



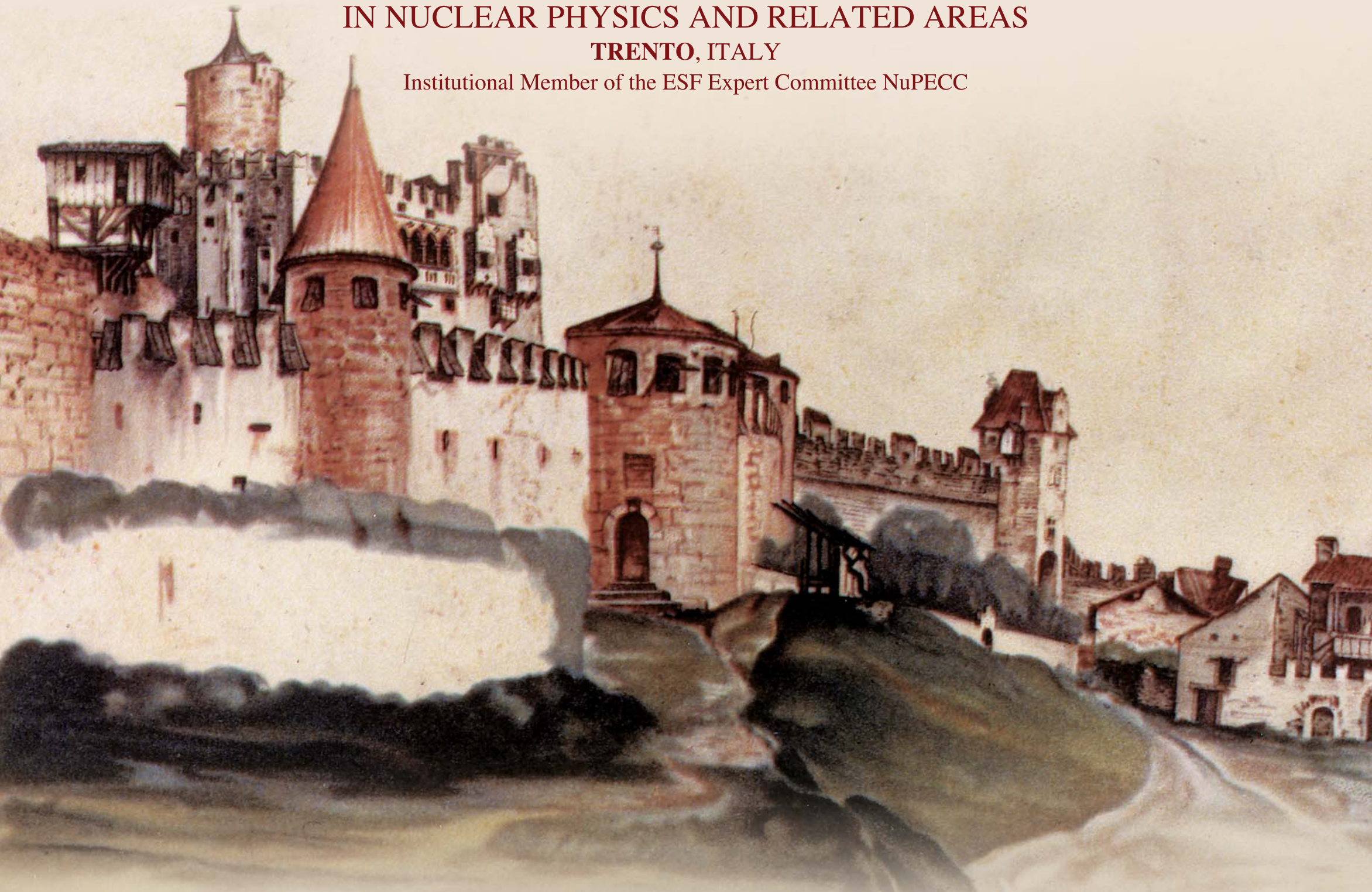
# ECT\*



## EUROPEAN CENTRE FOR THEORETICAL STUDIES IN NUCLEAR PHYSICS AND RELATED AREAS

TRENTO, ITALY

Institutional Member of the ESF Expert Committee NuPECC



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

British Museum, London.

## Advances in time-dependent methods for quantum many-body systems Trento, October 14 - 18, 2013

### Main Topics

*General aspects of time-dependent quantum many-body dynamics*  
*Non-equilibrium Green's functions*  
*Multi-configuration time-dependent Hartree-Fock*  
*Time-dependent coupled cluster theory*  
*Stochastic mean-field dynamics*  
*Gaussian phase-space representation*  
*Lindblad dissipative dynamics*  
*Exact methods in many-body theory*

### Key speakers include

M. Bonitz (*University of Kiel*), A. Bulgac (*University of Washington*), W. Cassing (*University of Giessen*), J. Corney (*University of Queensland*), A. Daley (*University of Pittsburgh*),  
A. Diaz-Torres (*ECT\**), T. Gasenzer (*University of Heidelberg*), A. Harju (*Aalto University*), J. Maruhn (*University of Frankfurt*), T. Nakatsukasa (*RIKEN*), T. Papenbrock (*University of Tennessee*),  
M. Rigol (*Georgetown University*), A. Rubio (*University of the Basque Country and Fritz Haber Institut, MPG*), J. Ruostekoski (*University of Southampton*),  
P. Saalfrank (*University of Potsdam*), C. Simenel (*CEA Saclay*), P. D. Stevenson (*University of Surrey*), R. van Leeuwen (*University of Jyväskylä*),  
C. Verdozzi (*Lund University*), K. Yabana (*University of Tsukuba*)

### Organizers

A. Rios Huguet (*University of Surrey, U.K.*)  
P. Danielewicz (*Michigan State University, USA*)

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



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