

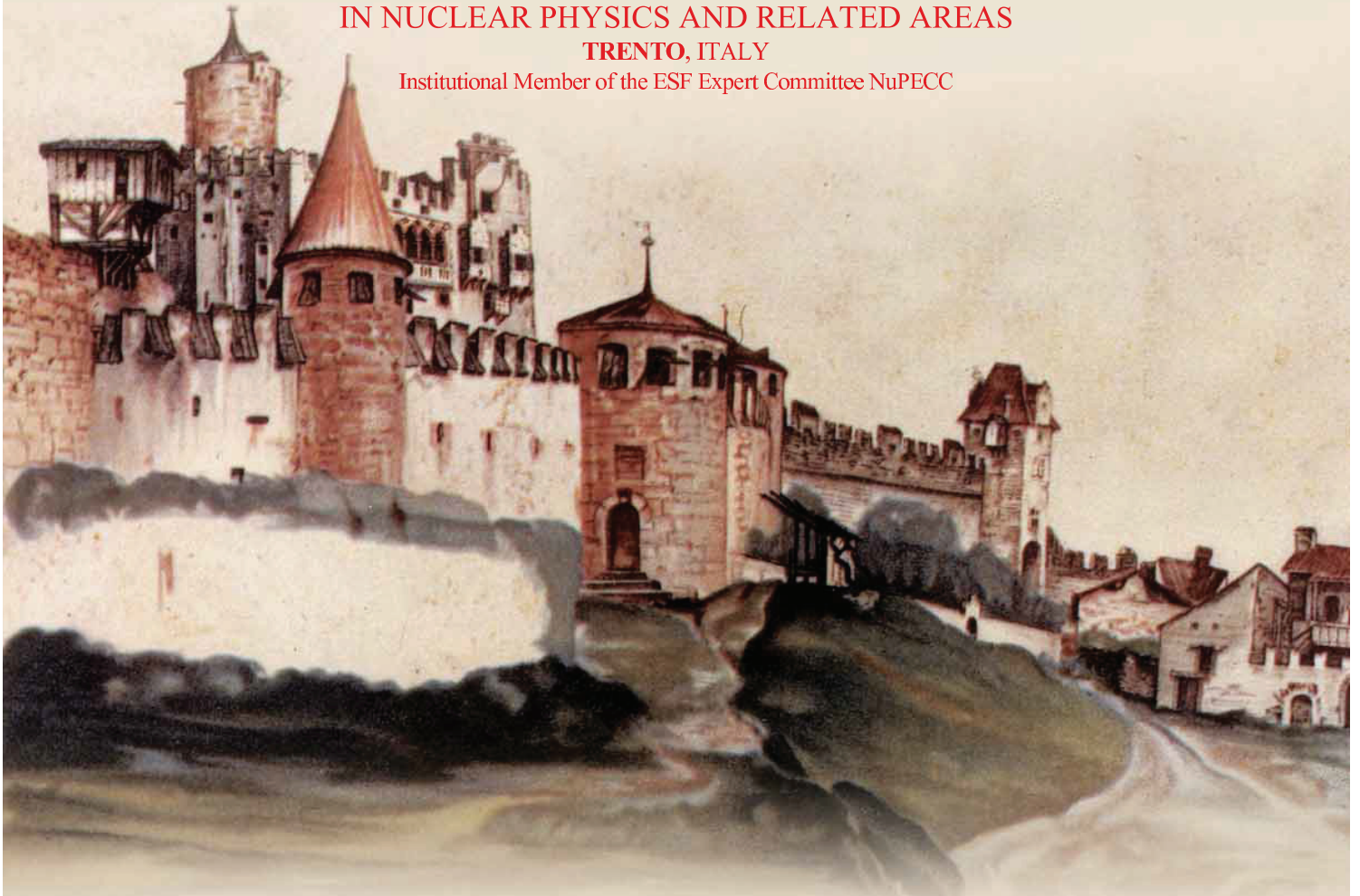


ECT*



EUROPEAN CENTRE FOR THEORETICAL STUDIES IN NUCLEAR PHYSICS AND RELATED AREAS TRENTO, ITALY

Institutional Member of the ESF Expert Committee NuPECC



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

British Museum, London.

COLD ATOMS MEET HIGH ENERGY PHYSICS

Trento, June 22-25, 2015

Main Topics

Spontaneously broken symmetries, abelian and non abelian gauge fields, supersymmetries, Fulde-Ferrel-Larchin-Ochinokov phase, Superfluidity in strongly interacting Fermi systems, High density QCD and bosonic superfluidity, quantum hydrodynamics, Kibble-Zurek mechanism, SU(N) configurations, quantum simulation of quark confinement, magnetic monopoles, Majorana Fermions, role of extra dimensions, lattice QCD, Black holes, Hawking radiation, Higgs excitations in cold atoms, AdS/CFT correspondence, Efimov states, instantons

Key Participants

Roberto Balbinot (*Bologna*), Michael Baranov (*Innsbruck*), Andrea Cappelli (*Firenze*), Iacopo Carusotto (*Trento*), Roberto Casalbuoni (*Firenze*), Leonardo Fallani (*Firenze*), Francesca Ferlaino (*Innsbruck*), Gabriele Ferrari (*Trento*), Margarita Garcia Perez (*Madrid*), Jason Ho (*Columbus, Ohio*), Kenichi Konishi (*Pisa*), Manuel Endres (*Harvard*), Simone Montangero (*Ulm*), Muneto Nitta (*Keio University*), Giorgio Parisi (*Roma*), Saverio Pascazio (*Bari*), Christophe Salomon (*LKB-ENS Paris*), Augusto Smerzi (*Firenze*), Luca Tagliacozzo (*ICFO Barcelona*), Andrea Trombettoni (*SISSA Trieste*), Ettore Vicari (*Pisa*), Erez Zohar (*Munich*), Peter Zoller (*Innsbruck*), Willi Zwerger (*Munich*), Martin Zwierlein (*MIT*)

Organizers

Massimo Inguscio (*LENS Firenze and INRIM Torino*), Guido Martinelli (*SISSA Trieste*), Sandro Stringari (*Trento*)



Director of the ECT*: Professor Wolfram Weise (ECT*)



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