



**NUSYM24 – XII<sup>th</sup> International Symposium on Nuclear Symmetry Energy**  
**September 09-13, Caen – France**

**2<sup>nd</sup> announcement**

Dear colleagues,

We would like to remind you that the **XII<sup>th</sup> International Symposium on Nuclear Symmetry Energy (NuSYM24)** will be held during September 9-13 in Caen (France) organized by GANIL.

The purpose of NuSYM24 consists of discussing advances in experimental and theoretical studies of the nuclear equation of state of asymmetric nuclear matter and relevant advances in astrophysics. An important role of the symposium is to unify efforts of the nuclear physics and astrophysics communities in addressing common research challenges.

The program will cover the current state of research and expected development trends in various centers and facilities in the world. The symposium, while providing a convenient space and time for discussions of burning problems and future directions, will also offer opportunities to build collaborations to advance in inter-related research fields.

**Topics of the NuSym24 conference:**

- Nuclear equation-of-state (EoS) and symmetry energy in laboratory experiments, in astrophysical observations, and microscopic theories.
- Nuclear structure and direct reactions.
- Heavy-ion collision experiments.
- Transport model simulations of heavy-ion reactions.
- Microscopic calculations of neutron-rich dense nuclear matter.
- Isospin dependence of nuclear effective interactions.
- Clustering in isospin-asymmetric nuclear systems.
- Astrophysical multi-messenger observations.
- Theory of compact stars and neutron star mergers.
- Supernova theory for neutrino emission and nucleosynthesis.
- Investigations at existing and future accelerator facilities.
- Detector developments.

The scientific sessions will consist of invited talks and contributed presentations among the submitted abstracts.

### Invited speakers (confirmed to now):

- Fiorella Burgio (INFN Catania)
- Stefano Burrello (INFN/LNS Catania)
- Zbigniew Chajecki (Western Michigan University)
- Dan Cozma (IFIN-HH Magurele)
- Christian Drischler (OHIO University)
- Francesca Gulminelli (LPC Caen)
- Natsumi Ikeno (Tottori University)
- Che-Ming Ko (Texas A&M)
- Arnaud LeFevre (GSI)
- Nicolas Le Neindre (LPC Caen)
- Jérôme Margueron (IP2I Lyon)
- Nunzia Martorana (University of Catania, INFN/LNS Catania)
- Mizuki Kurata Nishimura (RIKEN)
- Akira Ono (Tohoku University)
- Peter PH Pang (Utrecht University)
- Betty Tsang (Michigan State University)
- David Tsang (Bath University)
- Giuseppe Verde (INFN Catania)
- Hermann Wolter (University of Munich)

### Registration and Abstracts

Webpage for registration is : <https://indico.in2p3.fr/event/31700/overview>

Participants wishing to present a contribution (oral or poster) should submit an abstract directly on the website. **The deadline for abstract submission has been extended until June 30, 2024.**

**The conference registration fee will be 290€**, including coffee breaks, lunches and social dinner. There will be no fee for undergraduate students and PhD students and a charge of **100€** for accompanying person.

An excursion and a visit of the beautiful town of **Honfleur** are scheduled on Wednesday September 11, 2024 (afternoon).

To pay by credit card, please follow the link below : <https://sogecommerce.societegenerale.eu/vads-site/GANIL>

### Practical information

**NuSYM24 will take place at GANIL** located in Caen, Normandy, France.

**The Symposium** will start on the morning of Monday, September 9<sup>th</sup> and end on Friday noon, September 13<sup>th</sup>.

Transport models satellite workshop will take place on Friday afternoon and Saturday.

### Important dates

Abstract submission deadline	<b>June 30<sup>th</sup>, 2024</b>
Notification of abstract acceptance	<b>July 26<sup>th</sup>, 2024</b>
Registration deadline	<b>August 22<sup>th</sup>, 2024</b>
NuSym23 scientific sessions	<b>September 9-13<sup>th</sup>, 2024</b>
Transport models satellite workshop	<b>September 14<sup>th</sup>, 2024</b>

### Accommodation and travel

Information on lodging and travel is available on our website.

### Contact

We would appreciate if you could bring this Symposium to the attention of your colleagues. Participation of young researchers is strongly encouraged.

You can contact us at the following address: [nusym24@ganil.fr](mailto:nusym24@ganil.fr)

Please do not hesitate to contact us if you need an invitation letter for visa application.

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