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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,

Determination of the absolute electron (anti)-neutrino mass

Trento, March 26-30, 2018

Main Topics

- Theory and phenomenology of neutrino masses
- Neutrino mass in physics beyond the standard model and cosmology
- Challenges in H-3 based experiments
- Challenges in Ho-163 based experiments
- Prospects of cosmic neutrino background detection
- Direct searches for sterile neutrinos at the eV and keV scale

Keynote participants

J. Behrens (KIT, Germany), S. Boeser (University of Mainz, Germany), C. Brofferio (Università Milano Bicocca, Italy), A. Cocco (INFN Napoli, Italy), A. De Rujula (CERN, Switzerland), H. Dörrer (University of Mainz, Germany), G. Dexlin (KIT, Germany), S. Eliseev (MPIK Heidelberg, Germany), A. Faessler (University of Tübingen, Germany), M. Faverzani (Università Milano Bicocca, Italy), F. Fränkle (KIT, Germany), G. Gallucci (INFN Genova, Italy), C. Giunti (INFN Torino, Italy), S. Hannestad (Aarhus University, Denmark), C. Hassel (KIP, Heidelberg University, Germany), M. Haverkort (ITP, Heidelberg University, Germany), S. Kempf (KIP, Heidelberg University, Germany), K. Koehler (LANL, USA), T. Lasserre (CEA, France & TUM, Germany), F. Mantegazzini (KIP, Heidelberg University, Germany), S. Mertens (MPP & TUM, Munich, Germany), D. Parno (Carnegie Mellon University, USA), A. Puiu (Università Milano Bicocca, Italy), M. Rabin (LANL, USA), P. Ranitzsch (Münster University, Germany), W. Rodejohann (MPIK, Heidelberg, Germany), L. Saldana (Yale University, USA), M. Schlösser (KIT, Germany), E. Sellentin (University of Geneva, Switzerland), F. Simkovic (University of Bratislava, Czech Republic), M. Slešák (MPP, Munich, Germany), N. Steinbrink (Münster University, Germany), T. Thümmler (KIT, Germany), C. Tully (Princeton University, USA), F. Vissani (LNGS & GSSI, Italy), K. Wendt (University of Mainz, Germany)

Organizers

Loredana Gastaldo (KIP, Heidelberg University, Germany), Kathrin Valerius (KIT, Germany)

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

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