



# **ECT\* Doctoral Training Programme 2017**

Trento, June 12-30

## Microscopic Theories of Nuclear Structure, Dynamics and Electroweak Currents

#### **Programme Coordinator**

Omar Benhar (INFN and Università La Sapienza)

#### **Students' Coordinator and Advisor**

Georges Ripka (Saclay and ECT\*)

#### **Lecturers and topics**

Carlo Barbieri (University of Surrey, UK)

**Omar Benhar** (INFN and Università La Sapienza, Italy)

Evgeny Epelbaum (Ruhr-Universität Bochum, Germany)

Stefano Gandolfi (Los Alamos National Laboratory, USA)

Luca Girlanda (Università del Salento, Italy)

Alessandro Lovato (Argonne National Laboratory, USA)

Robert Roth (Technische Universität Darmstadt, Germany)

Rocco Schiavilla (Jefferson Lab. and Old Dominion University, USA)

Castello di Trento (Trint), watercolor, 19.8 x 27.7, painted by A. Dűrer on his way back from Venice (1495). British Museum, London

Self-Consistent Green's Function Approach

Electron Scattering Studies of Nuclear Structure

Nuclear Dynamics from Chiral EFT

Quantum Monte Carlo Approach

Nuclear Electroweak Current within Chiral EFT

Correlated Basis Function Approach

No-Core Shell Model Approach

Phenomenological Nuclear Interactions and Currents

### **Applications**

Application for the ECT\* Doctoral Training Programme should be submitted electronically through the ECT\* web page. It should include: a curriculum vitae, a 1-page description of academic and scientific achievements, a short letter expressing the applicant's personal motivation for participating in the programme.

In addition, a reference letter from the candidate's supervisor should be sent to:

Professor Jochen Wambach - Director of ECT\* (email to Serena degli Avancini serenada@ectstar.eu, fax: +39 0461 314 747)

**Deadline for applications: March 11, 2017** 

For further details see www.ectstar.eu