



Conference on Neutrino and Nuclear Physics

Catania (Italy) October 15 -21, 2017

FIRST CIRCULAR

The International Conference on Neutrino and Nuclear Physics 2017 (CNNP2017) will be held in Catania (Italy) on **October 15-21, 2017**.

This circular will also be available on the conference web site:

<http://agenda.infn.it/event/CNNP2017>

Conference Host and Venue

The CNNP2017 conference is hosted jointly by the Istituto Nazionale di Fisica Nucleare - Laboratori Nazionali del Sud and the University of Catania. The scientific sessions will be held downtown, at the baroque Benedictine Monastery, located in Piazza Dante, 32 - Catania.

Scope and Scientific Program

The main objective of CNNP2017 is to promote a collaborative framework of researchers from the fields of nuclear, neutrino, astro and dark-matter physics, to discuss experiments and theories in which nuclear physics aspects are particularly relevant. At present, nuclear structure plays an ever growing role in the mentioned fields of fundamental physics, but still a lot needs to be done. The overlap between different communities is an unavoidable, despite demanding, feature in order to face several challenges of modern fundamental physics. The sharing of different experimental and theoretical techniques and the exchange of technical experiences and know-how are perhaps the best resource to build a unified view of the afore mentioned scientific problems. In this context, it is of utmost importance to allow people working at the intersections of these fields to meet regularly to exchange ideas and results. For this reason, the CNNP2017 aims at evolving in the long term into a periodic meeting.

The list of the topics to be developed during the Conference is given below:

- Nuclear double beta decays
- Nuclear structure in connection with neutrino physics

- Nuclear reactions as a probe for weak decays
- Neutrino-nucleus interaction at low and high energy
- Supernova models and detection of supernova neutrinos
- Solar models and detection of solar neutrinos
- Direct and indirect dark-matter searches
- Rare beta decays of nuclei for neutrino-mass measurements
- Neutrino oscillations and matter effects
- Anomalies in reactor neutrinos
- New related detection technologies

Format

The format of the Conference consists of invited talks, in plenary and parallel sessions, and contributed talks, selected among the abstracts submitted by the participants and presented in parallel sessions. A poster session will be also organized. The best presentations among the contributions and the best posters will be awarded.

Abstract Submission

The CNNP2017 abstract submission page is available at the conference website:

<http://agenda.infn.it/event/CNNP2017>

The deadline for abstract submission is May 31, 2017.

The selection of oral and poster presentations will be notified before July 15, 2017.

Conference Proceedings

Contributions, including posters, will be published, after peer review, in electronic version in open access ISI, Scopus indexed journals.

Social Activities and Excursions

A Welcome Reception will be held in the evening of October 15 at Foyer of Teatro Massimo Bellini.

The Conference Banquet will be at Palazzo Biscari, historic building in imperious baroque style, based on sixteenth century walls of Catania, on Oct. 19. The cost per person is 50 €.

An evening guided tour at the Castello Ursino site will be organized on Oct. 16.

Guided excursions to Catania, Siracusa or Taormina historic sites will be arranged on Oct. 18, in the afternoon.

A limited number of tickets for the “Don Giovanni ” Opera at Bellini Theatre at the reduced cost of 38 € are available on Oct. 17 evening on the basis of first-come first-served, for participants who reserve it in the registration form.

Guided tours at the Benedictine Monastery will be arranged for participants at the cost of 5€ on Oct. 16-17-18 and 21, for a maximum of 25 persons per tour. The tour will go through the most important spaces of the baroque Benedictine Monastery: the two cloisters, the cellars of the XVI century, today transformed into the faculty library, the roman domus (house), the ‘Night Choir’ with its ‘balcony’ on the main altar of San Nicolò the Arena Church, the Novices Garden and the kitchen and cellars of the XVIII century, realised by the architect Vaccarini.

Registration

Online registration is open at the following link:

<http://agenda.infn.it/event/CNNP2017> and will close on Sep, 20, 2017.

