

Session Program

12-16 Feb 2023



IAS Program on High Energy Physics (HEP 2023)

Conference: Parallel Sessions (Theory)

Tuesday 14 February

14:00

Conference: Parallel Sessions (Theory): Day 1 - Session 1: (Tu3-TH01)

Session |

Location: IAS2042, 2/F, Lo Ka Chung Building, Lee Shau Kee Campus, The Hong Kong University of Science and Technology, Hong Kong |

Convener: Yongchao ZHANG

14:00–14:20

New Physics Opportunities in Triangle Singularity

Speaker

Yu GAO

14:20–14:40

Origin of Neutrino Masses and Seesaw Effective Field Theories

Speaker

Shun ZHOU

14:40–15:00

A complete tree-level dictionary between BSM models and SMEFT ($d \leq 7$) operators

Speaker

Xu-Xiang LI

15:00–15:20

Macroscopic Dark Matter from Cosmic Phase Transitions

Speaker

Sida LU

15:40

16:00

Conference: Parallel Sessions (Theory): Day 1 - Session 2: (Tu3-TH02)

Session |

Location: IAS2042, 2/F, Lo Ka Chung Building, Lee Shau Kee Campus, The Hong Kong University of Science and Technology, Hong Kong |

Convener: Haipeng AN

16:00–16:20

Fermion Mass Hierarchies and Modulus Stabilisation in Modular-invariant Theories of Flavour [Zoom]

Speaker

Serguey PETCOV

16:20–16:40

Light Dark Matter [Zoom]

Speaker

Wen YIN

16:40–17:00

Higgs CP Properties and Their EFT Interpretation

Speaker

Bo Liu

17:00–17:20

Coupling a Cosmic String to a TQFT [Zoom]

Speaker

Sung Woo HONG

17:40

Wednesday 15 February

14:00

Conference: Parallel Sessions (Theory): Day 2 - Session 1: (W3-TH01)

Session |

Location: IAS2042, 2/F, Lo Ka Chung Building, Lee Shau Kee Campus, The Hong Kong University of Science and Technology, Hong Kong |

Convener: Yongchao ZHANG

14:00-14:25

New Physics at the Forward Physics Facility (FPF) [Zoom]

Speaker

Kingman CHEUNG

14:25-14:50

GW from Early Phase Transition

Speaker

Haipeng AN

14:50-15:15

Inert Doublet Model [Zoom]

Speaker

Bin GONG

15:15-15:40

Astro & Particle Physics Relevant

Speaker

Yusheng WU

15:40

16:00

Conference: Parallel Sessions (Theory): Day 2 - Session 2: (W3-TH02)

Session |

Location: IAS2042, 2/F, Lo Ka Chung Building, Lee Shau Kee Campus, The Hong Kong University of Science and Technology, Hong Kong |

Convener: Hao ZHANG

16:00-16:25

Tau Polarization Measurement at FCC-ee [Zoom]

Speaker

Jean-Claude BRIENT

16:25-16:50

Representation of Fermions in Pati-Salam Model [Zoom]

Speaker

Desheng LI

16:50-17:15

High-quality Axion in the Grand Unified Theories Beyond the SU(5) [Zoom]

Speaker

Ning CHEN

17:15-17:40

Testing Neutrino Dipole Portal at Electron Colliders and at the LHC by Long-lived Particle Detectors [Zoom]

Speaker

Yu ZHANG

17:40