	IAGRG32 @ IISER Kolkata					
All ta	alks of d	uration 8 min + 2 r	min: All flash talks are of duration 2 min.			
	Parallel Session: PS1 : 19/12/2022 14:30					
PS1: Cla	: Classical and Quantum Gravity 1 Venue: G02 A P C Ray LHC					
			Chairs: Sudipta Sarkar and Amitabh Virmani			
	Talks					
	time	Name	Title			
	14:30	Kumari Sammy	Chaotic Characteristics Of Black Holes			
	14:40	Sumit Dey	Fluid dynamical interpretation of the Einstein-Cartan field equations with respect to a generic null hypersurface			
	14:50	Pritam Nanda	Supertranslation transition between quasilocal black holes			
	15:00	Sauvik Sen	Investigating artificial Hawking radiation for a weak pseudo Hermitian model			
	15:10	Dr Goutam Manna	Hawking radiation with the dynamical horizon in the K-essence emergent spacetime			
	15:20	Sanjeev Kalita	f(R) gravity scalarons near the Galactic Centre black hole, Sgr A*			
	Flash Talks					
	15:30	Sabyasachi Maulik	Remarks on holographic entanglement in an asymptotically Lifshitz space-time			
	15:32	Pabitra Tripathy	Hawking radiation as quantum mechanical reflection			
	15:34	Susovan Maity	Carter-Penrose diagrams for Emergent Spacetime in Axisymmetrically Accreting Black Hole Systems			
	15:36	Avijit Chowdhury	Massive spin-2 mode carries more energy than spin-0 mode in quadratic gravity			
PS1: Cla	assical and C	Quantum Gravity 2	Venue: G08 A P C Ray LHC			
			Chairs: Sudipta Sarkar and Amitabh Virmani			
	Talks					
	time	Name	Title			
	time 14:30	Name Prashant Kocherlakota	Title Testing the Spacetime Metric of Sagittarius A* with the 2017 Event Horizon Telescope Observations			
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	14:30	Prashant Kocherlakota	Testing the Spacetime Metric of Sagittarius A* with the 2017 Event Horizon Telescope Observations			
	14:30 14:40	Prashant Kocherlakota Raghvendra Singh	Testing the Spacetime Metric of Sagittarius A* with the 2017 Event Horizon Telescope Observations Covariant formulation of Generalised Uncertainty Principle			
	14:30 14:40 14:50	Prashant Kocherlakota Raghvendra Singh Suman Kumar Panja	Testing the Spacetime Metric of Sagittarius A* with the 2017 Event Horizon Telescope Observations Covariant formulation of Generalised Uncertainty Principle Maximal Acceleration in DFR space-time			
	14:30 14:40 14:50 15:00	Prashant Kocherlakota Raghvendra Singh Suman Kumar Panja Saraswati Devi	Testing the Spacetime Metric of Sagittarius A* with the 2017 Event Horizon Telescope Observations Covariant formulation of Generalised Uncertainty Principle Maximal Acceleration in DFR space-time Shadow of a Black Hole in Loop Quantum Gravity and its super-radiance property Torsion in the Lorentzian path integral quantum cosmology of inflationary and bouncing			
	14:30 14:40 14:50 15:00	Prashant Kocherlakota Raghvendra Singh Suman Kumar Panja Saraswati Devi Vikramaditya Mondal	Testing the Spacetime Metric of Sagittarius A* with the 2017 Event Horizon Telescope Observations Covariant formulation of Generalised Uncertainty Principle Maximal Acceleration in DFR space-time Shadow of a Black Hole in Loop Quantum Gravity and its super-radiance property Torsion in the Lorentzian path integral quantum cosmology of inflationary and bouncing models			
	14:30 14:40 14:50 15:00 15:10	Prashant Kocherlakota Raghvendra Singh Suman Kumar Panja Saraswati Devi Vikramaditya Mondal Arpan Kundu	Testing the Spacetime Metric of Sagittarius A* with the 2017 Event Horizon Telescope Observations Covariant formulation of Generalised Uncertainty Principle Maximal Acceleration in DFR space-time Shadow of a Black Hole in Loop Quantum Gravity and its super-radiance property Torsion in the Lorentzian path integral quantum cosmology of inflationary and bouncing models Generalized BMS algebra in higher even dimensions Role of thermal field in entanglement harvesting between two accelerated Unruh-DeWitt detectors			
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PS1: Co	14:30 14:40 14:50 15:00 15:10 15:20 15:30	Prashant Kocherlakota Raghvendra Singh Suman Kumar Panja Saraswati Devi Vikramaditya Mondal Arpan Kundu	Testing the Spacetime Metric of Sagittarius A* with the 2017 Event Horizon Telescope Observations Covariant formulation of Generalised Uncertainty Principle Maximal Acceleration in DFR space-time Shadow of a Black Hole in Loop Quantum Gravity and its super-radiance property Torsion in the Lorentzian path integral quantum cosmology of inflationary and bouncing models Generalized BMS algebra in higher even dimensions Role of thermal field in entanglement harvesting between two accelerated Unruh-DeWitt detectors Venue: G05 A P C Ray LHC Chair: Sudipta Das			
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Flash Tal	ks	
15:30	Dr Dibyendu Panigrahi	Towards an exact solution of Chaplygin gas dominated model in Higher dimension Cosmology: an alternative approach
15:32	Kaustubh Rajesh Gupta	Investigating the effects of statistical scatter on measurement of secondary hald using nearest-neighbor measurements
15:34	Shouvik Roy Choudhury	Massive neutrino interactions, Hubble tension, and inflation
15:36	Ashmita	Inflationary Cosmology in the Modified f(R, T) Gravity.