The full registration fee amounts to 520 €. Students (undergraduate and PhD) are eligible for a reduced registration fee of 350 €. Early fees, to be paid before June 15, 2017, are reduced as shown in the table below.

	Payment before	Payment after
	15-Jun 2017	15-Jun 2017
Participants	450 €	520 €
Students	350 €	350 €
Accompanying Persons	100 €	150 €

The Conference Fee will cover the Welcome reception, coffee breaks and lunches, social excursion, evening guided tour at Castello Ursino site, transport for the visit of INFN Laboratori Nazionali del Sud and the “Poster Prize Dinner”, conference package and proceedings.

The accompanying person fee includes:

- Welcome Reception
- Social excursion
- Evening guided tour at Castello Ursino
- “Poster Prize Dinner” at INFN-LNS
- Guided tour at the baroque Benedictine Monastery
- Tour at the Archaeology Museum of the Catania University

A list of other activities will be available for accompanying persons during the Conference.

Preliminary list of invited speakers

- Akimune H. RCNP, Osaka University, Japan
- Aprile E. Columbia University, USA
- Balantekin B. University of Wisconsin, USA
- Barea J. Universidad de Concepcion, Chile
- Bernabei R. INFN - Roma2, Roma, Italy
- Blaum K. Max Planck Institute, University of Heidelberg, Germany
- Cavanna F. Fermilab, Batavia, USA
- Chen S. Tsinghua University, Beijing, China
- Civitarese O. National University of La Plata, Argentina
- Cortesi M. Michigan State University, USA
- Cremonesi O. Milano Bicocca, Italy
- Danevich F. INR, Kyiv, Ukraine
- Ejiri H. RCNP, Osaka University, Japan
- Faessler A. Tuebingen University, Germany
- Formaggio J. Massachusetts Institute of Technology, Cambridge, USA
- Frekers D. University of Muenster, Germany
- Fujita Y. RCNP, Osaka University, Japan

- Giunti C. INFN-To, Torino, Italy
- Gondolo P. University of Utah, USA
- Gratta G. Stanford University, USA
- Horoi M.* Central Michigan University, USA
- Iachello F. Yale University, USA
- Janka T. Max Planck Institute, Garching, Germany
- Kajino T. University of Tokyo, Japan
- Krasznahorkay A. Hungarian Academy of Sciences, Hungary
- Lahav O. University College London, UK
- Lenske H. Giessen University, Germany
- Lindner M. Max Planck Institute for Nuclear Physics, Heidelberg, Germany
- Martini M. University of Ghent, Belgium
- McLaughlin G. North Carolina State University, Raleigh, USA
- Nucciotti A. University of Milano Bicocca, Italy
- Pallavicini M. University of Genova and INFN, Italy
- Petcov S.* SISSA Trieste, Italy
- Potel G. Michigan State University, USA
- Ranucci G. INFN-Milano, Italy
- Saakyan R. University College, London, UK
- Schoenert S. Technical University of Muenchen, Germany
- Scholberg K. Duke University, USA
- Serenelli A. Institute of Space Sciences, Bellaterra, Spain
- Shimoura S.* Tokyo University, Tokyo, Japan
- Simkovic F. Comenius University in Bratislava, Slovakia
- Smirnov A. ICPT, Trieste, Italy and Max Planck Institute for Nuclear Physics, Germany
- Smirnov O. JINR, Dubna, Russia
- Suhonen J. Jyvaskyla University, Finland
- Van Elewyck V. Paris Diderot University, Paris, France
- Virtue C. Laurentian University, Sudbury, Canada
- Vissani F. GSSI and INFN-LNGS, L'Aquila Italy
- Volpe C. IN2P3, IPN-Orsay, France
- Weinheimer C. University of Muenster, Germany
- Zuber K. TU Dresden, Germany

* to be confirmed

Conference Organization

International Advisory Committee

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 Broglia Ricardo A. (Niels Bohr Institute, Denmark)

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All correspondence and requests for further information concerning the conference should be sent to the conference e-mail address: cnnp2017@lns.infn.it.

We look forward to seeing you in Catania,

The CNNP2017 Organizing Committee