

	Thursday		
8:40 - 9:30	Welcome!		
	Astrophysics I (Chair:)		
	First JWST observations of kpc-scale dual quasars at cosmic noon	Yuzo Ishikawa	JHU
	JWST discovery of dust reservoirs in type IIP supernovae	Melissa Shahbandeh	STSci
	Exploring New Frontiers in Radio-Transient Astrophysics with the CHIME Telescope	Emmanuel Fonseca	WVU
	A Gaia Data Release 3 View on the Tip of the Red Giant Branch Luminosity	Siyang Li	JHU
9:30 - 9:50	coffee break		
9:50 - 10:30	Stellar population modeling in the era of JWST	Bingjie Wang	PSU
	A New Tool to Flexibly Model the Exotic Nebular Conditions in the Early Universe	Yijia Li	PSU
	Capturing Hidden Monsters by X-ray Observations	Wei Vivyan Yan	PSU
	Searching for distant active dwarf galaxies with deep X-ray surveys and the underlying challenges	Fan Zou	PSU
	Dust Attenuation in Nearby, Resolved Star Forming Regions	Laura Duffy	PSU
10:40-11:00	coffee break		
11:00 - 12:00	Gravitational Waves I (Chair:)		
	Dark Siren measurements	Ish Gupta	PSU
	Measuring H0 with Dark Sirens.	B Sathyaprakash	PSU
	Thermal Effects in Binary Neutron Star Mergers	Jacob Fields	PSU
	Revealing Phase Transitions using Gravitational Wave Spectroscopy of Binary Neutron Star Mergers	Pedro Espino	PSU/Berkeley
	Constraints on Nuclear Matter using gravitational wave detection from binary neutron star mergers	Rahul Kashyap	PSU
	Constraining Binary Evolution with Gravitational-Wave Observations	Vera Delfavero	GSFC
12:00 - 1:30	Lunch break		
1:30 - 2:10	Theory (Chair:)		
	Kink-antikink collision in a quantum vacuum	Mainak Mukhopadhyay	PSU
	Thermodynamics in finite qubit systems	Unnati Akhouri	PSU
	New Horizons in the Randall-Sundrum Phase Transition	Bharath Sambasivam	Syracuse
	Covariant MODified Newtonian Dynamics (MOND)	Erick Ivan Duque Gonzalez	PSU
2:10 - 2:30	coffee break		
2:30 - 3:20	Perturbation of Kerr blackhole beyond the Horizon	Mohamed Fawzi	Buffalo
	Dark energy in String Theory	Muthusamy Rajaguru	Lehigh
	Chern Simons condensate from misaligned axions	Shuyang Cao	Upitt
	Effective field theory of dissipative black hole dynamics	Jingping Li	CMU
	A Dark Matter trigger for Early Dark Energy Coincidence	Meng-Xiang Lin	Upenn
3:20 - 3:40	coffee break		
3:40 - 4:40	Large-scale structure of the Universe I (Chair:)		
	Lower Bound on Mas of Compact Objects From Dissipative Dark matter	James Gurian	PSU
	Atomic dark matter cooled halos during the cosmic dawn	Sarah Schon	PSU
	Cosmic Topology: Constraining the 'Shape' of the Universe	Pip Samuel Petersen	CWRU
	Cosmology with high-redshift galaxies	Nash Sabti	JHU
	Better Estimation of Intrinsic Alignments in Weak Lensing Measurements	Ali Shakir	CMU
	Testing Gravity with cross-correlations between CMB lensing and Large Scale Structure	Lukas Wenzl	Cornell
4:40 - 6:00	Discussion Group		
6:00 - 6:30	Reception		
6:30	Dinner		

	Friday		
9:00 - 9:30	Gravitational Waves II (Chair:)		
	Accelerating Gravitational Wave Data Analysis with Differentiable Waveforms	Thomas Edwards	JHU
	LISA Constraints on an Intermediate-Mass Black Hole in the Galactic Center	Vladimir Stokov	JHU
	An SZ-Like Effect On The Stochastic Gravitational Wave Background	Marcell Howard	UPitt
9:30 - 9:50	coffee break		
9:50 - 10:40	Large-scale structure of the Universe II (Chair:)		
	Towards Cosmology with the Kinematic SZ Projected-Fields Estimator	Raagini Patki	Cornell
	kSZ signal extraction efficacy & optical depth estimation	Yulin Gong	Cornell
	Cosmological information in intensity mapping observations	Shubh Agrawal	UPenn
	RSD effects in voids in different modified gravity models	Chris Wilson	Cornell
	Perturbation Theory Remixed: Improved Nonlinearity Modeling beyond Standard Perturbation Theory	Zhenyuan Wang	PSU
10:40 - 11:00	coffee break		
11:00 - 11:40	Astrophysics (Chair:)		
	Machine Learning for the Halo Mass Function	Olive Ross	Cornell
	Heavy element nucleosynthesis and high-energy neutrinos from magnetised outflows	Mukul Bhattacharya	PSU
	Active Galactic Nuclei and the Broad Line Region	Mary Ogborn	PSU
	Properties and Morphology of Dual AGN in the ASTRID Simulation at z=2	Ekaterine Dadiani	CMU
11:40 - 12:10	coffee break		
12:10 - 12:40	Mergers of Massive Black Holes in Relaxed Nuclear Star Clusters	Diptajyoti Mukherjee	CMU
	Tidal disruption of a white dwarf by a massive black hole: a smorgasbord of multi-messenger astrophysics	Mike Eracleous	PSU
	New Insights Into Circumbinary Accretion Disk Dynamics	Sean McWilliams	WVU
12:40 - 13:00	Summary and Wrap-up		