



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,

Observables of Hadronization and the QCD Phase Diagram in the Cross-over Domain Trento, October 15-19, 2018

Main topics

Lattice QCD predictions for the crossover transition, Quark number susceptibilities and the Equation of State, Lattice predictions at high baryochemical potential, Fluctuations from HRG and Lattice, The Statistical Hadronization Model, Quarkonia in the Statistical Hadronization Model, Generalizations of the HRG model, Hadronization and the production of light nuclei, Critical point fluctuations, New data: net Lambda fluctuations, Bulk properties extracted from the RHIC BES runs, Fluctuations and the QCD Phase Diagram, New microscopic and transport models, Removing observational effects from fluctuation data, Chemical freeze-out in the cross-over domain, Future Facilities and their physics potential

Invited speakers

Joerg Aichelin (*Nantes*), Anton Andronic (*GSI*), Alexej Bazavov (*MSU*), Victor Begun (*Warsaw*), David Blaschke (*Dubna*), Marcus Bluhm (*Wroclaw*), Elena Bratkovskaya (*Frankfurt/GSI*), Peter Braun-Munzinger (*GSI/Univ. Heidelberg*), Adam Bzdak (*Krakow*), Massimo D'Elia (*Uni Pisa*), Benjamin Doenigus (*Darmstadt GSI*), Alexandra Friesen (*Dubna*), Tetyana Galatyuk (*Darmstadt*), Rajiv Gavai (*Tata Inst.*), Marc Gorenstein (*Kiev*), Carsten Greiner (*Frankfurt*), Uli Heinz (*Ohio State*), Alexander Kalweit (*CERN*), Volker Koch (*LBL*), William Llope (*Wayne*), Marlene Nahrgang (*Subatech*), Alice Ohlson (*Heidelberg*), Dima Oliinychenko (*LBL*), Claudia Ratti (*Houston*), Krzysztof Redlich (*Wroclaw*), Anar Rustamov (*Heidelberg*), Helmut Satz (*Bielefeld*), Christian Schmidt (*Bielefeld*), Juergen Schukraft (*CERN*), Johanna Stachel (*Heidelberg*), Horst Stoecker (*GSI/Frankfurt*), Joachim Stroth (*Frankfurt*), David Tlusty (*Rice Univ.*), Volodymyr Vovchenko (*Frankfurt*)

Organizers

Francesco Becattini (*University and INFN Florence*), Rene Bellwied (*University of Houston*),
Marcus Bleicher (*FIAS Frankfurt*), Jan Steinheimer (*FIAS Frankfurt*), Reinhard Stock (*FIAS Frankfurt*)

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

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