

Tuesday 26 August

14:00

Gravitational Waves: parallel session 3 Session | Location: Conference Room F1-R3 | Convener: KeJia Lee 14:00-14:20 Constraints on Lorentz and parity violations with gravitational waves Speaker Tao Zhu 14:20-14:40 Wave Effects of Gravitational Waves Speaker Jian-hua He 14:40-15:00 Gravitational Wave Birefringence in Fuzzy Dark Matter and Symmetron Cosmology Speaker Da Huang 15:00-15:20 A treatment to gravitational perturbations and Lorentz-violating effects with Lagrangian analysis Speaker Chao Zhang

15:40

16:00

Gravitational Waves: parallel session 4

Session | Location: Conference Room F1-R3 | Convener: Jun Zhang

16:00-16:20

Implications of Cosmological Gravitational Wave Sources for Fundamental Physics

Speaker

Jing Liu

16:20-16:40

Probing Dark Matter with Space and Ground-based Gravitational Waves Detectors

Speaker

Ju Chen

16:40-17:00

Bayesian model selection of Primordial Black Holes and Dressed Primordial Black Holes with lensed Gravitational Waves

Speaker

Dr Xin-yi Lin

17:20

Wednesday 27 August

14:00 **Gravitational Waves: parallel session 5** Session | Location: Conference Room F1-R3 | Convener: Xian Chen 14:00-14:20 Gravitational wave emission from merging strange quark star - strange planet. 永 黄 14:20-14:40 Multiband Gravitational Wave and Multimessenger Astronomy with Galactic compact binaries Speaker Yan Wang 14:40-15:00 Long-term multi-messenger signal simulation of a supernova Speaker Masamitsu Mori 15:00-15:20 Gravitational Waves with Complex Features as Precision Probes of Cosmology Speaker Tao Yang 15:20-15:40 **Detecting Gravitational Waves from Exoplanets Orbiting Binary Neutron Stars** with B-DECIGO and DECIGO Speaker Wenlong Guo 15:40 16:00 **Gravitational Waves: parallel session 6** Session | Location: Conference Room F1-R3 | Convener: Huaike Guo 16:00-16:20 Gravitational waves from preheating in the early Universe Speaker Anna Tokareva 16:20-16:40 Search for an isotropic Gravitational Wave Background with ground based detectors and cosmological implications Alba Romero-Rodríguez 16:40-17:00

> **Speaker** Minghui Du

Non-Stationaries with Time-Frequency Domain Formalism

Enhancing Taiji's Estimation on Galactic Binaries and Instrumental Noises Against

17:00-17:20

Dawning of a new era in gravitational wave data analysis: Unveiling cosmic mysteries via artificial intelligence — A systematic review

Speaker

天宇

17:20-17:40

Accelerating Stochastic Gravitational Wave Backgrounds Parameter Estimation in Pulsar Timing Arrays with Flow Matching

Speaker

Bo Liang

17:40-18:00

Impact of Massive Black Hole Binaries Source Confusion on Uncertainties of Parameters Estimation in Space-based Gravitational Wave Detection for the TaiJi Mission

Speaker

Qing Diao

18:00

Thursday 28 August

14:00 **Gravitational Waves: parallel session 7** Session | Location: Conference Room F1-R3 | Convener: Yiqiu Ma 14:00-14:20 The staus of KAGRA Large-scale Cryogenic Gravitational Wave Telescop Prof. Shinji MIYOKI 14:20-14:40 Use of phase sensitive amplifier for the back-action evasion scheme Speaker Kentaro Somiya 14:40-15:00 Quantum entanglement for gravitational-wave detectors Speaker Mr Yohei Nishino 15:00-15:20 Space-based optical lattice clocks as gravitational wave detectors Speaker Bo Wang 15:20-15:40 Fundamental Quantum Limits for Detecting Ultra-high Frequency Gravitational Waves Speaker Xinyao Guo 15:40 15:55 **Gravitational Waves: parallel session 8** Session | Location: Conference Room F1-R3 | Convener: Bram Slagmolen 16:00-16:20 New dark matter production mechanism and the gravitational wave signals Speaker Fa Peng Huang 16:20-16:40 Gravitational wave spectrum from metastable cosmic string network and the delayed scaling scenario Speaker Kohei Kamada 16:40-17:00 The Equilibrium Spectrum of Stochastic Gravitational Wave Background and Its **Role in Cosmic Evolution** Speaker Manjia Liang

17:00-17:20

Detecting Gravitational Waves from Cosmic Phase Transitions in Space

Speaker

Qingyuan Liang

17:20-17:40

Compact Four degree-of-freedom Seismometer with Capacitive Readout

Speake

Yulin Xia

17:40