

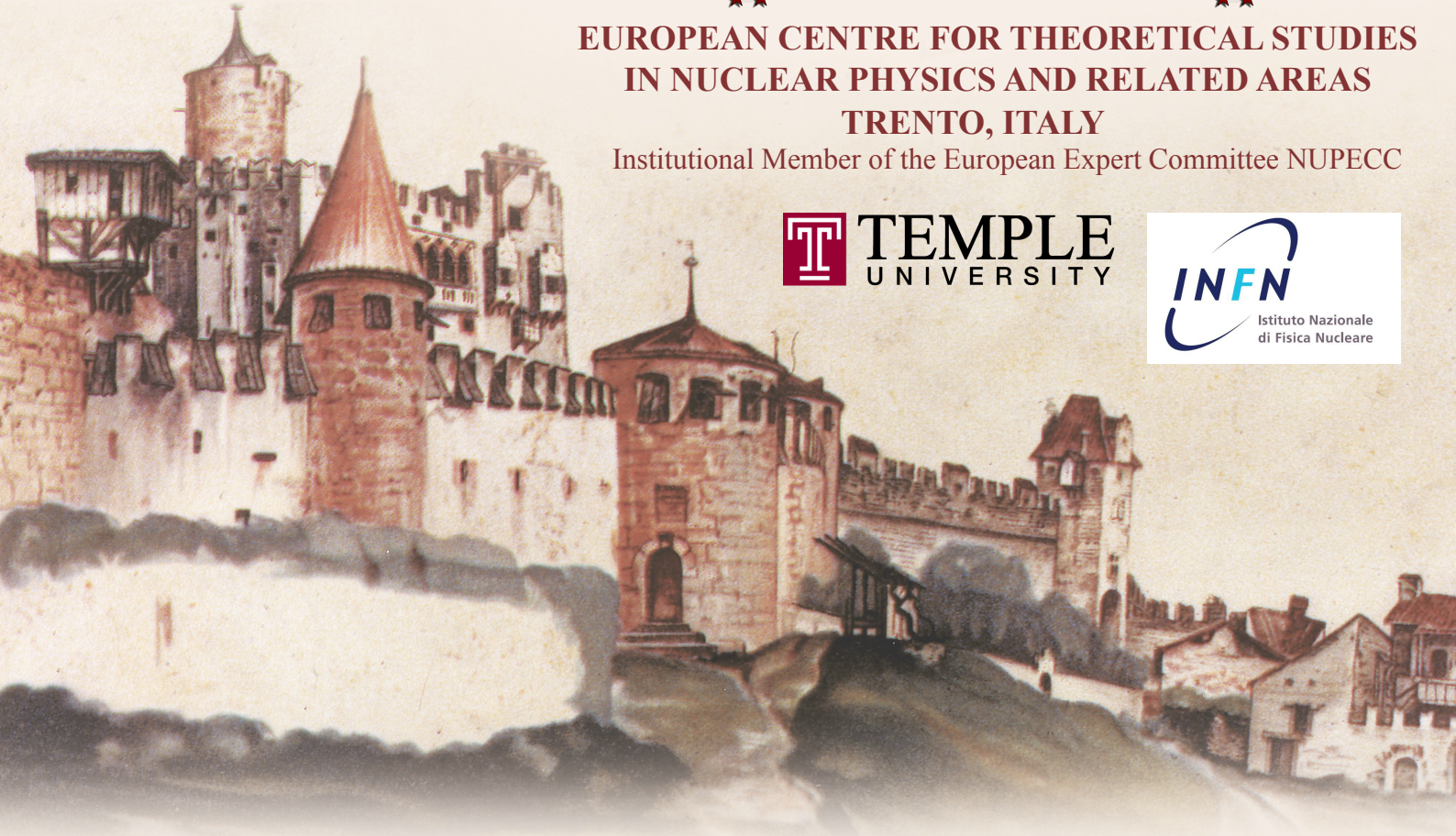


# ECT\*



## EUROPEAN CENTRE FOR THEORETICAL STUDIES IN NUCLEAR PHYSICS AND RELATED AREAS TRENTO, ITALY

Institutional Member of the European Expert Committee NUPECC



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

## The Proton Mass: At the Heart of Most Visible Matter

Trento, April 3 - 7, 2017

### Main Topics

#### Hadron mass decomposition in terms of constituents:

Uniqueness of the decomposition, Quark mass, and quark and gluon energy contribution, Anomaly contribution, ...

#### Hadron mass calculations:

Lattice QCD (total & individual mass components), Approximated analytical methods, Phenomenological model approaches, ...

#### Experimental access to hadron mass components:

Exclusive heavy quarkonium production at threshold, nuclear gluonometry through polarized nuclear structure function, ...

### Confirmed speakers and participants

Alexandrou Constantia (*Cyprus University*), Brodsky Stan (*SLAC*), Burkardt Matthias (*New Mexico State University*), Chen Jian-Ping (*Jefferson Lab*), Chudakov Eugene (*Jefferson Lab*), Cloët Ian (*Argonne National Lab*), de Teramond Guy (*University Costa Rica*), Deshpande Abhay (*Stony Brook University*), Eichmann Gernot (*Giessen University*), Hafidi Kawtar (*Argonne National Lab*), Hoelbling Christian (*University of Wuppertal*), Lin Huey-Wen (*Michigan State University*), Liu Keh-Fei (*University of Kentucky*), Lorcé Cédric (*École Polytechnique, Palaiseau*), Mulders Piet (*Vrije University of Amsterdam*), Papavassiliou Joannis (*Valencia University*), Pascalutsa Vladimir (*Johannes Gutenberg University of Mainz*), Richards David (*Jefferson Lab*), Roberts Craig (*Argonne National Lab*), Slifer Karl (*University of New Hampshire*), Mauro Anselmino (*University of Torino & INFN*), Bob Jaffe (*Massachusetts Institute of Technology*), Dima Kharzeev (*Stony Brook University*), Xiangdong Ji (*University of Maryland*).

### Organizers

Zein-Eddine Meziani (*Temple University*)  
Barbara Pasquini (*University of Pavia*)  
Jianwei Qiu (*Jefferson Lab*)  
Marc Vanderhaeghen (*Universität Mainz*)

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

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