15:38	Kaushik Sarkar	Wormhole inducing inflation in Kaluza Klein cosmology
smology 2	2	Venue: G06 A P C Ray LHC
<u> </u>		Chair: Surhud S More
Talks		
time	Name	Title
14:30	Dr. Richa Arya	Probing the small-scale physics of warm inflation from primordial black holes
14:40	Md Riajul Haque	Gravitational production during reheating phase: the possibility of purely Graviteheating
14:50	Yashi Tiwari	Understanding large scale CMB anomalies with the generalized non-minimal der coupling during inflation
15:00	Souvik Jana	Cosmography using strongly lensed gravitational waves from binary black holes
15:10	Sreenath V	Anomalies in the cosmic microwave background and their non-Gaussian origin
15:20	Sambo Sarkar	Halo uncertainties in dark matter capture within celestial objects
Flash Tal	ks	
15:30	Avinanda Chakraborty	Characterizing Quasar Feedback Modes with the Sunyaev-Zeldovich Effect
15:32	Trupti Patil	Dynamics of interacting scalar field model in the realm of chiral cosmology
15:34	P. Jishnu Sai	On the primordial correlation of gravitons with gauge fields
15:36	Biswajit Deb	Natural potential driven inflation in f(φ,T) gravity theory
15:38	Moreshwar Tayde	Wormhole solutions in f(Q,T) gravity with a radial dependent B parameter
		7,000
avitation	al Waves	Venue: 103 A P C Ray LHC
		irs: Debarati Chatterjee and Chandrakant Misra
Talks	0.10	oletterjee and chandrate misra
time	Name	Title
14:30	Bhaskar Biswas	Constraining the equation of state of neutron stars using multimessenger observ
14:40	Suprovo Ghosh	Constraining the Neutron star EOS using recent information from multidisciplina physics.
14:50	Sourabh Magare	Early-Warning of Lensed Compact Binary Coalescence Events with Electromagn Counterparts
15:00	Samanwaya Mukherjee	Measurability of the horizon parameters to tell apart black holes in a compact be coalescence
15:10	Krishnendu N V	Interplay of spin-precession and higher harmonics in the parameter estimation of binary black holes
15:20	Apratim Ganguly	Microlensed gravitational wave signals: biases and degeneracies
Flash Tal	ks	
	Anushka Doke	Detection and Reconstruction of Gravitational Waves from Core-Collapse Superr
15:30		Gravitational wave phase from intermediate mass ratio inspirals of compact bin black hole systems.
15:30 15:32	M Laxman	black flore systems.
	M Laxman Srashti Goyal	, , , , , , , , , , , , , , , , , , ,
15:32		Probing gravitational waves birefringence as a test of general relativity relativity
15:32 15:34	Srashti Goyal	Probing gravitational waves birefringence as a test of general relativity relativiusing GWTC-3
15:32 15:34 15:36	Srashti Goyal Kartikey Sharma	Probing gravitational waves birefringence as a test of general relativity relativiusing GWTC-3 Gravitational Waveform Hybridisation Waltzing binaries: Probing the non-rectilinear proper motion of merging compact

elativistic Astrophysics		Venue: 110 A P C Ray LHC
		Chair: Aru Beri
Talks		
time	Name	Title
14:30	Monu Singh	Dissipative accretion flow around black holes with viscosity α as a function of radial distance.
