

**Sicily – East Asia Workshop on
Low Energy Nuclear Physics
Ortygia island, Siracusa, 28-31 July 2014**

Dear Colleagues,

in the last years an intense collaboration between our groups in the field of low energy nuclear physics, with a very special emphasis on nuclear astrophysics, was established and confirmed by conducting several experiments together. It is our intention to continue and strengthen this collaboration for long years to come.

To this end, we think it is essential to discuss the subjects that will be the focus of our efforts in the next years in an informal but efficient way and to extend this discussion to interested Colleagues that were not involved in previous experiment and researches as well. A very focused workshop of few days will greatly help to fulfill these goals.

During the workshop we will discuss the key physics issue in low energy nuclear physics to be addressed in collaboration experiments to be conducted primarily -but not exclusively- at both CNS/RIKEN and INFN-LNS facilities. Also we should discuss basic ideas on how to perform the proposed experiments and how to manage the needs in terms of equipments, manpower and financial resources that will be necessary to successfully perform them. Last but not least, contributions from theorists will be very welcome and helpful to set new perspectives and goals.

The research themes that we would like to discuss include but are not limited to:

- a) Nuclear processes relevant for astrophysics like quiescent and explosive nucleosynthesis, hot-CNO, primordial nucleosynthesis, AGB stars;
- b) fusion mechanisms at and below the Coulomb barrier with heavy ion beams;
- c) cluster structures in stable and unstable nuclei;
- d) reaction mechanisms;
- e) applications.

VENUE

The Workshop will be held in Siracusa, Sicily, in the building of the School of Architecture (SCA) of the Catania University. This is located on the beautiful island of Ortygia and overlooks the XI century Frederic II castle.

REGISTRATION

The registration to the workshop is made through the Indico system. You can access the workshop page either following the links from the INFN-LNS home page (www.lns.infn.it) or directly accessing the secured INFN agenda page (<https://agenda.infn.it/conferenceDisplay.py?confId=8300>).

Given the informal nature of the meeting, registration is open until July 27.

A registration fee of 75 Euros is requested but it can be waived in a limited number of special cases.

SCHEDULE OF THE WORKSHOP

A morning session, from 9:00 to 12:15, and an afternoon session, from 17:00 to 19:30, will be held in each day of the workshop. A tentative program will be released by mid July.

CONTRIBUTED WORKS

Please submit the abstract of your contributed work (in any usual format, text, pdf, doc and similar) to the SEA workshop by e-mail to this e-mail addresses: sea2014@cns.s.u-tokyo.ac.jp. Please use the following scheme in the subject field of the e-mail: **SEA CONTRIBUTION <your-family-name>**.

SOCIAL PROGRAM

A welcome cocktail will be organized on Sunday 27 July at 19:00. One of the afternoon session will be dedicated to the visit of LNS in Catania. A farewell party is tentatively fixed on July 31 evening.

Excursion in and around Siracusa (some of them with an extra fee) will be organized upon request of the participants and/or accompanying persons.

ACCOMMODATION

Ortigia island offers a variety of accommodations from B&B to luxury hotels. Nonetheless, the period of the workshop is a peak one. So please let us know as soon as possible your desired accommodation if you want us to reserve a hotel for you. In this case, send us an e-mail at the same address as above, writing in the subject field of the e-mail: **SEA ACCOMMODATION <your-family-name>**.

Please specify also your preferred accommodation (e.g. B&B, single room, double room shared with

accompanying person, or double room shared with other participant in the workshop). If you prefer, you can also book an hotel by yourself over the internet

TOURISTIC ATTRACTIONS

Siracusa, Catania and Sicily in general offer a wide variety of touristic attractions during summer period, from various kind of festivals to modern and classical music concert, ballets and opera performances. E.g., on July 26, the famous “Aida” opera by Verdi will be on scene at the Greek theater in Siracusa.

You can find interesting tips visiting <http://www.italia.it/en/discover-italy/sicily.html> and on the regional government web site http://www.regione.sicilia.it/turismo/web_turismo/

TRAVEL TIPS

Catania International Airport “Fontanarossa” is a major airport in Italy and it has connections with many hubs in Italy and in Europe. Many low cost companies offer good services from main airports in Europe. It is located close to the city center of Catania. Its web site is available in English at <http://www.aeroporto.catania.it/?lang=eng>. If you follow the link “Transports” you can get a general overview of the public transportation system from/to the airport to Catania downtown and to the rest of Sicily. Note that the most common public transportation modality in Sicily is BUS not TRAIN as main railroads only go around Sicily and not through Sicily so that the travel time can be quite long. Please take into account that bus timetable are subject to modifications owing to heavy traffic conditions at specific times.

Connections from Catania Airport to Siracusa are provided by **Etna Trasporti SpA** whose web site is available (in italian or google-translated) at www.etnatrasporti.it. PLEASE CONSIDER THAT THE LAST BUS TO SIRACUSA LEAVES THE AIRPORT AT 20:40. If you arrive at Catania Airport later than that time, please let us know in advance and consider spending one night in hotels close to the airport or in downtown Catania.

Transportation by taxis to Catania city center is available but can be quite expensive (20-30 Euros) while the special bus by the metropolitan bus company AMT (www.amt.ct.it) “ALIBUS” (from 5:00 to 24:00 each 20 minutes) goes directly to downtown Catania at city fares (1 Euro or little more, depending on the particular fare type).

Silvio Cherubini

University of Catania and INFN-Laboratori Nazionali del Sud

Hidetoshi Yamaguchi

Center for Nuclear Study, University of Tokyo

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