



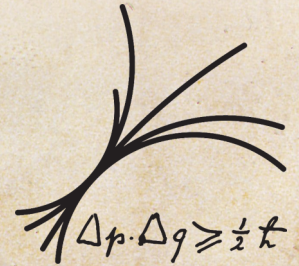
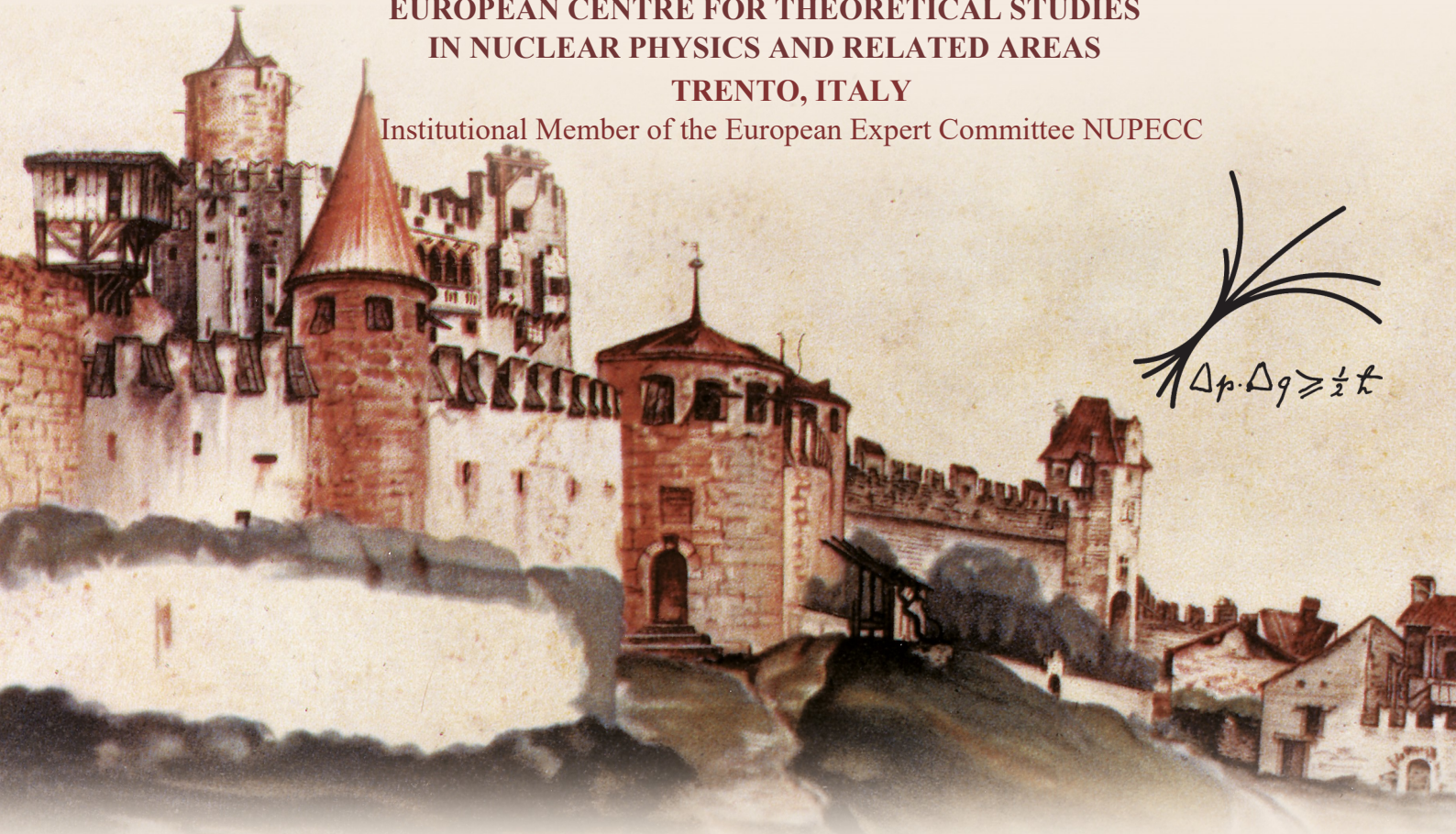
# ECT\*



EUROPEAN CENTRE FOR THEORETICAL STUDIES  
IN NUCLEAR PHYSICS AND RELATED AREAS

TRENTO, ITALY

Institutional Member of the European Expert Committee NUPECC



Castello di Trento ("Trin"), watercolor 19.8 x 27.7, painted by A. Dürer on his way back from Venice (1495). British Museum,

## Precision measurements of the strong coupling constant

Trento, February 11 - 15, 2019

### Main Topics

Experimental and theoretical status and prospects in the determination of the QCD coupling constant,  $\alpha_s(m_z)$ , from key measurements and calculations, including:

Lattice QCD

Hadronic decays of tau leptons

Deep-inelastic electron-proton scattering and global parton density analyses

QCD corrections to electroweak precision observables

Hadronic final states in high-energy particle collisions ( $e^+e^-$ , ep, and pp)

### Keynote participants

Alekhin Sergey (*Hamburg University*, Germany), Barabanov Mikhail (*JINR*, Russia), Barreiro Fernando (*Universidad Autónoma de Madrid*, Spain), Brambilla Nora (*TUM*, Germany), Britzger Daniel (*Max-Planck-Institut für Physik*, Germany), Brodsky Stanley (*SLAC - Stanford University*, USA), Camarda Stefano (*CERN*, Switzerland), Chakraborty Bipasha (*University of Cambridge*, UK), Dalla Brida Mattia (*INFN & Univ. di Milano-Bicocca*, Italy), Golterman Maarten (*San Francisco State University*, USA), Hoang Andre (*University of Vienna*, Austria), Huston Joey (*Michigan State University*, USA), Kuehn Johann (*Karlsruhe Institute of Technology*, Germany), Malaescu Bogdan (*CNRS & CERN*, France and Switzerland), Miravitllas Ramon (*Universitat Autònoma de Barcelona*, Catalonia), Nesterenko Alexander (*JINR*, Russia), Perez-Ramos Redamy (*IPSA & LPHE*, France), Peris Santi (*Universitat Autònoma de Barcelona*, Catalonia), Pires Joao (*CFTP - Universidade de Lisboa*, Portugal), Pöldaru Andres (*LMU*, Germany), Rabbertz Klaus (*KIT*, Germany), Ringer Felix (*Lawrence Berkeley National Laboratory*, USA), Sint Stefa (*Trinity College Dublin*, Ireland), Sommer Rainer (*NIC-DESY*, Germany), Takaura Hiromasa (*Kyushu University*, Japan), Zanderighi Giulia (*MPI*, Germany).

### Organizers

David d'Enterria (*CERN*, Switzerland)

Stefan Kluth (*Max-Planck-Institute (MPI) / Werner-Heisenberg-Institute (MPP)*, Germany)

Director of the ECT\*: Professor Jochen Wambach (ECT\*)

The ECT\* is sponsored by the "Fondazione Bruno Kessler" in collaboration with the "Assessorato alla Cultura" (Provincia Autonoma di Trento), funding agencies of EU Member and Associated States and has the support of the Department of Physics of the University of Trento.

For local organization please contact: Christian Fossi - ECT\* Local Organizer - Villa Tambosi - Strada delle Tabarelle 286 - 38123 Villazzano (I) Tel.:(+39-0461) 314731 Fax:(+39-0461) 314750, E-mail: [fossi@ectstar.eu](mailto:fossi@ectstar.eu) visit <http://www.ectstar.eu>