14:40	Sk Md Adil Imam	Connecting neutron star properties to nuclear matter parameters
14:50	Prantik Sarmah	High energy sky of neutrinos and gamma-rays fabricated by young supernovae
15:00	Seshadri Majumder	Spectro-tempTalk correlation studies of BH-ULXs with XMM-Newton and possible accretion scenarios
15:10	Ashu Kushwaha	A viable model to explain the Fast radio burst using the Gertsenshtein-Zel'dovich effe
15:20	Parthasarathi Majumdar	Gravitational Larmor precession
15:30	Ritik Sharma	Accretion onto Supermassive Black holes
Flash Tal	ks	
15:40	Koushik Ballav Goswami	Effect of strange quark mass on the value of maximum mass of strange quark star
15:42	Amit Kumar	Neutrino dominated accretion flow around rotating black hole
15:44	Satarupa Barman	Critical compactness bound in modified Tolman VII solution

	Parallel Session: PS2 : 19/12/2022 16:15					
PS2: Classical and	Quantum Gravity 1	Venue: G02 A P C Ray LHC				
	(Chairs: Sudipta Sarkar and Amitabh Virmani				
Talks						
time	Name	Title				
16:15	Ayanendu Dutta	Does violation of cosmic no-hair conjecture guarantee the existence of wormhole?				
16:25	Harkirat Singh Sahota	Analyzing quantum gravity spillover in the semiclassical regime				
16:35	Aditya Singh	Central Charge Criticality of AdS Black Holes in Massive Gravity				
16:45	Surojit Dalui	A tale of two phenomena: Instability and Thermality, in the near horizon region				
16:55	Subhajit Barman	Entanglement harvesting from conformal vacuums between two Unruh-DeWitt detectors moving along null paths				
17:05	Indranil Chakraborty	Memory effects in radiative spacetimes of Eddington-inspired Born-Infelfd gravity				
Flash Tall	ks					
17:15	Pabitra Gayen	Quasinormal Modes in 2D Stringy Black Hole				
17:17	Shauvik Biswas	Echoes From Wormholes				
17:19	Rajesh Karmakar	Ringing black holes are superradiant: The case of ultralight scalar fields				
PS2: Classical and	Quantum Gravity 2	Venue: G08 A P C Ray LHC				
	(Chairs: Sudipta Sarkar and Amitabh Virmani				
Talks	1					
time	Name	Title				
16:15	Dhritimalya Roy	The role of closed timelike curves in particle motion within Cylindrically Symmetric Spacetimes.				
16:25	Nobleson K	Tidal deformability of neutron stars with exotic particles within a density dependent relativistic mean field model in R squared gravity				
16:35	Semin Xavier	Analytical model for evaporating primordial black holes.				
16:45	Poulami Dutta Roy	Generalised Hayward spacetimes: geometry, matter and scalar perturbations				
16:55	Kabir Chakravarti	Non-uniform Area Quantisation in Black Holes				
17:05	Sayan Kar	Wormholes, the Witten bubble and a warped extra dimension				
17:15	Sumanta Chakraborty	Gravitational multipole moments for asymptotically de Sitter spacetimes				
PS2: Cosmology 1	<u> </u>	Venue: G05 A P C Ray LHC				
		Chair: Somasri Sen				
Talks						
time	Name	Title				
16:15	Priyanka Gawade	Constraining the nature of dark matter using gravitational lensing parallax				
16:25	Rathul Nath Raveendran	Quantum evolution of cosmological perturbations in mutli-field inflationary models				
16:35	Ronit Karmakar	Quasinormal Modes and Thermodynamics of a GUP based Schwarzschild black hole with Quintessence				
16:45	Akash Kumar Saha	Sensitivities on non-spinning and spinning primordial black hole dark matter with global 21 cm troughs				
16:55	Anupama B	A viable solution to the Hubble tension from quantum gravity				
17:05	Subhabrata Majumdar	Hubble from Bubble				

Flash Tall	(S	
17:15	Sourav Pal	Probing Non-classicality of Primordial Gravitational Waves and Magnetic Field T Quantum Poincare Sphere
17:17	Nitin Joshi	Non-perturbative analysis for a massless minimal quantum scalar with an asymmetric self interaction in the inflationary de Sitter spacetime
17:19	Dr. Sebika Kangsha Banik	A dynamical system analysis of Bianchi III cosmology in Hu-Sawicki f(R) modified theory
17:21	Gaurav Narayanrao Gadbail	Power-law cosmology in Weyl type f(Q,T) gravity
17:23	Sanjay Mandal	Constraint on the equation of state parameter (w) in non-minimally coupled f(Q)
smology 2	,	Venue: G06 A P C Ray LHC
