

**Schedule for the Discussion meeting on extreme QCD matter**

**Monday 16<sup>th</sup>**

- 10:00-11:15 Introduction to Lattice QCD (Rajiv Gavai)  
Tea break
- 11:45-13:00 CMBR Physics & Magnetohydrodynamics  
in relativistic heavy-ion collisions (Ajit Srivastava)  
Lunch
- 14:15-15:30 Collectivity in large and small systems (Rajeev Bhalerao)  
Tea break

**Tuesday 17<sup>th</sup>**

- 10:00-11:15 Introduction to Lattice (Rajiv Gavai)  
Tea break
- 11:45-13:00 CMBR & Magnetohydrodynamics  
in relativistic heavy-ion collisions (Ajit Srivastava)  
Lunch
- 14:15-15:15 1. Analytical attractors in viscous hydrodynamics for  
Bjorken flow (Sunil Jaiswal)
2. Relativistic Dissipative Hydrodynamics for Interacting  
RTA (Samapan Bhadury)  
Tea break
- 15:45-16:30 Constraining the EoS of neutron stars with gravitational  
wave observations (Rana Nandi)
- 16:30-17:00 Color Superconductivity in magnetized three flavour  
quark matter (Aman Abhishek)

**Wednesday 18<sup>th</sup>**

- 10:00-11:15 CMBR & Magnetohydrodynamics  
in relativistic heavy-ion collisions (Ajit Srivastava)  
Tea break
- 11:45-12:45 1. Flow correlations as a measure of phase transition:  
results from a new hydrodynamic code (Ashutosh Dash)
2. Shear viscosity in Polyakov loop-quark-meson model  
(Pracheta Singha)  
Lunch
- 14:15-15:30 Introduction to Lattice (Rajiv Gavai)  
Tea break
- 16:00-17:00 1. Study of chiral symmetry in presence of magnetic field in  
NJL and PNJL models (Nilanjan Chaudhuri)
2. Z3 metastable states in PNJL model (Minati Biswal)

## 1st IMSc Discussion Meeting on Extreme QCD matter

### Thursday 19<sup>th</sup>

10:00-11:15 Collectivity in large and small systems (Rajeev Bhalerao)

Tea break

11:45-12:30 Toy models for non-perturbative physics of QCD matter (Ayan Mukhopadhyay)

Lunch

14:00-15:15 Heavy quark diffusion coefficient from the Lattice (Pushan Majumdar)

Tea break

15:30-16:30 **Colloquium:**  
*"Perspective from a Life on Lattice: An amazing Odyssey in the Femto-World"*  
Rajiv Gavai

### Friday 20<sup>th</sup>

10:00-11:15 Introduction to Lattice (Rajiv Gavai)

Tea break

11:45-12:45 1. Chemical freeze-out in the heavy-ion collision (Deeptak Biswas)

2. Quarkonia in a magnetized quark gluon plasma (Balbeer Singh)

Lunch

14:15-15:15 Introduction to Hamiltonian approach to LQCD (Sreeraj T.P)

Tea break

15:45-16:45 GPU computing using directives (Pushan Majumdar)

### Saturday 21<sup>st</sup>

10:00-11:15 Introduction to Lattice (Sayantan )

Tea break

11:45-12:45 1. Hawking Radiation from Acoustic Black-Hole in Relativistic Heavy-ion Collisions (Shreyansh S. Dave)

2. Link-loop and Duality (Atul Rathod)

Lunch