

PROGRAM

Nov 20 (Morning: Plenary Sessions)		
International Conference Hall (2nd Floor at Building 3)		
0845 - 0910	Opening Ceremony	
0910 – 0950	Jun Luo (Sun Yat-Sen University)	An Introduction to Tianqin
0955 – 1020	Group Photo & Coffee Break	
Chairman: Chao-Qiang Geng		
1020 – 1050	Raymond Volkas (The University of Melbourne)	Neutrino Mass Models: Connections with Cosmology & Other Physics beyond the Standard Model
1050 – 1120	Eleftherios Papantonopoulos (National Technical University of Athens)	Building a Holographic Superconductor in a Scalar-Tensor Horndeski Theory
1120 – 1150	Dmitri Pogosian (University of Alberta)	Connectivity of the Cosmic Web
1200 – 1400	Lunch	
Nov 20 (Afternoon: Parallel Sessions)		
Session 1: Astrophysics and Particle Physics Meeting Room 1 (3rd Floor at Building 10)		
Chairman: Xin Zhang		
1400 – 1420	Soichiro Hashiba	Gravitational Creation of Superheavy Particles After Inflation
1420 – 1440	Jieci Wang	Quantum Coherence and Steering in Curved Spacetime
1440 – 1500	Fayin Wang	Fast Radio Bursts: Physical Models and Cosmological Applications
1500 – 1520	Coffee Break	
Chairman: Zongkuan Guo		
1520 – 1540	Jeff Kost	Spontaneous Leptogenesis via Continuum-Clockwork Axion Dark Matter

1540 – 1600	Yong Yeon Keum	GeV-TeV Scale Cosmic Rays: Contributions from Local Sources
1600 – 1620	Nick Houston	The Edges 21 cm Anomaly and Axion Dark Matter
1620 – 1640	Paramita Dasgupta	General Treatment of Reflection of Spherical Waves from a Spherical Surface: Assuming Reflected Waves as Locally Plane Waves
Free Discussion		
1800 – 2100	Dinner	
Session 2: Cosmology Meeting Room 5 (2nd Floor at Building 10)		
Chairman: Qingguo Huang		
1400 – 1420	Hiroaki Tahara	Self-Anisotropizing Inflationary Universe in Horndeski Theory
1420 – 1440	Antonio Marciano	Emergent Inflation from a Nambu-Jona-Lasinio Mechanism in Gravity with Non-Dynamical Torsion
1440 – 1500	Cheng-Yong Zhang	The final state of RN(GB)-dS black hole at large D
1500 – 1520	Coffee Break	
Chairman: Le Zhang		
1520 – 1540	Larissa Santos	Reconstructing the B-Mode Power Spectrum Using Simulated Planck Maps
1540 – 1600	Minxi He	Reheating in the Mixed Higgs R^2 Model
1600 – 1620	Yougang Wang	21cm intensity mapping: the Tianlai Project
1620 – 1640	Jakub Bilski	Theoretical Consistency of Phenomenological Models Based on Loop Quantum Gravity
Free Discussion		
1800 – 2100	Dinner	
Session 3: Gravitational Waves and Related Physics Meeting Room 6 (2nd Floor at Building 10)		
Chairman: Ya-Peng Hu		
1400 – 1420	Fa Peng Huang	Exploring Dynamical CP Violation Induced Baryogenesis by Gravitational Waves and Colliders
1420 – 1440	Andrea Addazi	Gravitational Waves from Dark Matter Bubbles in the Early Universe
1440 – 1500	Lijing Shao	Complementarity in Testing Strong-Field Gravity with Pulsar Timing and Gravitational Waves
1500 – 1520	Coffee Break	

Chairman: Qiyuan Pan		
1520 – 1540	Yuyang Wang	Precise Peculiar Velocities from Gravitational Waves Accompanied by Electromagnetic Signals and Cosmological Applications
1540 – 1600	Tao Yang	A New Probe of Gravity: Strongly Lensed Gravitational Wave Multi-Messenger Approach
1600 – 1620	Yong-Feng Huang	Gravitational Wave Events by Merging Strange Quark Stars – Strange Quark Planets
1620 – 1640	Fa Peng Huang	Exploring Dynamical CP Violation Induced Baryogenesis by Gravitational Waves and Colliders
Free Discussion		
1800 – 2100	Dinner	

Nov 21 (Morning: Parallel Sessions)

Session 1: Black Holes and Holography Meeting Room 1 (3rd Floor at Building 10)

Chairman: Shaoyu Yin

0830 – 0850	Rongjia Yang	Constraints from Accretion onto a Tangherlini-Reissner-Nordstrom Black Hole
0850 – 0910	Xiao Yan Chew	Scalar and Axial Quasinormal Modes of Massive Static Phantom Wormholes
0910 – 0930	Mahdis Ghodrati	Hawking-Page Phase Transition and Complexity Growth Rate in TMG and NMG
0930 – 0950	Dong-han Yeom	Hawking Radiation as Instantons
0950 – 1010	Coffee Break	

Chairman: Songbai Chen

1010 – 1030	Rong-Xin Miao	Weyl-Anomaly Induced Current and Holography
1030 – 1050	Zhuo-Yu Xian	Sachdev-Ye-Kitaev Lattices and AdS ₂ Lattices
1050 – 1110	Pengxiang Hao	Mutual Renyi Information in Holographic Warped CFTs
1110 – 1130	Hao Xu	Black Hole Thermodynamics in Conformal Gravity
1200 – 1400	Lunch	