Sillology 2	•	Chair: Surhud S More
Talks		
time	Name	Title
16:15	H. V. Ragavendra	Suppressing Moduli production During Preheating
16:25	Nur Jaman	Primordial Black Holes in Warm Inflation
		Imprints of primordial non-Gaussianity in the cosmic microwave background fron
16:35	Roshna K	quantum cosmology
16:45	Dr. Akshay Rana	Examining the temporal variation of Fermi Coupling Constant using Type Ia SNe
16:55	Priyanka Adhikary	Cosmological dynamics of non-zero Barrow Holographic Dark Energy
17:05	Upala Mukhopadhyay	Probing interacting Dark Energy models and scattering of baryons with Dark Mathe light of 21cm signal
Flash Tall	(S	
17:15	Akash Bose	A new Fractal gravity model in context of Warm Inflation
17:17	Khursid Alam	Effects of Reheating on Moduli Stabilization
17:19	Sangita Goswami	Quintessence or phantom: Study of scalar field dark energy models through a ge parametrization of the Hubble parameter
17:21	Lakhan V. Jaybhaye	Constraining viscous dark energy equation of state in f(R,L_m) gravity
17:23	Bihag Dave	Constraints on the mass and self-coupling of Ultra-Light Scalar Field Dark Matter observational limits on galactic central mass
avitationa	l Waves	Venue: 103 A P C Ray LHC
		rs: Debarati Chatterjee and Chandrakant Misra
Talks	<u> </u>	s posticit diactorjec and diana and made
time	Name	Title
		Plausible detection of rotating magnetized neutron stars by their continuous
16:15	Mayusree Das	gravitational waves
16:25	Shalabh Gautam	Spherical Einstein Field Equations on Hyperboloidal Slices
16:35	Uddeepta Deka	Fast and accurate parameter estimation of gravitationally lensed gravitational-signals
16:45	Aditya Kumar Sharma	Prospects for the observation of continuous gravitational waves from spinning n stars lensed by the galactic supermassive black hole
16:55	Anuj Mishra	Gravitational Lensing of Gravitational Waves: Effect of microlensing on the dete and parameter estimation of GWs
17:05	Koustav Chandra	Hunting for intermediate-mass black hole binary with higher-order modes
Flash Tall	· · · · · · · · · · · · · · · · · · ·	-
17:15	Akash Maurya	Frequency-domain reduced order gravitational-wave models for coalescing binar
17:17	Kaustubh Rajesh Gupta	Measuring Earths Motion Using a Population of Gravitational-Wave Sources
17:19	Satyabrata Datta	Fingerprints of low-scale leptogenesis in primordial blue-tilted GW spectrum
17:21	Swati Singh	Measuring beyond-GR effects from Gravitational wave observations
17:23	Sayantan Ghosh	Confusing Tomtes with Intermediate Mass Black Hole Binaries
17:25	Souradeep Pal	Swarm-intelligent search for gravitational waves from eccentric binary mergers
17:27	Ankur Barsode	Constraining compact dark matter using the non-observation of strong lensing o
I	L	gravitational waves

lativistic	Astrophysics	Venue: 110 A P C Ray LHC
		Chair: Aru Beri
Talks		
time	Name	Title
16:15	Shilpa Sarkar	Two-Temperature Accretion Flows Around Compact Objects
16:25	Gargi Sen	Study of the relativistic accretion flow in a Kerr-Taub-NUT black-hole with shock
16:35	Bikram Keshari Pradhan	Impact of updated Multipole Love and f-Love Universal Relations in context of Binar Neutron Stars
16:45	Brijesh Kanodia	Faint light of old neutron stars from dark matter capture and detectability at the James Webb Space Telescope
16:55	Susobhan Mandal	Equation of states in the curved spacetime of compact degenerate stars
17:05	Muhammed Shafeeque	Effect of quark deconfinment in a few neutron star models
17:15	Arka Chatterjee	The extreme environment around Galactic black holes: A Relativistic Spectroscopic Study with GRS 1758-258 and MAXI J1728-36
Flash Tal	ks	
17:25	Anirban Saha	Anisotropic strange quark star and its maximum mass in presence of charge
17:27	Bishnu Das	Core-envelope Structure of Anisotropic Strange Star in Vaidya-Tikekar model
17:29	Camelia Jana	Estimation of mass outflow rates from magnetized accretion disc around rotating b

	Parallel Session: PS3 : 20/12/2022 14:30				
PS3: Cla	ssical and Q	uantum Gravity 1	Venue: G02 A P C Ray LHC		
		C	hairs: Sudipta Sarkar and Amitabh Virmani		
	Talks				
	time	Name	Title		
