

Astrophysics, Cosmology, and Gravitation (ACG)
Chair: Rong-Gen Cai (Ningbo University)

No.	Invited Speaker	Affiliation	Topic
1	Yi-Fu Cai	University of Science and Technology of China	Theoretical perspectives on late-time cosmic acceleration in light of latest cosmological observations
2	Chiang-Mei Chen	National Central University	Monodromy Approach for Black Hole Physics
3	Siyuan Chen	Shanghai Astronomical Observatory, Chinese Academy of Sciences	Finding the source of the nanohertz gravitational wave signal from PTAs
4	Theresa Fruth	University of Sydney	Status of the LUX-ZEPLIN dark matter experiment
5	Qing Gao	Southwest University	Observational constraints on inflationary models with nonminimal derivative coupling by ACT
6	Mingyong Guo	Beijing Normal University	Near-horizon Polarization as a Diagnostic of Black Hole Spacetime
7	Hyewon Han	Dongguk University	Relationship between quasinormal modes and grey-body factors in higher dimensions
8	Song He	Ningbo University	Unify the QGP transports and equations of state in a holographic QCD Model
9	Qing-Guo Huang	Institute of Theoretical Physics, Chinese Academy of Sciences	The spatial correlations between pulsars for interfering gravitational-wave sources in Pulsar Timing Array
10	Suoqing Ji	Fudan University	What Happens When Supermassive Black Holes Speak to Galaxies?
11	Xiao-Mei Kuang	Yangzhou University	Exploring photon sphere structure of hairy black holes
12	Dilip Kumar	University of Hyderabad	Short-GRBs from Shock Collisions Driven by Magnetic Reconnection in Cosmic String Wakes
13	Hocheol Lee	Dongguk University	Violation of the Bound on Chaos in Charged and Rotating AdS Black Hole
14	Li Li	Institute of Theoretical Physics, CAS	Uncovering quantum corrections to thermodynamics of black holes with Chern-Simons term

15	Jun Lin	Yunnan Astronomical Observatories, CAS	Theories of Solar Eruptions and Observational Consequences
16	Lang Liu	Beijing Normal University	Gauge Dependence and Invariance in Induced Gravitational Waves
17	Hongguang Liu	Westlake University	Loop quantum gravity, coherent state path integral and one-loop effective action
18	Tao Liu	The Hong Kong University of Science and Technology	Unveiling Ultralight Axion-like Dark Matter — A PTA-PPA Method
19	Nobuyoshi Ohta	Osaka Metropolitan University	Einstein gravity with cosmological constant and scalar fields is nonperturbatively renormalizable
20	Shi Pi	Institute of Theoretical Physics, CAS	Inflation beyond slow-roll and non-Gaussianities
21	Mayuri Rao	Raman Research Institute	Global cosmological signal detection experiments at radio frequencies
22	Cristian Andres Rivera Medina	National Central University	Schwinger pair production in near extremal RN-dS black holes
23	Shan-Ming Ruan	Peking University	Universal Time Evolution of Holographic and Quantum Complexity
24	Arman Shafieloo	KASI, DaeJeon	Reconstructing Dark Energy
25	Lijing Shao	Peking University	Fundamental Physics with Pulsars around Sgr A*
26	Yu Tian	UCAS, Beijing	Hyperboidal formalism and its applications in dynamics of de Sitter black holes
27	Jieci Wang	Hunan Normal University	Relativistic quantum channel identification and quantum metrology
28	Sai Wang	Hangzhou Normal University	Secondary gravitational-wave background and its anisotropies
29	Shao-Jiang Wang	Institute of Theoretical Physics, CAS	DESI Dark Energy, Hubble Tension, and Modified Gravity
30	Xiaofeng Wang	Tsinghua University	Probing the fundamental physics of the universe with stellar explosion
31	Zhong-Zhi Xianyu	Tsinghua University	Analytical methods for cosmological correlators

32	Run-Qiu Yang	Tianjin University	Butterfly in Spacetime: Inherent Instabilities in Stable Black Holes
33	Zhu Yi	Beijing Normal University	PTA Observations and Scalar-Induced Gravitational Waves: A Probe of Small-Scale Primordial Perturbations
34	Naoki Yoshioka	Hiroshima University	A solution to U(1) quality problem with Metric-Affine gravity
35	Hao-Ran Yu	Xiamen University	Spin direction of elliptical galaxies: observation and prediction
36	Chen Zhang	Northeastern University	Superradiant dark matter production from primordial black holes
37	Cheng-Yong Zhang	Jinan University	Nonlinear bottleneck effect in black hole dynamics
38	Cong Zhang	Beijing Normal University	Covariant dynamics from static spherically symmetric geometries
39	Jiajun Zhang	Shanghai Astronomical Observatory	21cm Observational Cosmology
40	Ying-li Zhang	Tongji University	Formation of primordial black holes from inflationary models
41	Yu-Peng Zhang	Lanzhou University	Nonlinear Coupling Effects between Scalar Dark Matter and Black Holes
42	Cheng Zhao	Tsinghua University	An Overview of DESI Cosmology