

# **The 10<sup>th</sup> European Summer School on Experimental Nuclear Astrophysics**

**Catania, Italy**  
**16-23 June 2019**

## 2<sup>nd</sup> Announcement

We have the pleasure to announce the “10<sup>th</sup> European Summer School on Experimental Nuclear Astrophysics (Santa Tecla School)”, devoted to the education of young Ph.D. students and young researchers. The school belongs to the European Network of Nuclear Astrophysics Schools (ENNAS), a network made by the European schools on nuclear astrophysics and related areas (the Santa Tecla, the Sinaia, the Russbach schools), having the common effort of preparing and educating young physicists in nuclear physics, astrophysics and their mutual relationship in the nuclear astrophysics field.

The school will deal with both various astrophysical issues, ranging from primordial nucleosynthesis to stellar evolution, and nuclear topics, including novel experimental approaches, radioactive ion beams, indirect methods, and plasma physics (in stars and in the laboratory).

The lectures of the school will be given by high-quality level scientists, selected for their didactical skills. In the spirit of the school, large room will be given to young researcher oral contributions. Specific sessions will be allocated to allow them to present their latest scientific results.

- **ENNAS**

The European Network of Nuclear Astrophysics Schools (ENNAS) is a project that aims to correlate the topics of the four European schools, to correlate their activities to better serve the community of science and students, and to correlate the efforts to obtain funds for these schools, from national and international agencies (i.e. EPS, EC...).

- **SCHOOL WEBPAGE AND CONTACT**

Updated information about the school, the program, the registration form, the fee payment will be given at the following:

-website: <https://agenda.infn.it/event/17245/>

-email: [astro2019@lns.infn.it](mailto:astro2019@lns.infn.it)

- **VENUE**

The school will be held in Catania, at the Laboratori Nazionali del Sud ([www.lns.infn.it](http://www.lns.infn.it)).

- **TIMING**

The school will be held from Sunday, 16<sup>th</sup> June, to Sunday 23<sup>th</sup> June. The seven school days include one day for arrivals (16.06.19) and one day for departures (23.06.19). During the whole period of the school, morning and afternoon lecture sessions will be given.

- **HISTORY**

The school is internationally re-known as a cornerstone for young-scientist formation in the field of nuclear astrophysics as well as a “melting-pot” for the discussion of the up-to-date research activity. The previous editions of the school took place in 2001, 2003, 2005, 2007, 2009, 2011, 2013, 2015 and 2017. Traditionally, particular attention is devoted to the participation of young students of less-favoured countries.

- **PRELIMINARY SCIENTIFIC PROGRAM**

Primordial Nucleosynthesis  
Stellar Evolution  
Hydrostatic and Explosive Nucleosynthesis  
Plasmas in stars and the laboratory  
Detectors and Facilities for Nuclear Astrophysics  
Experiments with rare and radioactive isotopes  
Indirect Methods for Nuclear Astrophysics

- **LIST OF CONFIRMED SPEAKERS**

C. Bertulani, A. Bonasera, A. Chieffi, A. Coc, N. De Sereville, S. Degl'Innocenti, M. Della Valle, M. El Eid, B. Fields, M. Famiano, Z. Fulop, M. Gai, L. Gialanella, F. Hammache, S. Harissopulos, T. Kajino, K.L. Kratz, M. La Cognata, M. Limongi, M. Lipoglavsek, M. Mazzocco, A. Mengoni, J. Mrazek, N. Nishimura, P. Prati, N. Soic, L. Trache, R. Yarmukhamedov.

- **CONTRIBUTIONS BY YOUNG RESEARCHERS**

A number of oral contributions from young researchers will be selected by the SOC. Please send your abstract to [astro2019@lns.infn.it](mailto:astro2019@lns.infn.it) by April 30<sup>th</sup> 2019. The abstract template is available in the school website. Selected speakers will be granted the possibility to give a short talk in special sessions.

- **ACCOMODATION & PAYMENTS**

The organizers encourage the participation of young researchers from Europe and from non-European countries. The number of participants will be strictly limited to 100.

*GRANTS Applicants* are welcome to contact the organizing committee by email at [astro2019@lns.infn.it](mailto:astro2019@lns.infn.it) for pre-registration (see below) or by filling the registration form in the school website. We ask for a registration fee of 300 € (which will cover the school expenses as well social activities as well as the proceedings). Fee for accompanying persons is 100 €.

The venue of the School is the Laboratori Nazionali del SUD, directly located in Catania. Rooms were booked at a special rate by the school secretary in hotels which are available in the charge. Rooms in the LNS guesthouse will be available for students who will receive a grant from the LOC. Buses will pick up conference delegates in "Piazza Stesicoro" about 30' before the start of the morning session every day, and drive back delegates every day at the end of the afternoon session.

A large number of restaurants, full price range and taste, is present in downtown Catania within walking distances from the selected hotels.

Both the registration fee and the accommodation costs have to be paid in advance through the devoted link soon available at the school website.

- **TRAVEL INFORMATIONS**

Catania is connected to many Italian and international airports by frequent flights operated by several airlines. School hotels are located downtown, close to "Piazza Stesicoro".

This square can be reached from the airport using the ALIBUS ([http://www.amt.ct.it/?page\\_id=2610](http://www.amt.ct.it/?page_id=2610)) or by taxi.

- **SOCIAL ACTIVITIES**

Social activities will be organized during the school. It will also be possible to arrange a school trip. A travel agency desk will be present at the hotel to arrange the trip. Further information will be given in the final announcement of the school.

- **IMPORTANT DEADLINES**

Invitation letter for VISA application: 1<sup>st</sup> May 2019

Registration: 30<sup>th</sup> April 2019

Abstract submission: 30<sup>th</sup> April 2019

Hotel booking: 1<sup>st</sup> June 2019.

- **HOSTING INSTITUTIONS AND SPONSORS**

The school is supported by INFN-LNS, Università degli Studi di Catania, ENSAR2-Nusprasen and Centro Siciliano di Fisica Nucleare e Struttura della Materia.

- **SCIENTIFIC COMMITTEE**

C. Spitaleri (Director, Catania), C. Rolfs (Bochum), M. Aliotta (Edinburgh), M. Busso (Perugia), A. Coc (Orsay), M. El Eid (Beirut), T. Kajino (Tokyo), K.L. Kratz (Mainz), S. Kubono (Tokyo), K. Langanke (Darmstadt), J. Josè (Barcelona), T. Motobayashi (Tokyo), A.M. Mukhamedzhanov (TAMU), E. Nappi (Bari), O. Straniero (Teramo), G. Rogachev (TAMU), L. Trache (Bucarest), R.E. Tribble (BNL & TAMU), Wei Liping (CIAE), M. Wiescher (South Bend).

- **LOCAL COMMITTEE**

R.G. Pizzone (chair), G. Agnello, M. La Cognata, S. Romano, R. Spartà, V. Potenza

- **SCIENTIFIC SECRETARY**

L. Lamia, [astro2019@lns.infn.it](mailto:astro2019@lns.infn.it)

- **NEXT ANNOUNCEMENTS**

Final announcement will appear 2 weeks before the school beginning with details about lecturers, subject of lectures and final registration procedures.