



Workshop on Field Theoretic Aspects of Gravity (FTAG) XI-2016

Programme Schedule

22 – 26 February 2016

Venue: Bose

Monday 22nd February, 2016

10:00 – 10:15 Inauguration by Prof. Sibaji Raha
Director, S. N. Bose National Centre for Basic Sciences

Pre-Lunch Session Chair: Naresh Dadhich

10:15 – 11:00 T. R. Govindarajan
Edge states, Horizon states and moving boundaries

11:00 – 11:15 **TEA**

11:15 – 12:00 Parthasarathi Mitra
Log corrections to black hole entropy

12:00 – 12:45 Kumar Abhinav
Weyl Invariant Gravity and Massive Photon

12:45 – 1:30 Karan Fernandes
Constrained dynamics on manifolds with horizons

1:30 – 2:30 **Lunch** (SNBNCBS Lawn)

Post-Lunch Session Chair: Romesh Kaul

2:30 – 3:15 Parthasarathi Majumdar
A Black Hole Entropic View on Neutron Star Mass

3:15 – 4:00 Swastik Bhattacharjee
*Fluctuations and Transport Phenomena
in Horizon Fluids for Black holes*

4:00 – 4:15 **TEA**

4:15 – 5:00 Sumanto Chanda
Bianchi-IX gravitational instantons and related dynamical systems

Schedule for FTAG XI

Tuesday 23rd February, 2016

Pre-Lunch Session

Chair: A. P. Balachandran

10:00 – 10:45

Naresh Dadhich
*Some gravitational features as guiding principle
for gravitational equation in higher dimensions*

10:45 – 11:30

Amitabh Virmani
Charged Vaidya Solution Satisfies Weak Energy Condition

11:30 – 11:45

TEA

11:45 – 12:30

Rudranil Basu
Higher Spin Fluctuations on Lens Spaces

12:30 – 1:15

Sourav Bhattacharya
Thermodynamics and particle creation for de Sitter black holes

1:15 – 2:30

Lunch (SNBNCBS Lawn)

Post-Lunch Session

Chair: Parthasarathi Mitra

2:30 – 3:15

Sayan Kar
Born-Infeld gravity

3:15 – 4:00

Soumya Jana
*Cosmological and Spherically Symmetric Static solutions in Born – Infeld
gravity*

4:00 – 4:15

TEA

4:15 – 5:00

Jaffino
Moving mirror and fluctuation-dissipation theorem

Schedule for FTAG XI

Wednesday 24th February, 2016

Pre-Lunch Session

Chair: Parthasarathi Majumdar

10:00 – 10:45

E. Harikumar

Dimensional Flow in κ -space-time

10:45 – 11:30

Kumar S. Gupta

Noncommutative geometry and Planck scale physics

11:30 – 11:45

TEA

11:45 – 12:30

Nigel Bishop

Gravitational waves in de Sitter spacetime

12:30 – 1:15

Srijit Bhattacharjee

Entropy functionals and the second law

1:15 – 2:30

Lunch (SNBNCBS Lawn)

Post-Lunch Session

Chair: Sudhakar Panda

2:30 – 3:15

Rabin Banerjee

Spatial diffeomorphism from Galilean gauge theory and its applications

3:15 – 4:00

Pradip Mukherjee

Geometric aspects of Galilean gauge theory

4:00 – 4:15

TEA

4:15 – 5:00

Arpita Mitra

*Non-relativistic conformal field theories
on Weyl-rescaled Newton-Cartan background*

5:00 – 5:45

Subhasish Chakrabarty

Conformal transformation of tetrad and spin connection

Schedule for FTAG XI

Thursday 25th February, 2016

Pre-Lunch Session

Chair: T. R. Govindarajan

10:00 – 10:45

Romesh Kaul

Are First and Second Order Formulations of Gravity Equivalent?

10:45 – 11:30

Sandipan Sengupta

Non-singular spacetimes with horizons: An alternative to black holes?

11:30 – 11:45

TEA

11:45 – 12:30

A. P. Balachandran

Dark Radiation from Infragravitons

12:30 – 1:15

Abhishek Majhi

Black Hole Entropy from indistinguishable quantum geometric excitations

1:15 – 2:30

Lunch (SNBNCBS Lawn)

Post-Lunch Session

Chair: Rabin Banerjee

2:30 – 3:15

Sunandan Gangopadhyay

Analytic study of properties of holographic superconductors

3:15 – 4:00

Suman Ghosh

Creation of spin 1/2 particles and renormalization of stress tensor in various cosmological scenarios

4:00 – 4:15

TEA

Schedule for FTAG XI

Friday 26th February, 2016

Pre-Lunch Session

Chair: Nigel Bishop

10:00 – 10:45

Patrick Dasgupta

*Supermassive Black Holes from collapse of
Bose-Einstein condensation of bosonic dark matter*

10:45 – 11:30

Subhendra Mohanty

Cosmology with 750 GeV scalar

11:30 – 11:45

TEA

11:45 – 12:30

Bethan Cropp

Vorticity in analogue spacetimes

12:30 – 2:30

Lunch (SNBNCBS Lawn)
