AAPCOS - 2023 Program Schedule			
	23-01-2023 Session		
09:00- 09:30	AAPCOS 2023 Registration		
09:30 - 09:45	Welcome		
	Morning Session Chair: Ambar Ghosal		
09:45 - 10:30	Possibilities with dark matter, Some minimum bias conclusions by Biswarup Mukhopadhyaya		
10:30 - 11:30	Director's Address and High Tea		
11:30 - 12:00	Non-thermal dark matter at reheating: production and evolution By Avirup Ghosh		
12:00 - 12:20	Constraints on ultralight axions and guage bosons from geodetic and frame dragging measurements by Tanmoy Poddar		
12:20 - 12:40	Probing low scale lectogensis with inflationary blue tilted gravitational waves By Satyabrata Datta		
12:40 - 14:30	Lunch		
	Afternoon Session Chair : Srubabati Goswami		
14:30 - 14:50	Chasing dark matter substructres in electron recoil direct detection experiments By Taraknath Maity		
14:50 - 15:10	Dark Matter Approach of a Left-Right Symmetric Model- by Sanchari Bhattacharyya		
15:10 - 15:30	CMB Imprint of high scale no-thermal Lectogenesis By Abhijit Saha		
15:30 - 16:00	Tea		
Evening Session Chair : Srubabati Goswami			
16:00 - 16:45	Ruling out light axions: the writing is on the wall - by Subir Sarkar		
16:45-17:15	Signatures of regular black holes from the shadow of Sgr A* and M87*-by Subhadip Sau		
17:15 - 18:10	Poster Session		

24-01-2023 Session			
	Morning Session Chair: Mala Das		
09:30 - 10:15	Direct Detection of Dark Matter at SNOLab By Jeter Hall		
10:15 - 11:00	Plenary Talk (TBA)		
11:00 - 11:30	Tea		
11:30 - 12:00	A Highly Sensitive Radon Emanation Measurement System at SNOLAB By Dimpal Chauhan		
12:00 - 12:20	Alpha Quenching Factor in Liquid Argon By Susnata Seth		
12:20 - 12:40	Exploring the direct detection of WIMP dark matter at Jaduguda Underground Science Laboratory (JUSL) By Suraj Ali		
12:40 - 13:00	Strong cosmic censorship conjecture for a charged BTZ black hole By Chiranjeeb Singha		
13:00 - 14:30	Lunch		
	Afternoon Session Chair: Indranil Chattopadhyay		
14:30 - 15:15	The MAGIC of gamma-ray astronomy - by David Paneque		
15:15 - 15:45	Invited Talk (TBA) By Ritaban Chatterjee		
15:45 - 16:05	Prospects of Multi-messenger astronomy in the era of third generation of gravitational wave detectors By Biswajit Banerjee		
16:05 - 16:30	Tea		
	Evening Session Chair: Ritaban Chatterjee		
16:30 - 17:00	Do plasma composition affect the accretion and jets associated with the compact objects? -by Indranil Chattopadhyay		
17:00 - 17:30	Supernova remnants as Galactic PeVatron candidates By Agnibha Dey Sarkar		
17:30 - 17:50	Cosmic ray interactions with molecular clouds using GEANT4 simulation- by Abhijit Roy		
17:50 - 18:10	Poster Session		

25-01-2023 Session			
	Morning Session Chair: Debades Bandyopadhyay		
9:30 - 10:15	Plenary Talk (TBA) by Subhendra Mohanty		
10:15 - 11:00	Understanding nature's densest objects and the cosmos with gravity's messenger - by Sukanta Bose		
11:00 - 11:30	Tea		
11:30 - 12:00	Intermediate-mass black holes-mergers in the IGWN - by Archana Pai		
12:00 - 12:30	Cosmology potential with a decihertz gravitational wave observatory - by Sanjit Mitra		
12:30 - 13:00	Particle Swarm Optimisation in GW signal Detection - by Rajesh Nayek		
13:00 - 14:30	Lunch		
Afternoon Session Chair: Koushik Dutta			
14:30 - 15:15	Continuous gravitational waves from spinning neutron stars: status and Outlook-by Reinhard Prix		
15:15 -15:45	On the quark content of neutron star core - by Rana Nandi		
15:45 -16:15	Modeling the dense nuclear matter equation of state consistent with the astrophysical observations - by Prasanta Char		
16:15 - 16:45	Tea		
	Evening Session Chair: Koushik Dutta		
16:45 - 17:15	Spanning the full range of neutron star properties within a microscopic description - by Tuhin Malik		
17:15 - 17:45	Imprints of Non-standard cosmology on Leptogenesis - by Amit Dutta Banik		
17:45 - 18:05	Rapid parameter estimation of compact binary sources using a meshfree approach - by Lalit Pathak		
18:05 onwards	Conference Dinner		

	26-01-2023 Session		
	Morning Session Chair: Ambar Ghosal		
10:00 - 11:30	Republic Day Celebration at SINP		
11:30 - 12:15	Neutrino physics : Current Status and future trends- by Srubabati Goswami (TBA)		
12:15 - 12:45	The first decade of neutrino astronomy with IceCube, and the way forward -by Md. Rameez		
12:45 - 13:05	Looking for baryogenesis parameter space for Inverse seesaw model - by Ananya Mukherjee		
13:05 - 14:30	Lunch		
Afternoon Session Chair: Subhendra Mohanty			
14:30 - 15:00	About generating small Yukawa couplings naturally from trans-Planckian asymptotic safety By Soumita Pramanick		
15:00 - 15:45	Searching for gravitational waves from new physics with pulsar timing arrays-by Kai Schmitz		
15:45 - 16:05	Reconstruction of nuclear matter parameters in a Bayesian approach By Sk MD Adil Imam		
16:05 - 16:30	Tea		
	Evening Session Chair: Debasish Majumdar		
16:30 - 16:50	Probing high energy scales and weakly coupled BSM via Gravitational Waves By Anish Ghoshal		
16:50 - 17:10	Insights into high-energy emission from kpc-scale jets launched from black holes By Agniva Roy Chowdhary		
17:10 - 17:30	Implication of nonstandard interaction in the generation of microscopic black hole events from ultra high energy neutrinos By Trisha Sarkar		
17:30 - 17:50	A template-based search for exotic gravitational wave signals from astrophysical compact binaries By Abhishek Sharma		
17:50 - 18:10	Poster Session		

27-01-2023 Session			
	Morning Session Chair: Ranjan Laha		
09:30 - 10:15	Hubble from Bubble - A new cosmic distance measure -by Shubhabrata Majumdar		
10:15 - 10:45	Beyond-Gaussian statistics for cosmological clustering - k-Nearest Neighbor Distributions By Arka Benerjee		
10:45 - 11:05	Viscous cosmological model and the validity of near equilibrium condition in the context of $f(R,T)$ gravity By Vishnu A Pai		
11:05 - 11:30	Tea		
Post Tea Session Chair: Shubhabrata Majumdar			
11:30 - 12:00	High-energy neutrinos from the Sun as a discovery tool for dark matter - electron scattering -by Ranjan Laha		
12:00 - 12:30	Phenomenology of cosmological moduli fields- by Kaushik Dutta		
12:30 - 12:50	Investigating field-fluid non-minimal coupling in the context of Dynamical Stability Approach-by Anirban Chatterjee		
12:50 - 13:10	Modified cosmology through Barrow entropy and its thermodynamic implications By Nandhida Krishnan P		
13:10 - 13:30	Effects of Reheating on Moduli Stabilization By Khursid Alam		
13:30 - 14:30	Lunch		