

Session Program

28 September 2026 to 2 October 2026



From Quantum Gravity to Cosmology

Contributed Talks

Kavli IPMU, Lecture Hall
Kavli Institute for the Physics and Mathematics of the Universe, The University of Tokyo 5-1-5
Kashiwanoha, Kashiwa, Chiba, 277-8583, Japan

Monday 28 September

15:45

Contributed Talks

Session |

Location: Kavli IPMU, Lecture Hall, Kavli Institute for the Physics and Mathematics of the Universe, The University of Tokyo 5-1-5 Kashiwanoha, Kashiwa, Chiba, 277-8583, Japan

15:45–16:00

High Frequency Spectrum of Primordial Gravitational Waves

Speaker

Kamil Mudrunka

16:00–16:15

Rolling Downhill, Averaging Uphill: Nonlinear Inflation on the Lattice

Speaker

Pankaj Saha

16:15–16:30

Preheating in Einstein-Cartan Higgs inflation

Speaker

Minxi He

16:30–16:45

Consistency conditions and gravitational-wave probes of spacetime symmetries

Speaker

Nils A Nilsson

16:45

Tuesday 29 September

15:45

Contributed Talks

Session |

Location: Kavli IPMU, Lecture Hall, Kavli Institute for the Physics and Mathematics of the Universe, The University of Tokyo 5-1-5 Kashiwanoha, Kashiwa, Chiba, 277-8583, Japan

15:45–16:00

Quantum Gravity Corrections: From Background Dynamics to Cosmological Perturbations

Speaker

Hongguang Liu

16:00–16:15

Inflationary Attractors from Canonical Quantum Gravity

Speaker

Tatsuya Daniel

16:15–16:30

Volume as a Clock: Observers and Topology Change in Quantum Gravity

Speaker

Farbod Sayyed Rassouli

16:30–16:45

Hearing the Shape of Spacetime Using Nonlinearities in Causal Set Theory

Speaker

Cristiano Sampaio

16:45–17:00

Emergent Schrödinger Symmetry in Matter-Coupled Black Hole Minisuperspaces

Speaker

Taishi Sano

17:00

Wednesday 30 September

14:15

Contributed Talks

Session |

Location: Kavli IPMU, Lecture Hall, Kavli Institute for the Physics and Mathematics of the Universe, The University of Tokyo 5-1-5 Kashiwanoha, Kashiwa, Chiba, 277-8583, Japan

14:15–14:30

3-form dark energy and cosmic birefringence

Speaker

Tucker Manton

14:30–14:45

What can solve the Cosmological Constant Problem?

Speaker

Benjamin Muntz

14:45–15:00

Phantom crossing and suppressed cosmic growth in a coupled Galileon dark-energy model with a scalar potential

Speaker

Masroor Pookkillath

15:00

16:30

Contributed Talks

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16:30–16:45

Cosmological Uncertainty Relation and Late-Universe Acceleration

Speaker

Savvas Koushiappas

16:45–17:00

New paths towards the first detection of primordial non-Gaussianities from large-scale structure

Speaker

Minh Nguyen

17:00

Thursday 1 October

11:50

Contributed Talks

Session |

Location: Kavli IPMU, Lecture Hall, Kavli Institute for the Physics and Mathematics of the Universe, The University of Tokyo 5-1-5 Kashiwanoha, Kashiwa, Chiba, 277-8583, Japan

11:50–12:05

Kaluza-Klein Perturbation Theory from Exceptional Field Theory

Speaker

Camilla Lavino

12:05–12:20

Gravitational-Wave Imprints of Primordial Black Hole Evaporation

Speaker

Xin-Chen He

12:20–12:35

The Knitting Mechanism: From Quantum Gravity to the Emergence of Our Universe

Speaker

Yoshiyuki Watabiki

12:35–12:50

Cosmological correlators and discrete kinematic flow on complex Hartle-Hawking saddles

Speaker

Vikramaditya Mondal

12:50

Friday 2 October

15:45

Contributed Talks

Session |

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15:45–16:00

Regularized Master-Field Approximation for Mass-Deformed Supersymmetric Yang-Mills Matrix Models

Speaker

Reishi Maeta

16:00–16:15

Emergent Spacetime and the Arrow of Time from Non-Hermitian Effective Field Theory of Holographic Projections

Speaker

Yutaka Tamaura

16:15–16:30

From Cosmology to Local Gravity: Testing an Infrared-Completed $f(Q)$ Model Across Scales

Speaker

Deha Kaykı

16:30–16:45

Post-Newtonian Analysis of Lorentz-Violating Kalb-Ramond Gravity

Speaker

Mohammad Faiz Khan

16:45–17:00

Curvature-Induced Dynamical Spacetime Dimension in Extended General Relativity and Cosmology

Speaker

Lina Yildiz

17:00