Session 2: Cosmology Meeting Room 5 (2nd Floor at Building 10)

Chairman: Puxun Wu

0830 – 0850	De-Chang Dai	Intrinsic Redshifts of Stars
0850 – 0910	Rui An	Relieving the Tension Between Weak Lensing and Cosmic Microwave Background with Interacting Dark Matter and Dark Energy Models
0910 – 0930	Jiajun Zhang	Cosmological Simulation Beyond LCDM Model
0930 – 0950	Ying-Li Zhang	Primordial Black Holes from R ² Gravity
0950 – 1010	Coffee Break	

Chairman: Bin Hu

1010 – 1030	Xue Xun	The Swampland is Not Necessary
1030 – 1050	Yuan Zhong	Kink Collision in Noncanonical Scalar Field Theories
1050 – 1110	Martiros Khurshudyan	Phase Space Analysis of Some Cosmological Models

1110 – 1130	Shi Pi	Gravitational Waves Induced by non-Gaussian Scalar Perturbations
1200 – 1400	Lunch	
Session 3: Theoretical Aspects of Gravity Theories Meeting Room 6 (2nd Floor at Building 10)		
Chairman: Yuxiao Liu		
0830 – 0850	Daniele Gregoris	On the First G_1 Stiff Fluid Spike Solution in General Relativity
0850 – 0910	Yan Peng	No-Scalar Hair Theorem for Compact Reflecting Stars
0910 – 0930	Zhi-Bang Yao	Spatially Covariant Gravity with Velocity of the Lapse Function
0930 – 0950	Jun-Qi Guo	Critical Phenomena in Gravitational Collapse
0950 – 1010	Coffee Break	
Chairman: Qiang Wu		
1010 – 1030	Zhi Xiao	Lorentz Violating Scalar Hamiltonian and Equivalence Principle
1030 – 1050	James Nester	Quasi-local Energy with a Constant Curvature Reference
1050 – 1110	Morgan Le Delliou	What does Gauge Theory of Teleparallel Gravity Mean?
1110 – 1130	Yong Zhuang	The Lagrangian Perturbation Theory in Relativistic Universe with Perfect Fluid Sources
1200 – 1400	Lunch	
Nov 21 (Afternoon: Plenary Sessions)		
1130 - 1330	Joint Meeting of APCosPA Org Assembly and Council and DACG EXCO Meeting Room 9 (2nd Floor at Building 10)	
International Conference Hall (2nd Floor at Building 3)		
Memorial Session for Prof. Pauchy Hwang Chairman: Raymond Volkas		
1400 – 1415	Irving Huang (Harvard Medical School)	More Stories of Prof. Pauchy Hwang
1415 – 1445	Sang Pyo Kim (Kunsan National University)	Quantum Cosmology with Phantom Fields

1445 – 1515	Xiao-Gang He (National Taiwan University/Shanghai Jiao Tong University)	Leptophilic Dark Matter
1515 – 1545	Bo-Qiang Ma (Peking University)	Lorentz Violation from High Energy Neutrinos
1600 – 1800	Excursion to Dong Guan Street	
1830	Banquet at Old Mansion of Salt Merchant Lu	

Nov 22 (Morning: Plenary Sessions)

International Conference Hall (2nd Floor at Building 3)

Chairman: Ruihong Yue

0830 – 0900	Pisin Chen (LeCosPA, National Taiwan University)	Why did the Universe Favor Concave Rather than Convex Inflationary Potential?
0900 – 0930	Joan Solà (Universitat de Barcelona)	Assessing the Current Status of Dynamical Dark Energy
0930 – 1000	Jun'ichi Yokoyama (RESCEU, University of Tokyo)	Micro Black Holes Formed in the Early Universe as Cold Dark Matter
1000 – 1020	Coffee Break	

Chairman: Yangang Miao

1020 -- 1050	Diego Pavon (Autonomous University of Barcelona)	Constraints on the Radiation Temperature Before Inflation
1050 – 1120	Misao Sasaki (Kavli IPMU, University of Tokyo)	Inflationary Scenario for Primordial Black Holes as Cold Dark Matter
1120 – 1150	Kaixuan Ni (University of California San Diego)	Recent Progress on Dark Matter Direct Detection
1200 – 1400	Lunch	

Nov 22 (Afternoon: Plenary Sessions)

International Conference Hall (2nd Floor at Building 3)

Chairman: Xun Xue

1400 – 1430	Bin Chen (Peking University)	Entanglement Entropy in TTbar-Deformed CFT
1430 – 1500	Wenfei Yu (Shanghai Astronomical Observatory)	Probing SMBH Mass and Spin and GR Effects in Tidal Disruption Events
1500-1520	Coffee Break	

Chairman: Xiaojun Bi		
1520 – 1550	Hong Lu (Tianjin University)	Aspects of Higher-Order Gravities
1550 – 1620	Kiwoon Choi (IBS)	The dS Swampland Conjecture with the EW Symmetry and QCD Chiral Symmetry Breaking
1800 – 2100	Dinner	