

NUINT 2024
International Workshop on
Neutrino-Nucleus Interactions in the Few-GeV Region
A NUSTEC conference

São Paulo, Brazil
15-20 April 2024

THIRD ANNOUNCEMENT

Dear Colleagues, NuInt24 is the fourteenth in a series of workshops concentrating on low-energy, neutrino-nucleus interactions. The goal of this series is to bring theorists and experimentalists from the nuclear and highenergy communities together to address the many challenges to understanding these complex interactions. This will be the second edition in Latin America, showing the scientific growth of this field. NUINT24 is jointly organized by the University of Campinas (UNICAMP) and the Brazilian Center for Research in Physics (CBPF) . It has the support of Instituto Principia and the International Center of Theoretical Physics-South American Institute of Fundamental Research (ICTP-SAIFR).

Registration is open. Some limited funds are available to support a few participants with preference given to students. Deadline to request financial support is February 29 2024. Visit NUINT 2024 webpage (<https://indico.fnal.gov/e/NUINT24>) for details and deadlines.

NuSTEC Workshop : NuInt2024 Primer

We invite you to join the 3-days NuSTEC workshop that will take place from April 11–13 2024, immediately before the main NUINT 24 event and at the same location.

The workshop is mainly aimed at students and junior postdocs and will provide an overview of the current status of neutrino-nucleus scattering, highlighting both experimental and theoretical aspects of the field.

The program will include lectures on nuclear models and nuclear effects in neutrino-nucleus scattering, the connection between neutrino interaction studies and oscillation physics, and cross section measurements. Special attention will be paid to the use of generators, including sessions with hands-on exercises. Visit NUINT 2024 webpage (<https://indico.fnal.gov/e/NUINT24>) for details and deadlines.

NUINT 2024 sessions and conveeners

Session1:Neutrino flux predictions and measurements

Katsuya Yonehara (Fermilab)

Laura Fields (Notre Dame University)

Megan Friend (KEK)

Session 2: Neutrino interaction generators

Yoshinari Hayato (ICRR, The University of Tokyo)

Julia Tena-Vidal (Tel Aviv University)

Pedro Machado (Fermilab)

Session 3: $QE + 2p2h / 0\text{-}\pi$ production (T+E)

Stephen Dolan (CERN)

Joanna Sobczyk (Johannes Gutenberg University)

Saori Pastore (Washington University in Saint Louis)

Richard Gran (University of Minnesota Duluth)

Session 4: Pion Production/SIS/DIS

Minoo Kabirnezhad (Imperial College London)

Mohammad Sajjad Athar (Aligarh Muslim University)

Laura Munteanu (CERN)

Kirk Bays (Minnesota)

Session 5: Low-energy neutrino scattering (T+E)

Bryce Littlejohn (Illinois Institute of Technology)

Maria Cristina Volpe (APC/CNRS)

Claudia Nones (CEA/IRFU)

Raimund Strauss (TUM)

Session 6: Charged lepton and pion scattering (T+E)

Adi Ashkenazi (Tel Aviv University)

Camilo Mariani (Virginia Tech)

Artur Ankowski (Wroclaw)

Session 7: Impact of scattering uncertainties on measurements (T+E)

Callum Wilkinson (Lawrence Berkeley National Laboratory)

Linda Cremonesi (Queen Mary University of London)

Luke Pickering (STFC UKRI)

We are looking forward to meeting you in São Paulo this coming April 2024.