

## July 13th, 2024

Time	Session Details	Speaker(s)	Chair
08:30-09:00	The open string pair production vs the QED Schwinger pair production	Jianxin Lu (University of Science and Technology of China)	Yuxiao Liu (Lanzhou University)
09:00-09:30	Loop quantum scalar-tensor cosmology with conformal invariance	Yongge Ma (Beijing Normal University)	
09:30-10:00	Geometric Constraints via Page Curves: Insights from Island Rule and Quantum Focusing Conjecture	Xianhui Ge (Shanghai University)	
10:00-10:30	Tea Break and Group Photo (Xinglin Building, Room 203)		
10:30-11:00	Exact Solutions of the Teukolsky Equation and Radiative Energy Flux of Various Perturbation Fields in type D Spacetime	Jiliang Jing (Hunan Normal University)	Yongqiang Wang (Lanzhou University)
11:00-11:30	Connection between Thermodynamics and Dynamics of Regular Black Holes	Yangang Miao (Nankai University)	
11:30-12:00	Model Independent Reconstruction of Modified Gravity	Lixin Xu (Dalian University of Technology)	
12:00-13:30	Lunch Break (3rd Floor, Xinzhu Yuan)		
14:30-15:00	Probing Fundamental Physics with Extreme Mass Ratio Inspirals	Yungui Gong (Ningbo University)	Hao Wei (Beijing Institute of Technology)
15:00-15:30	Images of Kerr-MOG black holes illuminated by a thick accretion disk	Songbai Chen (Hunan Normal University)	
15:30-16:00	Constraining the black hole interior with energy condition	Runqiu Yang (Tianjin University)	
16:00-16:20	Tea Break (Xinglin Building, Room 203)		
16:20-16:50	21-cm cosmology	Xin Zhang (Northeastern University)	Shaowen Wei (Lanzhou University)
16:50-17:20	Alleviating Hubble constant tension and growth tension via a transition of absolute magnitude	Puxun Wu (Hunan Normal University)	
17:20-17:50	Relativist quantum sensing in curved spacetime	Jieci Wang (Hunan Normal University)	Qing Gao (Southwest University)
17:50-18:20	Corrections to black hole shadow images from the effect of higher-order curvature in $f(R)$ theory	Jianbo Lü (Liaoning Normal University)	
18:20	Banquet (3rd Floor, Xinzhu Yuan)		

## July 14th, 2024

Time	Session Details	Speaker(s)	Chair
08:30-09:00	Gravitational wave astronomy: current status and future prospects	Soumya Darshan Mohanty (Department of Physics and Astronomy, University of Texas Rio Grande Valley)	Jie Yang (Lanzhou University)
09:00-09:30	Gravitational Kink and Supersymmetric Quantum Mechanics	Yuan Zhong (Xi'an Jiaotong University)	
09:30-10:00	Black holes in Kalb-Ramond gravity	Ke Yang (Southwest University)	
10:00-10:30	Tea Break (Xinglin Building, Room 203)		
10:30-11:00	The bounce effect of thermodynamic phase transition in the black hole	Zhenming Xu (Northwest University)	Li Zhao (Lanzhou University)
11:00-11:30	Quantum fluctuation on action growth of probe string in BTZ black hole	Yuting Zhou (Nanjing University of Aeronautics and Astronautics)	
11:30-12:00	Polarizations of gravitational waves in the most general pure metric theory and the most general scalar-tensor theory	Yuqi Dong (Lanzhou University)	
12:00-13:30	Lunch Break (3rd Floor, Xinzhu Yuan)		
14:30-18:00	Free Discussion Session	All Speakers	Yuxiao Liu (Lanzhou University)
18:00-19:30	Dinner (3rd Floor, Xinzhu Yuan)		