	14:30	Suraj Maurya	Evolution of maximal hypersurface in a dynamical spacetime		
	14:40	Saikhom Johnson Singh	Area spectrum of non-rotating BTZ black hole		
	14:50	Sreejith A Nair	Dynamical Love for area quantized black holes		
	15:00	Astha Kakkar	Analysis of phases of scalar field theories in thermal Anti-de Sitter Spaces		
	15:10	G Suvikranth	Degenerate 2-D gravity theory		
	15:20	Mostafizur Rahman	The prospect of distinguishing stellar-mass compact objects in extreme mass ratio inspiral system with LISA		
	15:30	Ranchhaigiri Brahma	Trajectory of light in the field of static object with quadrupole moment		
	15:40	Dr. Bikash Chandra Paul	Creation of the Universe through Dynamical wormhole		
	15:50	Prof. Dr. Sarbari Guha	Gravitational entropy of accelerating black holes and traversable wormholes		
PS3: Cla	ssical and Q	uantum Gravity 2	Venue: G08 A P C Ray LHC		
		C	hairs: Sudipta Sarkar and Amitabh Virmani		
	Talks				
	time	Name	Title		
	14:30	Anshuman Baruah	Quasinormal Modes of Modified Black Holes in Einstein-Kalb-Ramond Gravity		
	14:40	Karthik Rajeev	Wavefunction of the Universe as a sum over `eventually inflating universes'		
	14:50	Esha Bhatia	Investigating alternative gravity models for the Dark Matter deficit galaxies using Velocity Dispersion.		
	15:00	Ayan Chatterjee	Boundary data for a quantum horizon		
	15:10	Parthasarathi Majumdar	Holographic Lower Bound on Binary Coalescence Remnant Cross-sectional Area		
	15:20	Md Sabir Ali	Stationary black holes and stars in the Brans-Dicke theory with \$\Lambda >0\$ revisited		
	15:30	Prashant Kocherlakota	Photon Rings in Spherically-Symmetric Black Hole Spacetimes and Future Tests of Gravity		
PS3: Co	smology 1		Venue: G05 A P C Ray LHC		
			Chair: Suchetana Chatterjee		
	Talks				
	time	Name	Title		
	14:30	Suvedha Suresh Naik	Primordial features due to particle production during inflation: latest constraints and prospects		
	14:40	Joy Bhattacharyya	The Signatures of Self-interacting Dark Matter and Subhalo Disruption on Cluster Substructure		
	14:50	Shahnawaz Aryan Adil	Is there an Evidence of Negative Cosmological Constant through recent cosmological observations?		
	15:00	Amlan Chakraborty	Formation and Abundance of Late Forming Primordial Black Holes as Dark Matter		
	15:10	Basundhara Ghosh	Alleviating the Hubble tension within the framework of Horndeski theory		
	15:20	Santosh Vijay Lohakare	Constraining the cosmological parameters of modified Teleparallel-Gauss-Bonnet model		
	15:30	Sohini Dutta	Interpretation of Multiwavelength Observations of the Epoch of Reionization from next generation telescopes		

smology 2	2	Venue: G06 A P C Ray LHC
		Chair: Susmita Adhikari
Talks		
time	Name	Title
14:30	Shruti Bhatporia	Gravitational Lensing forcasts for HIRAX
14:40	Nilanjandev Bhaumik	Gravitational wave background to probe primordial black hole domination in the earl universe
14:50	Priyank Parashari	Lyman-\$\alpha\$ constraints on the primordial black hole dark matter
15:00	Prasanta Kumar Das	Matter Bounce scenario in Modified f(R,T) Gravity
15:10	Suman Pramanick	Quantifying and mitigating the effect of snapshot intervals in the light-cone EoR 21-cr signal
15:20	Subinoy Das	Possible role of neutrino in Hubble tension
15:30	Simran Arora	Effective equation of state in modified gravity and observational constraints
15:40	Anirban Roy	Astrophysics and Cosmology with Multi-line Intensity Mapping

ravitation	al Waves	Venue: 103 A P C Ray LHC	
	Chai	irs: Debarati Chatterjee and Chandrakant Misra	
Talks			
time	Name	Title	
14:30	Divyajyoti	Eccentric binary systems in the upcoming gravitational wave observing run	
14:40	Pratik Tarafdar	The Indian Pulsar Timing Array: Joining the global hunt for nanohertz gravitations waves and related sciences	
14:50	Kaushik Paul	Spin effects in spherical harmonic modes of the gravitational waveform for eccent compact binary mergers	
15:00	Shamim Haque	Effects of Phase Transition in Gravitational Wave signals from Binary Neutron Sta Mergers	
15:10	Pratyusava Baral	Localization of BNS Events using only One Cosmic Explorer	
