

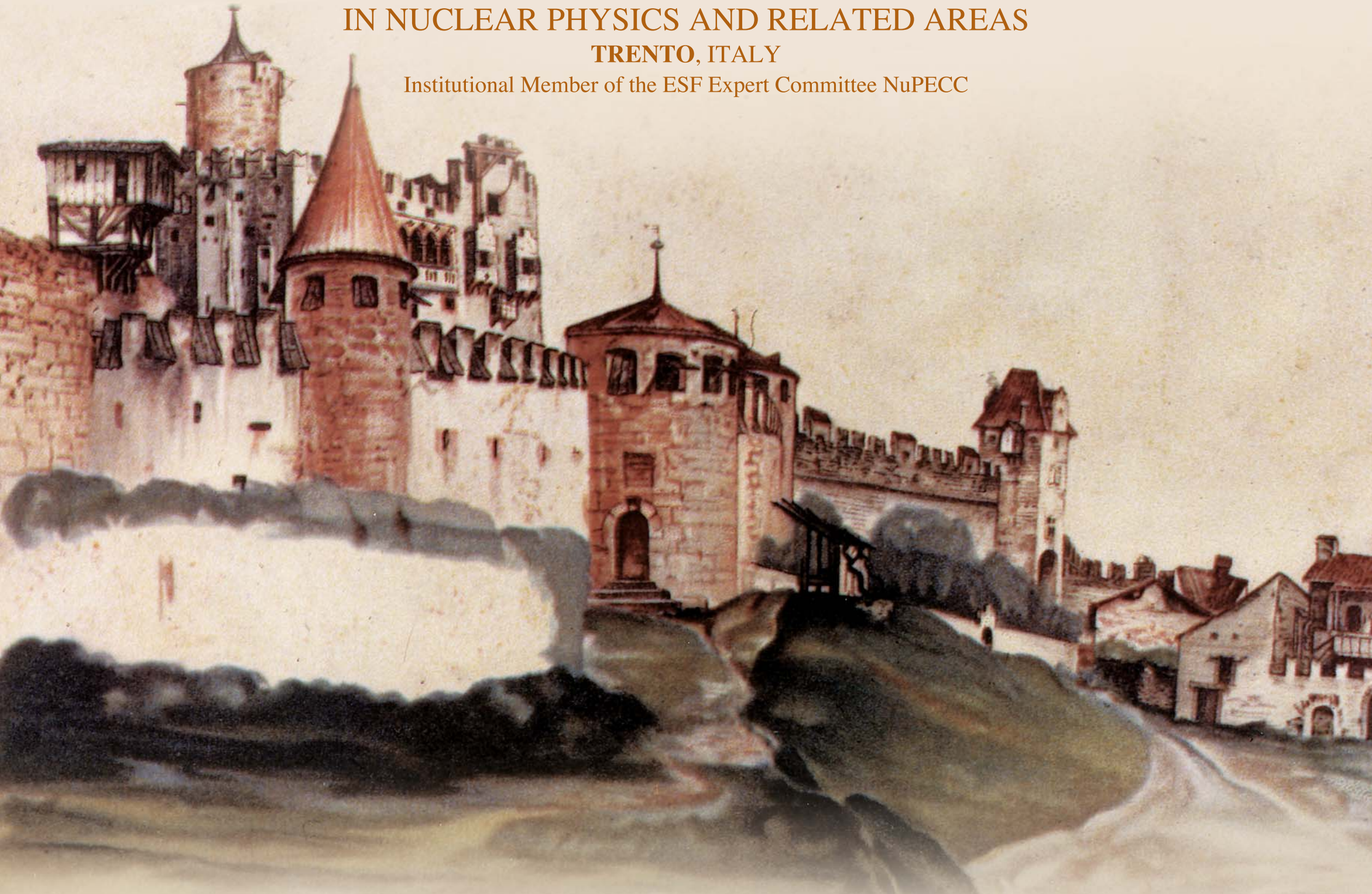


ECT*



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.

ECT* Doctoral Training Programme 2010 April 12 – June 13

Nuclear Structure and Nuclear Astrophysics with Radioactive Ion Beams

Programme Coordinators

Hans Feldmeier (*GSI Darmstadt*), Jeff Tostevin (*University of Surrey*), Hendrik Schatz (*NSCL/MSU East Lansing*)

Student coordinator and advisor: Georges Ripka (*Saclay and ECT**)

Main Topics

Nuclear Structure

microscopic treatment
many-body methods
effective interactions
shell model
exotic nuclei

Nuclear Reactions

reaction theory
one-step and higher order methods
weak transitions, charge exchange
capture and fusion
few-body and microscopic approaches

Nuclear Astrophysics

radioactive beam physics
X-ray bursts, neutron stars
supernovae, equation of state
r-process, network calculations
astronomical observations

Lecturers

M. Allietta, *University of Edinburgh*
T. Aumann, *GSI Darmstadt*
P.F. Bortignon, *University of Milan*
D. Baye, *ULB Brussels*
R. Diehl, *MPE Garching*
H. Feldmeier, *GSI Darmstadt*
P. van Isacker, *GANIL Caen*
R. Johnson, *University of Surrey*
G. Martinez Pinedo, *GSI Darmstadt*
B. Meyer, *Clemson University*

T. Neff, *GSI Darmstadt*
F. Nunes, *NSCL/MSU East Lansing*
T. Otsuka, *University of Tokyo*
E. Rehm, *ANL Argonne*
H. Schatz, *NSCL/MSU East Lansing*
J. Tostevin, *University of Surrey*
S. Typel, *TU Munich*
A. Vitturi, *INFN Padua*
R. Zegers, *NSCL/MSU East Lansing*

Applications

Application for the ECT* Doctoral Training Programme should be made electronically through the ECT* Login page. It should include:
A curriculum vitae, a description of academic and scientific achievements (publications, etc.), 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 directly (email is fine) to:

Professor Achim Richter – Director ECT - Strada delle Tabarelle 286 – 38123 Villazzano Trento - Italy (e-mail: serena@ect.it, fax: +39 0461 935007)*

Deadline for applications: January 15, 2010

For further details see <http://www.ect.it>