



# NUINT12: Eighth International Workshop on Neutrino-Nucleus Interactions in the Few-GeV Region

22-27 October 2012

Rio de Janeiro, Brazil

<https://indico.fnal.gov/event/NUINT12>

## SECOND ANNOUNCEMENT

NUINT12 is the eighth in a series of workshops concentrating on low-energy, neutrino-nucleus interactions. The goal of the whole series is to bring theorists and experimentalists from the nuclear and high-energy community together to address the many challenges to understanding these complex interactions. This edition will be the first in Latin America, showing the scientific growth of the field.

After reviewing the motivation for these studies and the ongoing experimental efforts, the topic of nuclear effects will be introduced and each of the neutrino-nucleus scattering channels that contribute in the low-energy regime will be covered.

Recent scattering results from oscillation experiments as well as the potential of experiments specifically designed to study these interactions will be discussed. The work of both nuclear and high-energy theorists to provide improved theoretical descriptions of these channels will also be reviewed.

Except for posters all presentations are by invitation only. Registration is open.  
For more information go to our web page

<https://indico.fnal.gov/event/NUINT12>

## NUINT12 SESSIONS AND ORGANIZERS

### Electron scattering and Meson exchange currents

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### CC and NC quasi-elastic scattering

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### Pion production and other inelastic processes

Michel Sorel (Valencia, Spain) [sorel@fna1.gov](mailto:sorel@fna1.gov)  
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### Deep and shallow inelastic scattering, quark hadron duality

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### Systematic effects on CP violation measurements

Tsuyoshi Nakaya (Kyoto, Japan) [t.nakaya@scphys.kyoto-u.ac.jp](mailto:t.nakaya@scphys.kyoto-u.ac.jp)  
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### Confronting theory and experiments, event simulators

Jan Sobczyk (Wroclaw, Poland) [jsobczyk@ift.uni.wroc.pl](mailto:jsobczyk@ift.uni.wroc.pl)  
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### Very low energy neutrino interactions

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Kate Scholberg (Duke, USA) [schol@phy.duke.edu](mailto:schol@phy.duke.edu)

### Future experiments

Steven Boyd (Warwick, UK) [S.B.Boyd@warwick.ac.uk](mailto:S.B.Boyd@warwick.ac.uk)  
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Morgan Wascko (Imperial College London, UK) [m.wascko@imperial.ac.uk](mailto:m.wascko@imperial.ac.uk)

### Path forward and future prospects

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Xavier Bertou (CNEA/CONICET, Argentina) [bertou@gmail.com](mailto:bertou@gmail.com)

### Poster session

Makoto Sakuda (Okayama, Japan) [sakuda@fphy.hep.okayama-u.ac.jp](mailto:sakuda@fphy.hep.okayama-u.ac.jp)  
Mike Kordosky (William and Mary, USA) [makordosky@wm.edu](mailto:makordosky@wm.edu)

### Secretariat:

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## WORKSHOP VENUE

NuInt12 will be hosted by the Brazilian Center for Physics Research (CBPF) in Rio de Janeiro, Brazil. All presentation will be at the Ministro João Alberto Lins de Barros auditorium.

CBPF  
Rua Dr. Xavier Sigaud 150  
Urca - Rio de Janeiro - RJ

CBPF is located in a busy and pleasant neighborhood close to historical and tourist areas like the Sugarloaf mountain, praia Vermelha and Copacabana. Important shopping areas are only about a five minute walk from CBPF with a large variety of stores, restaurants, cafes, cinemas, iceskating rings, bookstores and more. There is plenty of transportation that can take you to any area of the city.

Tourist Information on Rio may be found at [www.rioguiaoficial.com.br](http://www.rioguiaoficial.com.br) (available in Portuguese, English and in Spanish).

## CHAIRS

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