15:20	Akash Kumar Mishra	Testing GR and beyond GR physics with gravitational wave observations	
15:30	Sajad Ahmad Bhat	Multi-messenger astronomy using Intermediate Mass Binary Black holes in the LIS band	
15:40	Sayantani Datta	Strong-field tests of general relativity using LISA: Role of principal component ana	
15:50	Sajal Mukherjee	Resonance crossing in an extreme mass ratio inspiral (EMRI): possible implications GW astronomy	
elativistic	Astrophysics	Venue: 110 A P C Ray LHC	
_		Chair: Aru Beri	
Talks			
time	Name	Title	
14:30	Akhil Uniyal	Study of the accretion disk properties around the black hole in the modified gravi	
14:40	Subhankar Patra	Properties of accretion flow in deformed Kerr spacetime	
14:50	Sudip Kumar Garain	Three Dimensional Simulations of Advective, Sub-Keplerian Accretion Flow onto Norotating Black Holes	
15:00	Mayur Shende	Relativistic particle-dominated winds from Advection-Dominated Accretion Flows	
15:10	Indranil Chattopadhyay	Effect of plasma composition in accretion and jets around black holes	
15:20	Abhishek Dubey	Search for dark matter using sub-PeV gamma-rays observed by Tibet ASy	
15:30	Shantanu Desai	Search for high energy neutrinos from FRBs and pulsars	
15:40	Arijit Sar	Theoretical Modeling of the Accretion Disk-Corona System in Active galactic Nucle Interpret X-ray-Ultraviolet Observations.	

Parallel Session: PS4 : 21/12/2022 14:30				
assical and	Quantum Gravity 1	Venue: G02 A P C Ray LHC		
Chairs: Sudipta Sarkar and Amitabh Virmani				
Talks				
time	Name	Title		
14:30	Paulami Majumder	Gyroscopic Precession in the Vicinity of a Static Black Hole Event Horizon and a Na Singularity		
14:40	Shibendu Gupta Choudhury	The Raychaudhuri equation for a quantized timelike geodesic congruence		
14:50	Samarjit Chakraborty	An investigation on gravitational entropy of cosmological models		
15:00	Susmita Jana	Electromagnetic memory in generic curved space-times using covariant approach		
15:10	Sunil Maharaj	Canonical structures in EGB gravity		
15:20	Nandita Lahkar	Recent tests of general relativity and associated problems		
15:30	Soumya Jana	Testing the vDVZ discontinuity in Massive Gravity theories using compact binary systems		
assical and	Quantum Gravity 2	Venue: G08 A P C Ray LHC		
	Ch	airs: Sudipta Sarkar and Amitabh Virmani		
time	Name	Title		
14:30	Telem Ibungochouba Singh	Hawking radiation of Kerr-Newman black hole in Lorentz symmetry violation theo		
14:40	Rajes Ghosh	Constraining the topological Gauss-Bonnet coupling from GW150914		
14:50	Chiranjeeb Singha	Strong cosmic censorship conjecture for a charged BTZ black hole		
15:00	Pawan Joshi	Higher Derivative Scalar Tensor Theory in Unitary Gauge		
15:10	Arpan Krishna Mitra	Multi-criticality and related bifurcation in accretion discs around non-rotating blacholes, an analytical study		
15:20	Shailesh Kumar	Nature of secondaries in extreme mass-ratio inspirals		
15:30	Vishnu Rajagopal	Unruh effect in non-commutative space-times		
osmology 1	l	Venue: G05 A P C Ray LHC		
_		Chair: Sudipta Das		
Talks				
time	Name	Title		
14:30	Tuhin Ghosh	Application of Bayesian Inference to disentangle CMB foregrounds		
14:40	Ramkishor Sharma	Magnetohydrodynamics predicts heavy-tailed distributions of axion-photon conver		
14:50	Suvashis Maity	Scalar-tensor-tensor three-point function in scenarios involving ultra slow roll infla		
15:00	Debika Kangsha Banik	Cosmological Dynamics of Bianchi I model in Palatini f(R) Gravity		
15:10	Debasish Majumdar	Primordial Gravitational Wave Signatures from Domain Wall and Strong First-Ord Phase Transitions		
15:20	Tathagata Ghosh	Simultaneous Inference of Neutron Star Equation of State and Hubble Constant fro Population of Merging Neutron Stars		

osmology 2	2	Venue: G06 A P C Ray LHC
		Chair: Anupreeta More
Talks		
time	Name	Title
14:30	Sagarika Tripathy	Magnetogenesis in inflationary models leading to features: Challenges and possible resolutions
14:40	Abhishek Naskar	A Unified EFT Approach to Understand Primordial Magnetogenesis
14:50	Manosh T. M.	Renyi holographic dark energy from the laws of horizon thermodynamics.
