



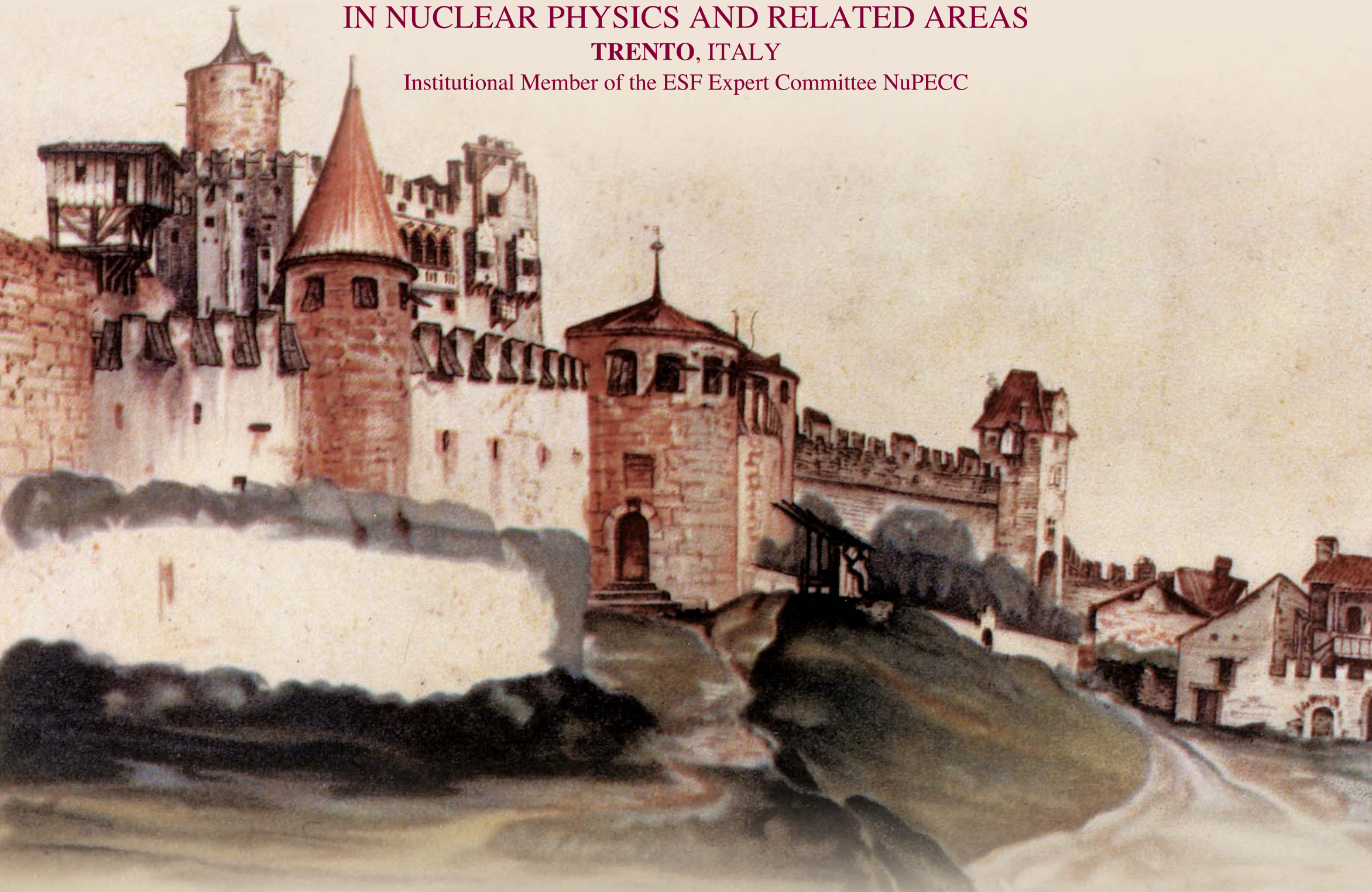
ECT*



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.

Mathematical Aspects of Hadron Physics Trento, October 8-12, 2012

Main Topics

1. Hopf algebra structure of renormalisation and its relationship to Dyson-Schwinger equations
2. QCD's β function and its computation within the Hopf algebra representation of renormalisation
3. Constraining truncation schemes for the Dyson-Schwinger equations via practical demands of perturbation theory
4. Predictions for hadron physics based on systematic truncations of Dyson-Schwinger equations

Key speakers include

Jakob Ablinger (*Desy, Berlin*), Adnan Bashir (*Michoacan, Mexico*), Marc Bellon (*LPTHE, France*), Isabella Bierenbaum (*RWTH-Aachen, Germany*), Kurusch Ebrahimi-Fard (*ICMAT, Spain*), Bruno El-Bennich (*Cruzeiro do Sul, Brazil*), Loic Foissy (*Reims, France*), Thierry Grandou (*INLN, France*), Stefan Hollands (*Cardiff, UK*), Dominique Manchon (*Clermont-Ferrand, France*), Joachim Kock (*Univ. Autònoma de Barcelona*), Frederic Patras (*Nice, France*), Michael Pennington (*JLab, USA*), Jose Rodriguez-Quintero (*Huelva, Spain*), Craig Roberts (*Argonne, USA*), Silvio Sorella (*UERJ, Brazil*), Peter Tandy (*Kent State U, USA*), Jérémie Unterberger (*Nancy, France*), Stefan Weinzierl (*Mainz, Germany*).

Organizers

Craig Roberts (*Argonne National Laboratory*)
Kurusch Ebrahimi-Fard (*Instituto de Ciencias Matematicas*)
Frédéric Patras (*University of Nice*)

Director of the ECT*: Professor Achim Richter (ECT*)



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