

**The 7<sup>th</sup> European Summer School  
on Experimental Nuclear Astrophysics  
Santa Tecla, Catania, Italy  
15-27 September 2013**

2<sup>nd</sup> Announcement

We have the pleasure to announce the “7<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, and 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.

For such a reason, 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, and indirect methods. Complementary subjects of nuclear astrophysics such as neutron stars, plasma (in stars and the laboratory), short-lived radionuclides will be also covered.

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 three 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: <http://agenda.infn.it/conferenceDisplay.py?confId=5302>
- email: [astro2013@lns.infn.it](mailto:astro2013@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, 15<sup>th</sup> September, to Friday 27<sup>st</sup> September. The twelve school days include one day for arrivals (15.09.13) and one day for departures (27.09.13). 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, and 2011. 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  
Solar Physics  
Neutron Stars  
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 INVITED SPEAKERS**

M. Aliotta, C. Bertulani, D. Bemmerer, J. Blackmon, A. Bonaccorso, N. Burtabayev, C. Brogini, M. Busso, A. Coc, S. Degl'Innocenti, M. El Eid, V. Goldberg, M. Junker, M. Hass, T. Kajino, K. Kratz, S. Kubono, K.H. Langanke, F. Leone, M. Lipoglavsek, G.J. Matthews, G. Meynet, T. Motobayashi, A. Mukhamedzhanov, S. Nishimura, J. Piekarewicz, A. Raduta, G. Rogachev, D. Schurman, M. Smith, L. Trache, R. Tribble(t.b.c.), J. Ursu(t.b.c.), H. Utsunomiva, R. Yarmukhamedhov (t.b.c.), F. Zuccarello

- **SOCIAL ACTIVITIES**

An excursion to one of the most beautiful touristic attractions will be planned by the school travel agency. Further information about booking and payment will be given in the next announcements.

- **ACCOMODATION & PAYMENTS**

The organizers encourage the participation of young researchers from Europe and from non-European countries. The number of participants will be limited to 100. Applicants are welcome to contact the organizing committee by email at [astro2013@lns.infn.it](mailto:astro2013@lns.infn.it) for pre-registration (see below). We ask for a registration fee of 300 € (which will cover the school expenses as well most social activities and shuttle service from/to airport (only on the first and last day of the school) as well as the proceedings book. The venue of the School is the Santa Tecla Palace Hotel, on the shore of the Ionian Sea. Rooms were booked at a special rate by the school secretary. Full board in a double room is 85 € per day (140 € for a single room) only if bookings are made through the school website. Both the registration fee and the accommodation costs have to be paid in advance via the School website

(<http://www.shougun.it/CongressiScheda.aspx?IdCongresso=66&lingua=en>).

- **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).

The transfer from the Catania airport to Santa Tecla (and vice versa) will be arranged by the school organization only on the arrival day (September 15) and on the last day, September 27, in connection with the flights. We invite all registrants to give all the details of their arrival and departure to the school secretary in the registration form (<http://www.shougun.it/CongressiScheda.aspx?IdCongresso=66&lingua=en>).

Participants who require assistance for airport transportation in the other days of the schools are asked to contact the travel agency, in the registration website, to arrange a proper shuttle service (or by email [s.prestifilippo@shougun.it](mailto:s.prestifilippo@shougun.it)). Taxi is another option (<http://www.cataniaintaxi.it> in italian).

- **SOCIAL ACTIVITIES**

Social activities will be organized during the school. It will also be possible to arrange a school trip on Sunday 22<sup>nd</sup>. 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.

- **SPONSORS**

The school is supported by INFN-LNS, Università di Catania (Ph.D. course in Nuclear and Particle Astrophysics).

- **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 (College Station), E. Nappi (Bari), O. Straniero (Teramo), G. Rogachev (Tallahassee), L. Trache (Bucarest), R.E. Tribble (College Station), M. Wiescher (South Bend).

- **LOCAL COMMITTEE**

R.G. Pizzone (chair), G. Agnello, S. Hayakawa, V. Potenza, G.G. Rapisarda, M.L. Sergi

- **SCIENTIFIC SECRETARY**

Livio Lamia, [astro2013@lns.infn.it](mailto:astro2013@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.