ECT*

EUROPEAN CENTRE FOR THEORETICAL STUDIES IN NUCLEAR PHYSICS AND RELATED AREAS

TRENTO, ITALY

Institutional Member of the European Expert Committee NUPECC

Castello di Trento ("Trint"), watercolor 19.8 x 27.7, painted by A. Dürer on his way back from Venice (1495). British Museum,

Modeling neutrino-nucleus interactions

Trento, July 9-13, 2018

Main topics

Neutrino energy reconstruction in oscillation experiments
Quasi-elastic and pion/Delta dynamics in nuclei
Connection between electron and neutrino scattering
Implementation of two-particle two-hole models in Monte Carlo generators
Pion production and absorption in MC generators
New mathematical tools for MC generation
Final state interactions models

Keynote participants

L.Alvarez Ruso (*Instituto de Física Corpuscular (IFIC)*), C.Barbieri (*University of Surrey*), O.Benhar (*INFN and Sapienza University*), J.A.Caballero (*University of Sevilla*), S.Dolan (*Laboratoire Leprince-Ringuet and CEA Saclay*), T.W.Donnelly (*Massachusetts Institute of Technology*), R.Gran (*University of Minnesota Duluth*), Y.Hayato (*Kamioka obs., ICRR, The University of Tokyo*), C.Horowitz (*Indiana University*), T.Katori (*Queen Mary University of London*), K.Mahn (*Michigan State University*), K.McFarland-Porter (*University of Rochester*), G.D.Megias (*University of Seville and CEA-Irfu*), G.Miller (*University of Washington*), K.Niewczas (*Ghent University*), A.Nikolakopoulos (*Ghent University*), G.Perdue (*Fermi National Accelerator Laboratory*), K.Sobczyk (*Wroclaw University*), L.Weinstein (*Old Dominion University*)

Organizers

Maria Barbaro (*Turin University*), Natalie Jachowicz (*Gent University*), Deborah Harris (*Fermilab*), Ulrich Mosel (*Universität Giessen*), Federico Sanchez (*Institut de Fisica d'Altes Energies& Barcelona Institute of Science and Technology*)

Director of the ECT*: Professor Jochen Wambach (ECT*)

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For local organization please contact: Ines Campo - ECT* Secretariat - Villa Tambosi - Strada delle Tabarelle 286 - 38123 Villazzano (Trento) - Italy
Tel.:(+39-0461) 314721 Fax:(+39-0461) 314750, E-mail: **inecampo@ectstar.eu or visit http://www.ectstar.eu**