A day of Gravitation and Cosmology

Department of Physics, IIT Madras

January 26, 2018

Venue: Bose Hall, HSB 210

Time	Speaker	Title
09:00 – 09:25	Krishnamohan Parattu	Quantum features of cosmological perturbations
09:25 – 09:40	Arnab Pradhan	Thermal history and decoupling
09:40 – 09:55	S. Sindhu Sri Sravya	Evolution of inhomogeneities in the universe
09:55 – 10:20	H. V. Ragavendra	Comparison of models of inflation with CMB data using CosmoMC
10:20 – 10:45	Debottam Nandi	Vector Galileon and inflationary magnetogenesis
10:45 – 11:00	**COFFEE BREAK**	
11:00 – 11:25	Debika Chowdhury	Primordial magnetic fields in bouncing universes
11:25 – 11:50	Rathul Nath Raveendran	Viable primordial power spectra in near-matter bounces
11:50 – 12:05	Amit Vikram	The Schwinger effect in inflationary cosmology
12:05 – 12:20	Shoy Ouseph	Path integrals in cosmology
12:20 – 12:35	H. S. Sunil Simha	Clustering of Mg II absorbers along quasar lines of sight
12:35 – 12.50	Vandana Ramakrishnan	Self gravitating systems in the presence of cosmological constant
12:50 – 14:00	**LUNCH BREAK**	
14:00 – 14:25	Rahul Kothari	Testing predictions of primordial power spectra based models by an Extension of MASTER algorithm
14:25 – 14:50	Nirmalya Kajuri	Polymer quantization and rotating detectors
14:50 – 15:15	N. V. Krishnendu	Testing the binary black hole nature of compact binary coalescences using gravitational wave observations
15:15 – 15:30	Aviral Prakash	Effects of non-quadrupolar harmonics on parameter estimation of binary black holes