

Parallel Workshop Session : Classical General Relativity

Venue : Bhaskara 1

Session Chairs : Sushant Ghosh & Sanjay Jhingan

Day 1: 17/12/2007

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|---------------|-----------------|--|
| 14:30 – 14:45 | Amery Gareth | <i>Embeddings of Pseudo-Riemannian space-times</i> |
| 14:45 – 15:00 | Anirban Saha | <i>Gauge invariances vis-à-vis diffeomorphisms in different generally covariant models - A Hamiltonian approach</i> |
| 15:00 – 15:15 | Sunil Maharaj | <i>Generalized Einstein-Maxwell models</i> |
| 15:15 – 15:30 | Raj Bali | <i>Bianchi Type V Magnetized String Dust Bulk Viscous Fluid Cosmological Model with Variable Magnetic Permeability</i> |
| | Tea break | |
| 16:00 – 16:15 | S. Deshingkar | <i>Can we see naked singularities ?</i> |
| 16:15 – 16:30 | U Debnath | <i>Gravitational collapse in Husain space-time</i> |
| 16:30 – 16:45 | R Goswami | <i>Gravitational collapse of dust-like matter with heat flux</i> |
| 16:45 – 17:00 | H Culetu | <i>Anisotropic fluid inside a black hole ?</i> |
| 17:00 – 17:15 | Ayan Chatterjee | <i>Isolated black hole horizons</i> |

Day 2: 18/12/2007

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|---------------|-----------------|--|
| 16:00 – 16:20 | I P Neupane | <i>Physical constraints on Gauss-Bonnet gravity</i> |
| 16:20 – 16:40 | Aseem Paranjape | <i>A covariant road to spatial averaging in cosmology</i> |
| 16:40 – 17:00 | Saeed Otarad | <i>Analytical solution For classical cosmological equation of motion with no singularities</i> |

Parallel Workshop Session : Gravitational waves

Venue : Bhaskara 1

Session Chairs : Sanjay Jhingan & Sushant Ghosh

Day 3: 19/12/2007

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|---------------|--------------------|--|
| 14:30 – 15:00 | Bala R Iyer | <i>Precision cosmology with LISA</i> |
| 15:00 – 15:15 | K. G. Arun | <i>Search for gravitational wave bursts: first all-sky upper limits from Virgo</i> |
| 15:15 – 15:30 | A. S. Sengupta | <i>Search for gravitational waves from compact binary coalescence in LIGO data</i> |
| | Tea break | |
| 16:00 – 16:15 | Sucheta Koshti | <i>Analysis of stable flight formation of LISA</i> |
| 16:15 – 16:30 | Himan Mukhopadhyay | <i>Comparing coincidence and coherent strategies for detecting GW inspiral signals with a network of detectors</i> |
| 16:30 – 16:45 | P. Ajith | <i>A template bank for gravitational waveforms from coalescing binary black holes</i> |
| 16:45 – 17:00 | Sanjit Mitra | <i>Mapping an anisotropic stochastic gravitational wave background</i> |
| 17:00 – 17:15 | S. Deshingkar | <i>Accurate extraction of the news</i> |
| 17:15 – 17:30 | Rajesh Nayak | <i>Tomographic approach to resolving the distribution of LISA galactic binaries</i> |