



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,

New Ideas in Constraining Nuclear Forces

Trento, June 4-8, 2018

Main topics

Current limitations of nuclear Hamiltonians

Improving two- and many-body nuclear forces with novel fitting strategies and higher orders in chiral EFT

Constraining nuclear forces with few- and many-body observables

Power counting: Beyond Weinberg (?)

Constraining nuclear forces from lattice QCD calculations

Keynote participants

C. Barbieri (*University of Surrey*), Z. Davoudi (*University of Maryland*), J.R. de Elvira (*University of Bern*),
E. Epelbaum (*Ruhr-University Bochum*), C. Forssen (*Chalmers University of Technology*), H. Griebhammer (*The George Washington University*), S. König (*TU Darmstadt*), D. Lee (*Michigan State University*), U.-G. Meißner (*University of Bonn*),
M. Piarulli (*Argonne National Laboratory*), A. Roggero (*Los Alamos National Laboratory*), A. Schwenk (*TU Darmstadt*),
S.R. Stroberg (*Reed College*), U. van Kolck (*IPN Orsay*), S. Wesolowski (*Salisbury University*)

Organizers

Joel E. Lynn (*TU Darmstadt*), Ingo Tews (*Institute for Nuclear Theory, University of Washington*),
Jason D. Holt (*TRIUMF*), Andreas Ekström (*Chalmers University*)

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

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