



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,

Foundational aspects of relativistic hydrodynamics

Trento, May 7-11, 2018

Main topics

Transitions to hydrodynamics and thermalization at strong and weak coupling; (non)convergence of Chapman-Enskog and hydrodynamic gradient expansions; hydrodynamic attractors; non-equilibrium hydrodynamics, in particular for small collision systems; fluctuations and long-time tails; analytic structure of hydrodynamic correlation functions at strong and weak coupling; extended theories of relativistic hydrodynamics (anisotropic and transient hydrodynamics)

Keynote participants

Maximilian Attems (*Santiago De Compostela*), Francesco Becattini (*Firenze*), Nicolas Borghini (*Bielefeld*), Jasmine Brewer Jasmine (*MIT*), Chandrodoy Chattopadhyay (*Tata Institute*), Gabriel Denicol (*University Federal Fluminense*), Eduardo Grossi (*Heidelberg*), Jakub Jankowski (*Warsaw*), Pavel Kovtun (*University of Victoria*), Liao Jinfeng (*Indiana University*), Martinez Mauricio Guerrero (*North Carolina State University*), Jorge Noronha (*University Sao Paulo*), Jean-Yves Ollitrault (*IPhT Saclay*), Hannah Petersen (*Frankfurt*), Natalia Pinzani Fokeeva (*Leuven*), Luciano Rezzolla (*Frankfurt*), Dirk Rischke (*Frankfurt*), Paul Romatschke (*Boulder*), Michał Spaliński (*National Centre For Nuclear Research, Swierk*), Mikhail Stephanov (*UIC Chicago*), Michael Strickland (*Kent State University*), Viktor Svensson (*National Centre For Nuclear Research, Swierk*), Derek Teaney (*Stony Brook University*), Wilke Van Der Schee (*Utrecht University*), Urs Achim Wiedemann (*CERN*), Li Yan (*McGill University*)

Organizers

Ulrich Heinz (*Ohio State University*), Michał Heller (*MPI for Gravitational Physics & National Centre For Nuclear Research, Swierk*), Guy Moore (*Technische Universität Darmstadt*)

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

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