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,

Exploring the role of electro-weak currents in Atomic Nuclei

Trento, April 23-27, 2018

Main topics

Relative importance of nuclear interactions, correlations, and electro-weak currents
Electron/neutrino scattering
Electro-weak reactions of few-nucleon systems
Microscopic origin of effective charges and g-factors in atomic nuclei
Quenching of Gamow-Teller matrix elements and neutrinoless double beta decay
Effects beyond standard model and fundamental symmetries

Keynote speakers

Sonia Bacca (*Johannes Gutenberg Uni Mainz, Germany*), Nir Barnea (*The Hebrew Uni of Jerusalem, Israel*), Mark Bissell (*The Uni of Manchester, UK*), Klaus Blaum (*Max-Planck-Institut für Kernphysik, Germany*), Joe Carlson (*LANL, USA*), Vincenzo Cirigliano (*LANL, USA*), Evgeny Epelbaum (*Ruhr-Uni Bochum, Germany*), Kieran Flanagan (*The Uni of Manchester, UK*), Doron Gazit (*Racah Institute of Physics, Israel*), Reyco Henning (*Uni of North Carolina at Chapel Hill, USA*), Teppei Katori (*Queen Mary Uni of London, UK*), Alessandro Lovato (*TIFPA-INFN Trento, Italy*), Joel Lynn (*TU Darmstadt, Germany*), Javier Menendez (*Center for Nuclear Study, Tokyo, Japan*), Petr Navratil (*TRIUMF, Canada*), Gerda Neyens (*CERN / KU Leuven, Switzerland*), Saori Pastore (*LANL, USA),* Rocco Schiavilla (*Old Dominion Uni/Jefferson Lab, USA*), Achim Schwenk (*TU Darmstadt, Germany*), Ingo Sick (*Uni of Basel, Switzerland*), Toshimi Suda (Research *Center for Electron-Photon Science, Japan*), Javier J. Valiente Dobon (*INFN Padova, Italy*), Kyle Wendt (*Lawrence Livermore National Laboratory, USA*)

Organizers

Stefano Gandolfi (*LANL, USA*), Ronald Fernando Garcia Ruiz (*CERN, Switzerland/ The Uni of Manchester, UK*), Gaute Hagen (*ORNL/The Uni of Tennessee, USA*), Jason Holt (*TRIUMF - Vancouver, Canada*), Alexandre Obertelli (*TU Darmstadt, Germany*)

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

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