

QCD in Extreme Conditions

July 31 – August 2, 2006

Physics Department
Large Seminar Room

Monday, July 31

- 08:30 – 09:00 Registration and Collection of Proceedings Packages
09:00 – 09:45 Deconfinement Transitions of SU(N) Lattice Gauge Theories with Large-N (*Barak Bringoltz*)
09:45 – 10:30 Deconfinement and Chiral Symmetry Restoration in Large Nc Gauge Theories (*Rajamani Narayanan*)
- 10:30 – 11:00 Coffee Break**
- 11:00 – 11:45 Z(3)-Symmetric Effective Theory for Pure Gauge QCD at High Temperature (*Aleksi Vuorinen*)
11:45 – 12:15 Wilson Lines and Deconfinement (*Rob Pisarski*)
- 12:15 – 14:00 Lunch**
- 14:00 – 14:30 Heavy Quark Potentials in Full QCD Lattice Simulations at Finite Temperature (*Yuu Maezawa*)
14:30 – 15:00 Free Energy of Static Quark Anti-Quark Pair in 2+1 Flavor QCD with Staggered Quarks (*Konstantin Petrov*)
- 15:00 – 15:30 Coffee Break**
- 15:30 – 16:00 The Problem of Confinement in Lattice Gauge Theory (*Michele Pepe*)
16:00 – 16:30 Dynamics of Phase Transitions: SU(3) Lattice Gauge Theory (*Oleksiy Bazavov*)

Tuesday, August 1

- 09:00 – 09:45 Lattice QCD at Finite T and mu (*Zoltan Fodor*)
09:45 – 10:30 An Unconventional Possible Scenario for the QCD Phase Diagram (*Owe Philipsen*)
- 10:30 – 11:00 Coffee Break**
- 11:00 – 11:30 The Equation of State with 2+1 Flavors of Asqtad Fermions (*Ludmila Levkova*)
11:30 – 12:00 QCD Thermodynamics on QCDOC Machine (*Takashi Umeda*)
12:00 – 12:30 QCD Thermodynamics with Two Flavors of Wilson Quarks (*Shinji Ejiri*)
- 12:30 – 14:00 Lunch**
- 14:00 – 14:45 Quarkonium Spectral Functions and Correlators from Anisotropic Lattice (*Alexander Velytsky*)
14:45 – 15:30 Heavy Quark Diffusion (*Derek Teaney*)
- 15:30 – 16:00 Coffee Break**
- 16:00 – 16:45 Hadron Correlators in QCD (*Stanislav Shcheredin*)
16:45 – 17:15 Lattice Perspective on Strangeness and Quasi-Quarks (*Rajiv Gavai*)

Wednesday, August 2

- 09:00 – 09:45 The Color Superconductivity of High Density QCD: A Status Report (*Hai-cang Ren*)

09:45 – 10:30 Breakdown of Staggered Fermions at Finite μ (*Benjamin Svetitsky*)

10:30 – 11:00 Coffee Break

11:00 – 11:45 Dense 2-Colour Quark Matter (*Jonivar Skullerud*)
11:45 – 12:15 Finite Density Simulations using the Canonical Approach (*Andrei Alexandru*)

12:15 – 14:00 Lunch

14:00 – 14:45 TBD (*Maria Lombardo*)
14:45 – 15:15 Lattice QCD at Finite Temperature and/or Densities (*Donald Sinclair*)
15:15 – 15:45 QCD Thermodynamics with Domain Wall Fermions (*Norman Christ*)

15:45 – 16:15 Coffee Break

16:15 – 16:45 Partially Quenched QCD at Finite Density (*James Osborn*)
16:45 – 17:15 Toward Realistic Simulation of QCD at Finite Temperature and Density (*Atsushi Nakamura*)