15:00	Ajay Bassi	Skewness as a Probe for Bimetric Theories
15:10	Dipayan Mukherjee	Bouncing and collapsing universes dual to late-time cosmological models
15:20	Ravi Kumar Sharma	Signatures of Light Massive Relics on nonlinear structure formation

	Poster List			
	Venue: A P C Ray LHC			
SI no	Name	Title		
1	Akash Bose	A new Fractal gravity model in context of Warm Inflation		
2	Khursid Alam	Effects of Reheating on Moduli Stabilization		
3	Souray Pal	Probing Non-classicality of Primordial Gravitational Waves and Magnetic Field Through		
4	Dr Dibyendu Panigrahi	Quantum Poincare Sphere Towards an exact solution of Chaplygin gas dominated model in Higher dimensional		
5	Kaustubh Rajesh Gupta	Cosmology: an alternative approach Investigating the effects of statistical scatter on measurement of secondary halo bias		
6	Avinanda Chakraborty	using nearest-neighbor measurements Characterizing Quasar Feedback Modes with the Sunyaev-Zeldovich Effect		
7	Trupti Patil	-		
	Shouvik Roy Choudhury	Dynamics of interacting scalar field model in the realm of chiral cosmology		
8	· · · · · · · · · · · · · · · · · · ·	Massive neutrino interactions, Hubble tension, and inflation		
9	P. Jishnu Sai	On the primordial correlation of gravitons with gauge fields		
10	Sangita Goswami	Quintessence or phantom: Study of scalar field dark energy models through a general parametrization of the Hubble parameter		
11	Ashmita	Inflationary Cosmology in the Modified f(R, T) Gravity.		
12	Kaushik Sarkar	Wormhole inducing inflation in Kaluza Klein cosmology		
13	Biswajit Deb	Natural potential driven inflation in f(φ,T) gravity theory		
14	Moreshwar Tayde	Wormhole solutions with density-dependent MIT bag model in generalized symmetric teleparallel gravity		
15	Nitin Joshi	Non-perturbative analysis for a massless minimal quantum scalar with an asymmetric self interaction in the inflationary de Sitter spacetime		
16	Dr. Sebika Kangsha Banik	A dynamical system analysis of Bianchi III cosmology in Hu-Sawicki $$ f(R) modified gravity theory		
17	Lakhan V. Jaybhaye	Constraining viscous dark energy equation of state in f(R,Lm) gravity		
18	Bihag Dave	Constraints on the mass and self-coupling of Ultra-Light Scalar Field Dark Matter using observational limits on galactic central mass		
19	Gaurav Narayanrao Gadbail	Power-law cosmology in Weyl type f(Q,T) gravity		
20	Laxmipriya Pati	Hamilton's equations in the (covariant) teleparallel equivalent of general relativity		
21	Darshan Kumar	The Cosmic Triangle and Hubble Phase Space Portraits: A novel approach of revisiting the transition redshift.		
22	Sonali Borah	A Comparative Analysis of Dark Energy Models from observations		
23	Tanmay Kumar Poddar	Energizing gamma ray bursts via Z' mediated neutrino heating		
24	Tanima Duary	Phase Transition of a Cosmological Model that mimics LambdaCDM model		
25	Roshni Bhaumik	Noether Symmetry analysis in Chameleon Field Cosmology		
26	Brijesh Kanodia	Faint light of old neutron stars from dark matter capture and detectability at the James Webb Space Telescope		
