

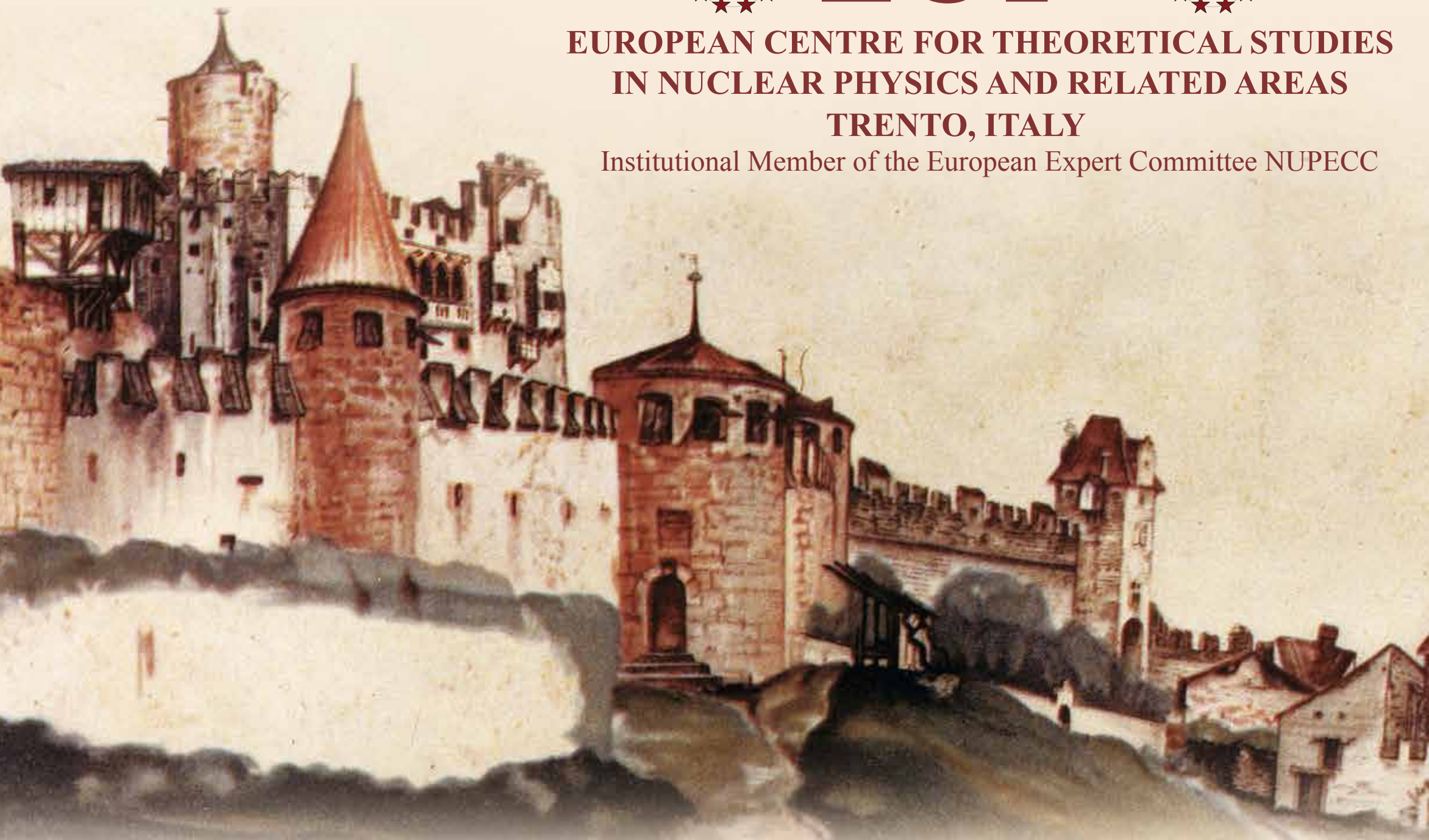


# ECT\*



## 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, London

## Unraveling the complexity of nuclear systems: single-particle and collective aspects through the looking glass

Trento, February 6-10, 2017

### Main Topics

Ground-state properties within EDF-based and ab initio models;  
Shell effects, shape coexistence, spontaneous symmetry breaking and restoration;  
Low-lying excitations and giant resonances: onset of collectivity;  
Spectroscopic tools;  
Recent progress in direct nuclear reaction theory;  
Interface between nuclear structure and reaction models;  
Relevant physics cases for key experiments (to be examined during dedicated discussion sessions / round tables).

### Key note speakers (\*to be confirmed)

Thomas Aumann\* (*Darmstadt*), Virgil Baran (*Bucharest*), Francisco Barranco (*Sevilla*), Michael Bender\* (*Lyon*), Angela Bonaccorso (*Pisa*),  
María José García-Borge (*CERN*), Manuela Cavallaro (*Catania*), Fabio Crespi (*Milano*), Pierre Descouvemont (*Brussels*), Thomas Duguet\* (*Saclay*),  
Danilo Gambacurta (*Bucharest*), Edoardo Lanza (*Catania*), José Antonio Lay (*Catania*), Hoazhao Liang (*Riken*),  
Elena Litvinova (*Western Michigan*), Filomena Nunes (*East Lansing*), Alexandre Obertelli (*Saclay*), Nigel Orr (*Caen*), Alessandro Pastore (*York*),  
Tomás Rodríguez\* (*Madrid*), Luis Robledo (*Madrid*), Xavier Roca-Maza (*Milano*), Vittorio Somà (*Saclay*), Nadia Tsoneva\* (*Giessen*),  
Olivier Sorlin (*Caen*), Masaki Sasano (*Riken*), Andrea Vitturi\* (*Padova*).

### Organizers

Pierre Capel (*Brussels University*) pierre.capel@ulb.ac.be / Gianluca Colò (*Milano University*) gianluca.colò@mi.infn.it  
Maria Colonna (*LNS-Catania*) colonna@lns.infn.it / Marcella Grasso (*IPN Orsay*) grasso@ipno.in2p3.fr  
Denis Lacroix (*IPN Orsay*) lacroix@ipno.in2p3.fr / Antonio M. Moro (*Univ. Sevilla*) moro@us.es

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

The ECT\* is sponsored by the "Fondazione Bruno Kessler" in collaboration with the "Assessorato alla Cultura" (Provincia Autonoma di Trento), funding agencies of EU Member and Associated States and has the support of the Department of Physics of the University of Trento.

For local organization please contact: Gianmaria Ziglio - ECT\* Secretariat  
Villa Tambosi - Strada delle Tabarelle 286 - 38123 Villazzano (Trento) - Italy  
Tel.:(+39-0461) 314721 Fax:(+39-0461) 314750, E-mail: [ect@ectstar.eu](mailto:ect@ectstar.eu) or visit <http://www.ectstar.eu>

