

INT Program INT-15-2c Week 1

Equilibration Mechanisms in Weakly and Strongly Coupled Quantum Field Theory

August 3 - 28, 2015

*ALL TALKS WILL BE HELD IN THE SEMINAR ROOM, C421, &
ALL AFTERNOON DISCUSSIONS WILL BE HELD IN C-423*

Monday, August 3, 2015

- 10:00 AM "Thermalization of mini-jets in a quark-gluon plasma"
Edmond Iancu, CEA Saclay
- 11:30 AM "Thermalization process in scalar and gauge theories — A weak coupling perspective"
Soeren Schlichting, Brookhaven National Lab
- 3:15 PM Discussion Session

Tuesday, August 4, 2015

- 10:00 AM "Experimental evidence for non-hydrodynamic modes"
Paul Romatschke, University of Colorado Boulder
- 11:30 AM "An analytical solution to the relativistic Boltzmann equation and its hydrodynamical limit"
Mauricio Martinez, The Ohio State University
- 3:15 PM Discussion Session

Wednesday, August 5, 2015

- 10:00 AM "Conformal quantum mechanics and holographic quench"
Esko Keski-Vakkuri, University of Helsinki
- 11:30 AM "NLO effective kinetic theory for jets and thermalization"
Jacopo Ghiglieri, University of Bern
- 3:15 PM Discussion Session

Thursday, August 6, 2015

- 10:00 AM "Equilibration in 'small systems' and dynamics of QCD strings"
Edward Shuryak, Stony Brook University
- 11:30 AM "Anisotropic hydrodynamics for conformal Gubser flow"
Michael Strickland, Kent State University
- 3:15 PM Discussion Session

Friday, August 7, 2015

- 10:00 AM "Far-from-equilibrium dynamics of a strongly coupled non-Abelian plasma with non-zero charge density or external magnetic field"
John Fuini, University of Washington
- 11:30 AM "Status and puzzles in weak coupling thermalization"
Raju Venugopalan, BNL
- 3:15 PM Discussion Session

INT Program INT-15-2c Week 2

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Monday, August 10, 2015

- 10:00 AM "Improved hydrodynamic approximations for the early stages of heavy-ion collisions"
Ulrich Heinz, The Ohio State University
- 11:30 AM "Energy Loss in Unstable Quark-Gluon Plasma."
Stanislaw Mrowczynski, Jan Kochanowski University
- 2:45 PM Discussion Session

Tuesday, August 11, 2015

- 10:00 AM "From unitary dynamics to statistical mechanics in isolated quantum systems"
Marcos Rigol, Penn State
- 11:30 AM "Holographic entanglement entropy in an anisotropic system"
Stefan Stricker, Institute for theoretical physics
- 2:45 PM Discussion Session

Wednesday, August 12, 2015

- 10:00 AM "Towards the String Dual of a Color Superconductor"
David Mateos, Universitat de Barcelona
- 11:30 AM "Thermalization of strongly coupled 2D CFT"
Shu Lin, Brookhaven National Laboratory
- 2:45 PM Discussion Session

Thursday, August 13, 2015

- 10:00 AM "Relativistic hydrodynamics at large gradients"
Michal P. Heller, Perimeter Institute for Theoretical Physics
- 11:30 AM "Directed flow in holographic heavy ion collisions"
Wilke van der Schee, Center of Theoretical Physics
- 2:45 PM Discussion Session

Friday, August 14, 2015

- 10:00 AM TBD
- 11:30 AM "Universality classes far from equilibrium of scalar and gauge theories"
Kirill Boguslavski, Institute for Theoretical Physics
- 2:45 PM Discussion Session

INT Program INT-15-2c Week 3

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Monday, August 17, 2015

- 10:00 AM "Towards a semi-holographic model for heavy-ion"
Anton Rebhan, Institute for Theoretical Physics
- 11:30 AM "Recent Developments in Numerical Relativity"
Miguel Zilhao, Universitat de Barcelona
- 3:15 PM Discussion Session

Tuesday, August 18, 2015

- 10:00 AM "Poincare AdS Black Hole Formation to Model Head-on Heavy Ion Collision"
Hans Bantilan, University of Colorado - Boulder
- 11:30 AM "Inhomogeneous thermalization and strongly coupled thermal flow via holography"
Daniel Fernandez, Max Planck Institute for Physics in Munich
- 3:15 PM Discussion Session

Wednesday, August 19, 2015

- 10:00 AM "Non-conformal shockwave collisions"
Maximilian Attems, Institute of Cosmos Science
- 11:30 AM "Consistent kinetic equations for leptogenesis"
Andreas Hohenegger, University of Stavanger
- 3:15 PM Discussion Session

Thursday, August 20, 2015

- 10:00 AM "Numerical holography and heavy ion collisions"
Laurence Yaffe, University of Washington
- 11:30 AM "Large-scale simulations of a first-order cosmological phase transition"
David Weir, University of Stavanger
- 3:15 PM Discussion Session

Friday, August 21, 2015

- 10:00 AM "Friction during a first-order phase transition"
Thomas Konstandin, DESY
- 11:30 AM "Holographic 3-jet events"
Andrej Ficnar, University of Oxford
- 3:15 PM Discussion Session

INT Program INT-15-2c Week 4

Equilibration Mechanisms in Weakly and Strongly Coupled Quantum Field Theory

August 3 - 28, 2015

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Monday, August 24, 2015

- 10:00 AM "Equilibration rates in a strongly coupled nonconformal quark-gluon plasma"
Alex Buchel, UWO/PI
- 11:30 AM "Advantages and limitations of the classical approximation for the early stages of heavy ion collisions"
Thomas Epelbaum, McGill University
- 3:15 PM Discussion Session

Tuesday, August 25, 2015

- 10:00 AM "Quark loops and photons with CGC in pA"
Kenji Fukushima, The University of Tokyo
- 11:30 AM TBD
Pavel Kovtun, University of Victoria
- 3:15 PM Discussion Session

Wednesday, August 26, 2015

- 10:00 AM "Classical field initial stages of a heavy ion collision"
Tuomas Lappi, University of Jyvaskykla
- 11:30 AM "Chiral drag force"
Andrey Sadofyev, MIT
- 3:15 PM Discussion Session

Thursday, August 27, 2015

- 10:00 AM "Non-local wave turbulence in QCD"
Yacine Mehtar-Tani, Institute for Nuclear Theory
- 11:30 AM "Anomalies and non-equilibrium"
Piotr Surowka, Harvard University
- 3:15 PM Discussion Session

Friday, August 28, 2015

- 10:00 AM Informal Discussion in C423
- 3:15 PM Discussion Session