



**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: nic2025@ieec.cat

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 €**, payable before **May 15**. Payment must be made via bank transfer to the Institut d'Estudis Espacials de Catalunya. The bank details are:

Caixabank

C. Aribau 185, 08021 Barcelona, Spain

IBAN: ES48.2100.0655.7302.0031.0678

BIC: CAIXESBBXXX

IMPORTANT! 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 €**, 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 €** 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) × 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, more affordable options, 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)
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Glòria Sala (UPC, IEEC)
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Aurora Tumino (Kore U Enna/LNS Catania, Italy)
Elishevah van Kooten (U Copenhagen, Denmark)
Mathis Wiedeking (U Witwatersrand, South Africa, & LBNL Berkeley, USA)

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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

	SUNDAY June 15	MONDAY June 16	TUESDAY June 17	WEDNESDAY June 18	THURSDAY June 19	FRIDAY June 20
8:30 – 9:00		Session I Opening	Session IV (30 min)	Session VIII (30 min)	Session IX (30 min)	
9:00 – 10:00		Session I Overview Talk (30 min) Session II (30 min)	Session IV (30 min) Session V (30 min)	Session VIII (30 min) Session IX (30 min)	Session IX (30 min) Special Session (30 min)	Session XIV (45 min) Session XV (15 min)
10:00 – 10:45		Coffee break	Coffee break	Session IX (45 min)	Coffee break	Coffee break
10:45 – 12:00		Session II (45 min) FLASH-1 1min posters (30 min)	Session V (30 min) FLASH-4 1min posters (30 min) Session VI (15 min)	Brunch	Session X (60 min) Session XI (15 min)	Session XV (75 min)
12:00 – 13:00		Session II (60 min)	Session VI (60 min)	Excursions	Session XI (45 min) Session XII (15 min)	Session XV (30 min) Closing (30 min)
13:00 – 14:15		Lunch	Lunch		Lunch	
14:15 – 15:00		Session II (15 min) Session III (30 min)	Session VI (45 min)		Session XII (45 min)	
15:00 – 16:15		Session III (45 min) FLASH-2 1min posters (30 min)	FLASH-5 1min posters (30 min) Session VII (45 min)		Session XIII (60 min) Session XIV (15 min)	
16:15 – 17:00		Coffee break	Coffee break		Coffee break	
17:00 – 18:00		Session III (60 min)	Session VII (15 min) FLASH-6 1min posters (30 min) -		Session XIV (60 min)	
18:00 – 19:00	Welcome cocktail	Session III (30 min) FLASH-3 1min posters (30 min)	POSTER Session		Session XIV (30 min) -	
19:00 – 20:00					Conference Dinner (19:00 – 21:00)	

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 p-process [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]

6 Flash Sessions. 1-min presentation of poster's highlights [6×30 min]

Poster Session [2 hr]