



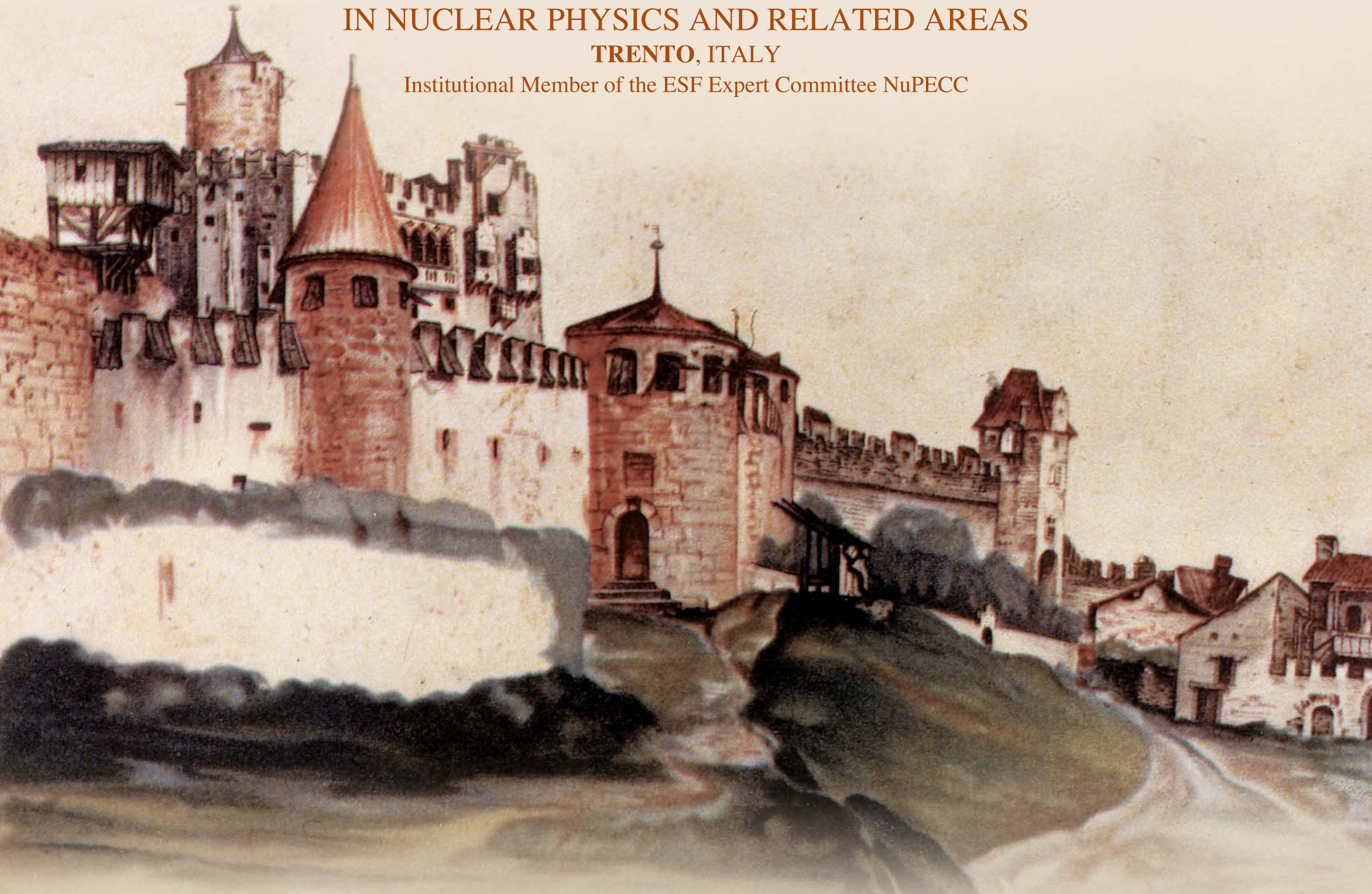
# ECT\*



## 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)

British Museum, London.

### International Workshop on QCD Green's Functions, Confinement, and Phenomenology Trento, September 7-11, 2009

The general theme of the workshop concerns techniques for gauge-invariant calculations of off-shell Green's functions in non-Abelian gauge theories such as QCD, and their relationship to other approaches to QCD, including lattice simulations and phenomenology. Of critical interest is the infrared behavior of such gauge theories, where all non-perturbative phenomena (confinement, chiral symmetry breakdown, non-integral topological charge) have their roots. We especially hope that the lattice and the continuum communities will find at the Workshop, and later explore, new ways of this most difficult problem of non-perturbative QCD.

#### Main Topics

Aspects of confinement  
Center vortices

Infrared Green's functions: Schwinger-Dyson equations and lattice  
Gribov phenomenon and mass generation  
Background field method and the pinch technique  
Chiral symmetry breaking  
Finite temperature  
Phenomenology  
Bound states, hybrids, glueballs

#### Participants include

J. P. Blaizot\* (CEA Saclay, France), V. G. Bornyakov (IHEP/ITEP, Russia), S. Brodsky\* (SLAC, Stanford U., USA), M. Creutz\* (Brookhaven Nat. Lab., USA), A. Cucchieri\* (U. of São Paulo, Brazil), M. D'Elia (Genova U., Italy), D. Diakonov\* (Petersburg N. P. Inst., Russia), D. Dudal (Ghent U., Belgium), R. Ferrari (U. of Milan, Italy), P. de Forcrand (ETH, Zurich, Switzerland), J. Gracey (Liverpool U., UK), J. Greensite (San Francisco State U., USA), L. Giusti (CERN, Switzerland), S. Hands (Swansea U., UK), M. Ilgenfritz\* (Humboldt U. Berlin, Germany), D. Karabali\* (City College of the CUNY, USA), K. Langfeld (U. of Plymouth, UK), M. Lavelle (U. of Plymouth, UK), V. Mathieu (U. of Mons-Hainaut, Belgium), L. McLerran\* (Brookhaven National Laboratory, USA), T. Mendes (U. of São Paulo, Brazil), P. Minkowski (Bern U., Switzerland), M. Müller-Preussker\* (Humboldt U. Berlin, Germany), V. P. Nair (City College of the CUNY, USA), A. Natale (IFT-Unesp, Brazil), S. Olejnik (Slovak Academy of Science, Slovakia), O. Pene (U. of Paris Sud XI, France), O. Philipsen (Munster U., Germany), A. Quadri (U. of Milan, Italy), C. Ratti (U. of NY at Stony Brook, USA), H. Reinhardt\* (Tübingen U., Germany), C. D. Roberts\* (Argonne Nat. Lab., USA), J. Rodriguez-Quintero (U. of Huelva, Spain), V. Sauli (CFTP, Portugal), Y. Simonov (ITEP, Russia), J. Skullerud (NUI Maynooth, Ireland), S. Sorella (Rio de Janeiro State U., Brazil), H. Suganuma (Kyoto U., Japan), A. Szczepaniak (U. of Indiana, USA), P.C. Tandy (Kent State U., USA), M. A. Trusov (ITEP, Russia), N. Vandersickel (Ghent U., Belgium), V. Vento (U. of Valencia, Spain), H. Verschelde (Ghent U., Belgium), W. Weise (U. of Technology Munich, Germany), V. I. Zakharov (ITEP, Russia).

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