IEEC) Josep M. Trigo-Rodríguez (ICE-CSIC, IEEC) Anna Bertolín (IEEC) Pilar Montes (IEEC)

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Sachiko Amari (WUSL St Louis, USA) Faical Azaiez (LNL Legnaro, Italy) Daniel Bemmerer (HZDR Dresden, Germany) Maurizio Busso (U Perugia, Italy) Andrew Cumming (McGill U Montreal, Canada) Andrew M. Davis (U Chicago, USA) Roland Diehl (MPE Garching, Germany) Iris Dillmann (TRIUMF Vancouver, Canada) Alba Formicola (LNGS Assergi, Italy) Stéphane Goriely (ULB Brussels, Belgium) Kevin I. Hahn (IBS Daejeon, South Korea) Fairouz Hammache (IJCLab Orsay, France) Raphael Hirschi (U Keele, UK) Christian Iliadis (UNC Chapel Hill, USA) Jordi José (UPC Barcelona/IEEC, Spain) Taka Kajino (Beihang U Beijing, China) Amanda Karakas (Monash U, Australia) Shigeru Kubono (RIKEN Saitama, Japan) Weiping Liu (CIAE Beijing, China) Katharina Lodders (WUSL St Louis, USA) Maria Lugaro (Konkoly O Budapest, Hungary) Gabriel Martínez-Pinedo (TU Darmstadt/GSI, Germany) Gail McLaughlin (NCSU Raleigh, USA) Larry Nittler (ASU Tempe, USA) Ashley Ruiter (UNSW Canberra, Australia) Artemis Spyrou (MSU East Lansing, USA) Friedel Thielemann (U Basel, Switzerland) Laura Tolós (ICE-CSIC Bellaterra/IEEC, Spain) Aurora Tumino (Kore U Enna/LNS Catania, Italy) Elishevah van Kooten (U Copenhaguen, Denmark) Mathis Wiedeking (U Witwatersrand, South Africa, & LBNL Berkeley, USA)

Program Committee

Sachiko Amari (WUSL St Louis, USA) Daniel Bemmerer (HZDR Dresden, Germany) Alba Formicola (LNGS Assergi, Italy) Raphael Hirschi (U Keele, UK) Jordi José (UPC Barcelona/IEEC, Spain) Amanda Karakas (Monash U, Australia) Larry Nittler (ASU Tempe, USA) Laura Tolós (ICE-CSIC Bellaterra/IEEC, Spain) We look forward to welcoming you all at NIC XVIII!

Sincerely yours, Jordi José, Chair Laura Tolós, Vice-Chair On behalf of the Local Organizing Committee of NIC XVIII



APPENDIX. TIMETABLE AND LIST OF SESSIONS

8:30 - 9:00 Session I Opening (30 min) Session I (30 min) Session IV (30 min) Session IV (30 min) Session IX (30 min) Session IX (45 min) Session IX (45 min) Session IX (15 min) Session IX (30 min) Session IX (45 min)		SUNDAY June 15	MONDAY June 16	TUESDAY June 17	WEDNESDAY June 18	THURSDAY June 19	FRIDAY June 20
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Sessions

- 1. Opening + Overview Talk [1 hr]
- 2. Stellar abundances I spectroscopic vs. meteoritic determinations [2hr 30 min]
- 3. Nuclear reactions [2 hr 45 min]
- 4. Atomic and nuclear inputs for Astrophysics [1 hr]
- 5. Stellar abundances II presolar grains [1 hr]
- 6. Stellar evolution I hydrostatic phases, AGB stars, s- and i-processes [2 hr]
- 7. Nuclear Theory [1 hr]
- 8. BBN and early universe [1 hr]
- 9. Stellar evolution II explosive nucleosynthesis in SNe, kilonovae and mergers; r- and pprocess [2 hr 15 min]
- 10. Neutrinos [1 hr]
- 11. High-density matter, EOS of neutron stars [1 hr]
- 12. Stellar evolution III explosive nucleosynthesis in novae and XRBs [1 hr]
- 13. Galactic Chemical Evolution [1 hr]
- 14. New facilities and experimental techniques in Nuclear Astrophysics [2 hr 45 min]
- 15. Gravitational Waves and Nuclear Astrophysics [2 hr]
- 16. Closing [30 min]

Special Session. *Remembering Don Clayton, Roberto Gallino & Karl-Ludwig Kratz* [30 min]

<u>6 Flash Sessions</u>. 1-min presentation of poster's highlights $[6 \times 30 \text{ min}]$

Poster Session [2 hr]