Session Program

6-9 Dec 2023



10th International Conference on Gravitation and Cosmology: New Horizons and Singularities in Gravity (ICGC 2023)

Workshop on Classical & Quantum Gravity

IIT Guwahati

Wednesday 6 December

Regula	14:45 or spacetimes: black holes, wormholes and bubbles (Invited talk)
Speake Sayan k	
14:45- Influe 1) Speake	nce of gravity on the quantum speed limit in neutrino oscillations (Sessio
Abhishe	
Speake	kipping in holography with scalar-Gauss-Bonnet coupling (Session 2)
15:00- New r 1) Speake Mr Anja	egular black holes: geometry, matter sources and shadow profiles (Session r
Speake	arity free Emergent Universe from Dynamical wormhole (Session 2)
Speake	Thermodynamics of multi-horizon spacetimes (Session 2) r eb Singha
	ational radiation from binary systems in f (R) gravity: A semi-classical ach (Session 1) r
	15:45 The Conspiracy of dS Space in String Theory (?) (Session 2)

Speaker Ms ASTHA KAKKAR

15:45-16:00

An analytical approach to compute conductivity of p-wave holographic superconductors (Session 2)

Speaker

Diganta Parai

15:45-16:00 Effective quantum states for trapped surfaces (Session 1)

Speaker

Ayan Chatterjee

16:00-16:15

Are multiple reflecting boundaries capable of enhancing entanglement harvesting? (Session 2)

Speaker

Dipankar Barman

16:00-16:15

Particle dynamics and new horizon structure around Kerr-Newman singularity (Session 1)

Speaker

Mr Ayanendu Dutta

16:15-16:30 Unruh-de Witt detectors in curved spacetime (Session 2)

Speaker

Hari K

16:15-16:30

Energetics of a self-gravitating quantum system of charged particles (Session 1)

Speaker

BALJEET KAUR LOTTE

Thursday 7 December

	of gravitational collapse of scalar and vector fields: Strong naked es (Session 2)
Speaker Koushiki Bhatt	acharyya
14:30-14:45 Spontaneo	us Symmetry Breaking in Rindler frame and AdS space (Session 1)
Speaker Haridev S R	
14:45-15:00 Boundary ((Session 2) Speaker	terms and Brown-York quasi-local parameters for scalar-tensor theory
Krishnakanta I	
14:45-15:00 Analyzing Speaker Harkirat Singh	quantum gravity spillover in the semiclassical regime (Session 1)
15:00-15:15 Speaker M. V. S. Saketh	
15:00-15:15 Speaker Indranil Chakr	
15:15-15:30 Speaker Muhammed Sl	
15:15-15:30 Speaker Jaffino Starger	

Speaker Mr Nihar Ranjan Ghosh

15:45-16:00

Gravitational collapse with torsion and nonsingular Universe in a black hole (Session 2)

Speaker

Nikodem Poplawski

15:45-16:00

Rindler trajectories and Rindler horizons in the Schwarzschild spacetime (Session 1)

Speaker

Kajol Paithankar

Friday 8 December

Session Loc	ation: IIT Guwahati Conveners: Prof. Swapna Mahapatra, KINJALK LOCHAN
14:15-14:45	est positive cosmological constant has a long tail (Invited Talk)
Speaker	est positive cosmological constant has a long tail (Invited Talk)
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14:45-15:00	
	ng point of general relativity through f(R) scalaron gravity and high Il Kaluza-Klein gravity near Sgr A* (Session 1)
Speaker	in Kaluza-Kielin gravity near Syr A (Session 1)
P.C Lalremruat	i
14:45-15:00	
	cription of marginally trapped regions in D dimensions (Session 2)
Speaker Sashideep Gut	ti
15:00-15:15	Stochastic aspects for cosmic fluids (Session 2)
Speaker	
Seema Satin	
15.00-15.15	<u> </u>
Singularity Speaker	Precession in the Vicinity of a Black Hole's Event Horizon and Naked for Static and Stationary Spacetime (Session 1)
Gyroscopic Singularity	for Static and Stationary Spacetime (Session 1)
Gyroscopic Singularity Speaker Paulami Majum	for Static and Stationary Spacetime (Session 1)
Gyroscopic Singularity Speaker Paulami Majum 15:15-15:30	for Static and Stationary Spacetime (Session 1) Inder Harmonic coordinates in binary black hole mergers (Session 1)
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Speaker

Shauvik Biswas

15:45-16:00

Cosmology of Bianchi type-I metric using renormalization group approach for quantum gravity (Session 1)

Speaker

Rituparna Mandal

16:00-16:15

Extra dimension(s) of vanishing proper length: A non-Einsteinian phase in gravity and the implications (Session 1)

Speaker

sandipan sengupta

16:00-16:15

Raychaudhuri Equation in the Context of a Collapsing Fermionic Distribution Incorporating Effective Four-Fermi Interaction (Session 2)

Speaker

Shibendu Gupta Choudhury

16:15-16:30

Dyonic Kerr-Sen black holes revisited: shadow profiles and consequences (Session 2)

Speaker

Dr Soumya Jana

Saturday 9 December

14:30-15:00 TBD (Invited Talk) Speaker Loganayagam R. 15:00-15:15 Some classical aspects of Ellis-Bronnikov wormholes embedded in a warped background. (Session 2) Speaker Suman Ghosh 15:00-15:15 Gravitational wave memory for various black hole and wormhole geometries (Session 1) Speaker Soumya Bhatacharya 15:15-15:00 Quantum-to-classical transition of leading-order background fluctuations (Session 1) Speaker Sree Mahesh Chandran 15:15-15:30 Analytic three-dimensional hairy charged black holes and thermodynamics (Session 2) Speaker Supray priyadarshinee 11:30-15:45 Analytic three-dimensional hairy charged black holes and thermodynamics (Session 2) Speaker Suprayan priyadarshinee 15:30-15:45 An Effective Theory model for Black Hole Membranes from Constraints of Symmetry (Session 2) Speaker Swastik Bhattacharya 15:30-15:45 Love for an Expanding universe and SdS black holes (Session 1) Speaker Sreejith Nair 15:30-15:45 In Gravity Theories: Asymptotic Symmetries and Celestial Holography (Session 2) Speaker Symetry Compares and Celestial Holography (Session 2)		
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15:45-16:00 A detection mechanism for black hole memory effect (Session 1)

Speaker

Srijit Bhattacharjee

16:00-16:15

Radiative processes of single and entangled detectors on circular trajectories in (2+1) dimensional Minkowski spacetime (Session 1)

Speaker

Subhajit Barman

16:00-16:15

Particle creation in a dynamical gravitational wave background (Session 2)

Speaker

Tanmoy Chakraborty

16:15-16:30

Perturbing the perturbed: Quasi-normal mode instability in asymptotically de Sitter black holes (Session 1)

Speaker

Subhodeep Sarkar

16:15-16:30

High-energy corrections to CGHS model: a systematic procedure (Session 2)

Speaker

Tausif Parvez

16:30-16:45

On the propagation of gravitational waves in matter-filled Bianchi I universe (Session 1)

Speaker

Sucheta Datta

16:30-16:45

Emergent Spin in Quantum Cosmology of Bianchi Type-I Universe (Session 2)

Speaker

vishal kumar