

**The 8th European Summer School
on Experimental Nuclear Astrophysics
Santa Tecla, Catania, Italy
13-20 September 2015**

1st Announcement

We have the pleasure to announce the “8th 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/conferenceDisplay.py?confId=8678>

-email: astro2015@lns.infn.it.

- **VENUE**

The school will be held in Santa Tecla, a small sea-shore village 15 Km North of Catania, at the Santa Tecla Palace Hotel (<http://www.hotelsantatecla.it/>), a four stars complex that will offer both double and single rooms, leisure activities, and full board.

- **TIMING**

The school will be held from Sunday, 13th September, to Sunday 20st September. The seven school days include one day for arrivals (13.09.15) and one day for departures (20.09.15). 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, and 2013. Traditionally, particular attention is devoted to the participation of young students of less-favoured countries, especially from the southern coast of the Mediterranean Sea.

- **PRELIMINARY SCIENTIFIC PROGRAM**

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

- **SOCIAL ACTIVITIES**

An excursion to one of the most beautiful Sicilian UNESCO world heritage sites will be planned by the school travel agency. Further information about booking and payment will be given in the next announcements.

- **TRAVEL INFORMATIONS**

Catania has an international airport with connections to Rome and other European airports. On the arrival and departure day, the organization will provide a shuttle service to/from Santa Tecla. Santa Tecla is located on the banks of the Mediterranean sea, in a comfortable and spectacular environment. The hotel has a large lecture hall and many smaller sites for discussions and informal meetings. At the time of the school the weather is ideal in Sicily (around 25° C).

- **SPONSORS**

The school is supported by INFN-LNS and Università di Catania.

- **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, S. Palmerini, V. Potenza, S.M.R. Puglia, G.G. Rapisarda, M.L. Sergi, R. Spatà

- **SCIENTIFIC SECRETARY**

Livio Lamia, astro2015@lns.infn.it

- **NEXT ANNOUNCEMENTS**

Next announcement will appear in April 2015 with details about lecturers, subject of lectures and final registration procedures.