27	Dipankar Laya	Quantum Cosmology in Coupled Brans-Dicke Gravity: A Noether Symmetry Analysis		
28	Arijit Panda	f(R,T) gravity in the context of dark energy		
29	Soumen Nayak	Shock formation in magnetized wakes of cosmic strings.		
30	Omkar Sanjay Shetye	Influence Phase of a de Sitter Observer		
31	Sanjay Mandal	Constraint on the equation of state parameter (w) in non-minimally coupled f(Q) gravity		
32	Pabitra Gayen	Quasinormal Modes in 2D Stringy Black Hole		
33	Sabyasachi Maulik	Remarks on holographic entanglement in an asymptotically Lifshitz space-time		
34	Pabitra Tripathy	Hawking radiation as quantum mechanical reflection		
35	Manjeet Kaur	Pre-inflationary bounce : using two fields		
36	Shagun Kaushal	Background electromagnetic field and accelerated observer		
37	Uttaran Ghosh	Vaidya-like exterior solution and formation of singularity in f(R,T) theory of gravity		
38	Sayantan Ghosh	Casimir Wormholes in Modified Symmetric Teleparallel Gravity		
39	Sasmita Kumari Pradhan	Little rip scenario in Brans-Dicke theory		
40	Haridev S R	Revisiting Vacuum Energy in Compact Spacetimes		
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41	Hari K	Tidal vs absolute acceleration effects on accelerated probes
42	Soham Bhattacharyya	Post Newtonian treatment of a quadratic theory of gravity
43	Madhukrishna Chakraborty	The study of Raychaudhuri Equation and geodesic congruences in f(R) gravity constructed in inhomogeneous FLRW spacetime.
44	Arnab Chakraborty	Chiral Torsion and Parity Violation
45	Udit Narayan Chowdhury	Advances in Holographic Schwinger Effect
46	Dr. Irom Ablu Meitei	Thermodynamics of Schwarzschild black hole surrounded by quintessence
47	Subhadip Sau	Signatures of regular black holes from the shadow of Sgr A* and M87*
48	Vaibhav Kalvakota	Weyl entropy behaviour and Naked Singularities
49	Soumik Bhattacharya	Probing Of Relativistic Star In Einstein Gauss Bonnet Gravity
50	Subhasis Nalui	Morris-Thorne Wormhole
51	Susovan Maity	Carter-Penrose diagrams for Emergent Spacetime in Axisymmetrically Accreting Black Hole Systems
52	Debadri Bhattacharjee	Gravastar-An Alternative Manifestation of BlackHole?
53	Avijit Chowdhury	Massive spin-2 mode carries more energy than spin-0 mode in quadratic gravity
54	Poulami Dutta Roy	Axial perturbation of a wormhole family and their triple barrier potential
55	Shauvik Biswas	Echoes From Wormholes
56	Sucheta Datta	Propagation of Axial and Polar Gravitational Waves in matter-filled Bianchi I Universe
57	Rajesh Karmakar	Ringing black holes are superradiant: The case of ultralight scalar fields
58	Akash Maurya	Frequency-domain reduced order gravitational-wave models for coalescing binaries
59	Anushka Doke	Detection and Reconstruction of Gravitational Waves from Core-Collapse Supernovae
60	M Laxman	Gravitational wave phase from intermediate mass ratio inspirals of compact binary black hole systems.
61	Srashti Goyal	Probing gravitational waves birefringence as a test of general relativity relativity using GWTC-3
62	Kaustubh Rajesh Gupta	Investigating the effects of statistical scatter on measurement of secondary halo bias using nearest-neighbor measurements
63	Kartikey Sharma	Gravitational Waveform Hybridisation
64	Avinash Tiwari	Waltzing binaries: Probing the non-rectilinear proper motion of merging compact objects with gravitational waves
65	Satyabrata Datta	Fingerprints of low-scale leptogenesis in primordial blue-tilted GW spectrum
66	Anagh Venneti	Study of correlation between Tidal Deformability and Nuclear Matter Parameters
67	Prof. Dr. Sarbari Guha	Gravitational entropy of accelerating black holes and traversable wormholes
68	Swati Singh	Measuring beyond-GR effects from Gravitational wave observations
69	Sayantan Ghosh	Casimir Wormholes in Modified Symmetric Teleparallel Gravity
70	Sajal Mukherjee	Detecting gravitational waves from hyperbolic encounters
71	Souradeep Pal	Swarm-intelligent search for gravitational waves from eccentric binary mergers
72	Anirban Saha	Anisotropic strange quark star and its maximum mass in presence of charge
73	Koushik Ballav Goswami	Effect of strange quark mass on the value of maximum mass of strange quark star
74	Bishnu Das	Core-envelope Structure of Anisotropic Strange Star in Vaidya-Tikekar model
75	Amit Kumar	Neutrino dominated accretion flow around rotating black hole
76	Camelia Jana	Estimation of mass outflow rates from magnetized accretion disc around rotating black holes
77	Satarupa Barman	Critical compactness bound in modified Tolman VII solution
78	Siddheshwar Atmaram Kadam	Teleparallel scalar-tensor gravity through cosmological dynamical systems