



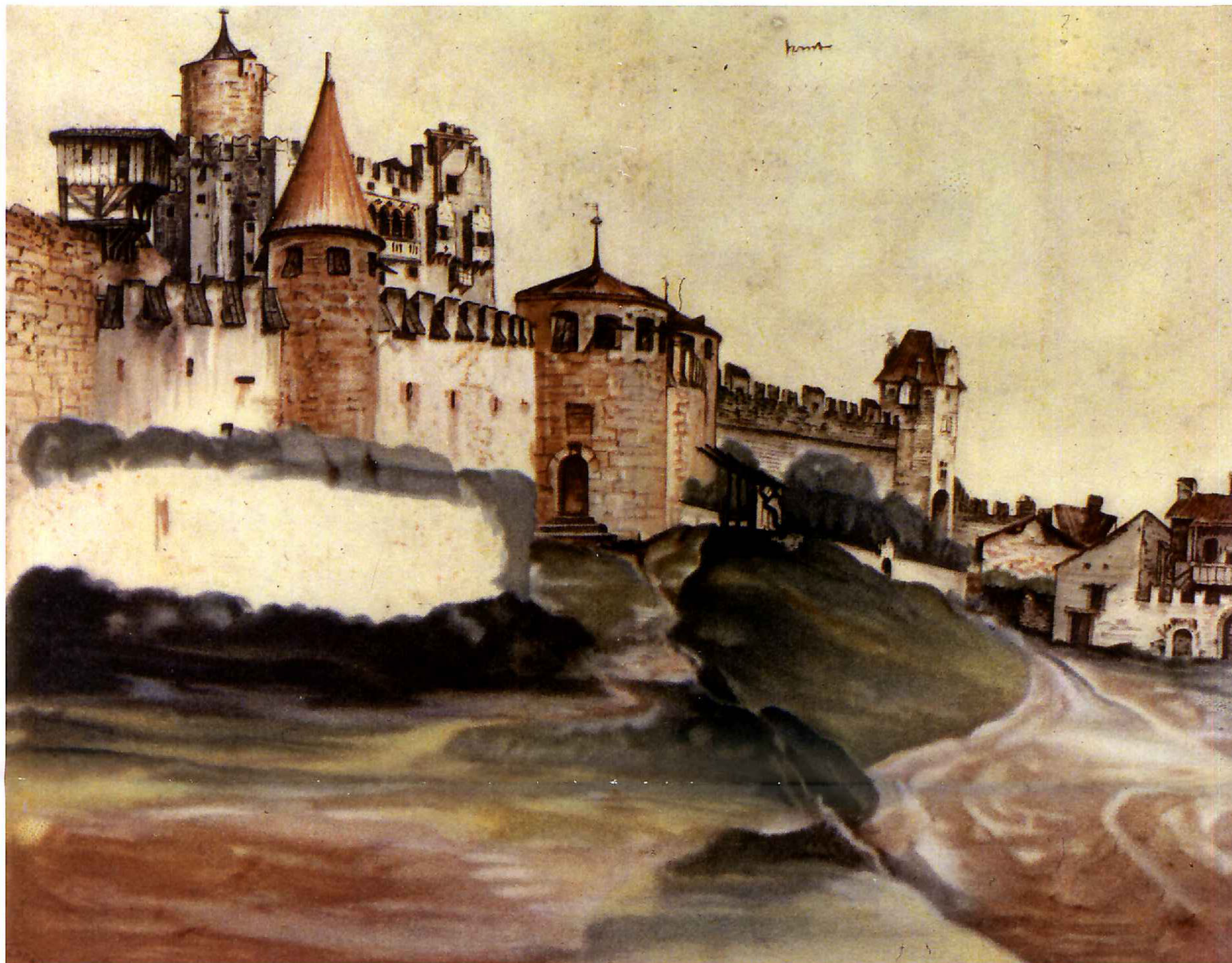
# ECT\*



## 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)

C. British Museum, London.

## Institutional Member of the ESF Expert Committee NuPECC

# Correlations in nuclei: beyond mean-field and shell model

### 4-8 June, 2007

#### MAIN TOPICS

- correlations from exact diagonalization: shell model, truncation of the model space, coupled cluster methods, exactly solvable models
- correlations in and beyond the self-consistent mean-field: generator coordinate methods, symmetry restoration, treatment of pairing correlations
- correlations in the nuclear medium: construction of effective interactions for the shell model and mean-field-based approaches
- experimental and theoretical meaning of single-particle energies and the role of the tensor force
- other signatures of correlations: spectroscopic and transition moments

#### KEY SPEAKERS

Karim Bennaceur (IPN Lyon), Jean-Francois Berger (CEA Bruyeres-le-chatel), Alex Brown (Michigan State University), Etienne Caurier (Strasbourg), Hubert Flocard (CSNSM Orsay), Heloise Goutte (Bruyeres-le-chatel), Rolf-Dietmar Herzberg (Liverpool), Kris Heyde (Gent), Mihai Horoi (Central Michigan University), Morten Hjorth-Jensen (Oslo), Calvin Johnson (San Diego), Denis Lacroix (Caen), Gerda Neyens (Leuven), Tamara Niksic (Zagreb), Frederic Nowacki (Strasbourg), P.-G. Reinhard (Erlangen), Wojtek Satula (Warsaw), Olivier Sorlin (GANIL), Dario Vretenar (Zagreb), Andres Zuker (Strasbourg).

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