

ASI 2020 – List of Selected Abstracts in General Relativity and Cosmology

Firstname	Last Name	Conference ID	Affiliation	Title	Decision by SOC
Surhud	More	ASI2020_53	IUCAA	Cosmological constraints from weak lensing surveys	Invited (Plenary)
Tarun	Souradeep	ASI2020_42	IISER-Pune	LIGO-India: a mega-science (ad)venture underway	Invited
A	Gopakumar	ASI2020_465	TIFR, Mumbai	Blazar OJ287 and its nano-Hertz GW emitting massive BH binary central engine	Invited
Jasjeet	Bagla	ASI2020_382	IISER Mohali	Dark Energy Perturbations in Non-Linear Collapse	Invited
Darshan	Kumar	ASI2020_100	Department of Physics and Astrophysics, University of Delhi, Delhi-110007	Constraint on galaxy parameters from strong gravitational lensing	Oral
Akash	Kumar Patwa	ASI2020_216	RRI	The 21-cm Signal Power Spectrum using Drift Scan: Correlation of Time-ordered Visibilities	Oral
Karthik	Rajeev	ASI2020_85	IUCAA, PUNE	Generalized Schwinger effect and particle production in an expanding universe	Oral
Archana	Sangwan	ASI2020_316	Indian Institute of Technology Bombay	Primordial magnetic fields and B-mode polarization in CMB	Oral
Nirban	Bose	ASI2020_373	PhD student, IIT Bombay	Eccentric binary black holes in the gravitational wave window	Oral
Koustav	Chandra	ASI2020_345	IIT Bombay	Search Sensitivity of IMBHB systems in the gravitational wave window	Oral
Vaishak	Prasad	ASI2020_416	IUCAA	The relation between the gravitational waves at the horizon and at infinity	Oral
Surajit	Kalita	ASI2020_503	IISc, Bangalore	Continuous gravitational wave from magnetized compact objects	Oral
Kazuyuki	Furuuchi	ASI2020_338	Manipal Centre for Natural Sciences, Manipal Academy of Higher Education	Cosmological consequences of the swampland bound on the saxion mass	Oral
Roopkatha	Banerjee	ASI2020_365	St. Xavier's College, Kolkata	On the Planer Circular Restricted three-body problem with Kerr like primaries	Oral
Banibrata	Mukhopadhyay	ASI2020_504	Indian Institute of Science	Modified Einstein gravity to resolve astrophysical problems	Oral

Santabrata	Das	ASI2020_539	Indian Institute of Technology Guwahati	Limitations of the pseudo-Newtonian approach in studying the accretion flow around a Kerr black hole	Oral
Louise	Rebecca	ASI2020_222	Christ University	Planckian Pre Big Bang Phase of the universe	Poster
Ranbir	Sharma	ASI2020_50	PhD in Physical Sciences	Reconstruction of Late-time cosmology from Principal Component Analysis	Poster
Swati	Gavas	ASI2020_76	IISER Mohali	Non-universality of halo mass function using power-law model	Poster
MEGHENDRA	SINGH	ASI2020_123	Dr. A.P.J.Abdul Kalam Technical University Lucknow	Cosmology with Gamma Ray Bursts: Non-Gaussian features in the Data	Poster
Abinash Kumar	Shaw	ASI2020_178	Indian Institute of Technology Kharagpur	Impact of inherent non-Gaussianity on reionization 21-cm signal power spectrum measurement using SKA-Low	Poster
Kiren	O V	ASI2020_296	Lecturer	Evolution of Primordial Dark Matter Planets in Early Universe	Poster
Ashu	Kushwaha	ASI2020_309	Indian institute of technology Bombay	Inflationary magnetogenesis from Galileon complex scalar field	Poster
JOSEPH	P J	ASI2020_361	IIT Bombay	Low-energy modified gravity signatures on the large-scale structures	Poster
Suvedha	Naik	ASI2020_315	Manipal Centre for Natural Sciences, Centre of Excellence	The Impact of Primordial Power Spectrum with Features on Cosmological 21 cm Signal	Poster
noel	jobu	ASI2020_326	Manipal centre of Natural Science	Constraints on effective field theory models of inflation in general D - dimensions	Poster
Sangita	Chatterjee	ASI2020_192	Jadavpur University	Impact of accretion disk on the gravitational wave-profile emitted from binary merger.	Poster
Ripon	SK	ASI2020_399	Dhruba Chand Halder College	Motion of charged particle in Reissner - Nordström spacetime: A Jacobi metric approach	Poster
Prateek	Gupta	ASI2020_404	Savitribai Phule Pune University	The diffusive shock acceleration efficiency and magnetic field strength in radio relics, using numerical modeling and simulation	Poster
ANIRBAN	CHANDA	ASI2020_526	University of North Bengal	Emergent Universe model with non-linear viscous fluid	Poster
Sagar	Dey	ASI2020_527	University of North Bengal	Anisotropic Compact objects with Finch-Skea Geometry in Higher Dimensions	Poster

Sajal	Gupta	ASI2020_562	Indian Institute Of Science Education and Research kolkata	Bounds on graviton mass from galaxy clusters	Poster
BIKASH CHANDRA	PAUL	ASI2020_563	UNIVERSITY OF NORTH BENGAL	Emergent Universe in Modified Gravity with Wormhole	Poster
Arun	Kenath	ASI2020_219	Christ University	Is the Binding Energy of Galaxies related to their Core Black Hole Mass?	Poster
Sarmistha	Banik	ASI2020_171	BITS Pilani	Neutron star models in $f(R)$ gravity with realistic EoS	Poster
Mandar	Patil	ASI2020_383	IIT Dharwad	Smoking gun gravitational lensing signature of matter distribution around black hole	Poster
Rishi Kumar	Tiwari	ASI2020_201	Govt. Model Science College Rewa (M.P.)	LRS Bianchi type-II Cosmological Models with variable deceleration parameter	Poster
AKHILA	K	ASI2020_445	UNIVERSITY OF CALICUT	Evolution of Interior Magnetic Field of Magnetars	Poster
