

# CosPA2017 Parallel session program

Tuesday 12 December

	<i>Session A: DM 1</i> <i>K206</i> <i>Chair Kohei Kamada</i>	<i>Session B: BH etc</i> <i>Y306</i> <i>Chair Yuki Watanabe</i>	<i>Session C: Inflation 1</i> <i>Panasonic Hall</i> <i>Chair Tomohiro Fujita</i>
14:00–14:15	Constraints on the light dark matter Kenji Kadota	Black Hole Echology Qingwen Wang	Constant-roll inflation Hayato Motohashi
14:15–14:30	Dark Matter Semi-annihilation: a systematic study Yi Cai	Superradiance for spinors in Kerr anti de Sitter spacetime Masakatsu Kenmoku	Primordial non-Gaussianity from non-attractor Yi-Fu Cai
14:30–14:45	Minimal Majoronic model for dark matter and dark radiation and its signal at the colliders We-Fu Chang	Hawking radiation from supertranslated horizon Yoji Koyama	Strongly Coupled Cosmological Collider Siyi Zhou
14:45–15:00	Dark matter direct detection at one loop Michael Schmidt	BH perturbations & gauge dof in the near-horizon limit Kei Yamada	General analysis of kinetically driven inflation Rio Saitou
15:00–15:15	RH Neutrino Dark Matter in a Flavoured B – L Model Peter Cox	Tunnelling Phenomenon near an apparent Horizon in Two-Dimensional Dilaton Gravity Yuxuan Peng	Primordial perturbation from hyperinflation Shuntaro Mizuno
15:15–15:30	Light Fermionic WIMP with scalar mediator Po-Yan Tseng	Spins of primordial black holes formed in the matter-dominated phase of the Universe Tomohiro Harada	Theoretical Consistency of Stochastic Approach Junsei Tokuda
15:30–15:45	Late-time magnetogenesis with dark photon Toyokazu Sekiguchi	Small-scale structure and 21cm fluctuations by primordial black holes Naoya Kitajima	Hillclimbing inflation Ryusuke Jinno
15:45–16:15	<i>Break</i>		
	<i>Session D: DM 2</i> <i>K206</i> <i>Chair Kenji Kadota</i>	<i>Session E: Astrophysics</i> <i>Y306</i> <i>Chair Kunihito Uzawa</i>	<i>Session F: Inflation 2</i> <i>Panasonic Hall</i> <i>Chair Yi-fu Cai</i>
16:15–16:30	Light axino dark matter from freeze-in production Kyu Jung Bae	Cosmic Voids in Evolving Dark Sector Cosmologies Eromanga Adermann	Inflationary fluctuations with phase transitions Yi-Peng Wu
16:30–16:45	Constraint on the axion dark matter using pulsar timing arrays Ryo Kato	Study of the transparency of the universe to gamma rays with the Fermi LAT Galo Gallardo	Higgs-R <sup>2</sup> inflation Minxi He
16:45–17:00	Cannibal Dark Matter Marco Farina	Calorimeter-less gamma → e <sup>+</sup> e <sup>-</sup> telescopes : Optimal measurement of charged particle momentum from multiple scattering by a Bayesian analysis of Kalman filtering innovations Denis Bernard	Planck constraints on the non-flat $\Lambda$ CDM inflation model Junpei Ooba
17:00–17:15	Lepton number symmetry at the origin of neutrino masses, leptogenesis and dark matter Michele Lucente	Probing Neutrino Mass Hierarchy by the Charged-Current and Neutral-Current Events of Supernova Neutrinos in Scintillation Detectors Chun Sing J. Leung	Multi T-Model Inflation Ryota Tozuka
17:15–17:30	Simple Higgs-portal dark matter in light of direct search and LHC data Jusak Tandean	Light Dark Sector at Neutrino Experiments Shao-Feng Ge	Natural cliff inflation Jinn-Ouk Gong
17:30–17:45	Thermal Gravitational Contribution to Particle Production and Dark Matter Yong Tang	Search for New Physics with High Multiplicity from Ultra-High-Energy Cosmic rays and Neutrinos Yongsoo Jho	Dark inflation Michal Artymowski

## Wednesday 13 December

	<i>Session G: DM experiments</i> Y306 <i>Chair Kazunori Nakayama</i>	<i>Session H: GW 1</i> K206 <i>Chair Xian Gao</i>	<i>Session I: Inflation &amp; Cosmology</i> Panasonic Hall <i>Chair Jinn-Ouk Gong</i>
14:00–14:15	Revealing dark sector by dark shower/jet study Mengchao Zhang	Probing new physics and cosmological symmetry breaking by gravitational waves Fa Peng Huang	Cosmological dynamics and perturbations in Light mass Galileon models Mohammad V Hossain
14:15–14:30	Dark matter searches with XENON1T Shingo Kazama	Testing dark matter and neutrino mass models from gravitational waves Addazi Andrea	Anisotropic inflation without a vector field Hiroaki Tahara
14:30–14:45	Limits on Dark Matter and Nearby Astrophysical Sources from the CALET Electron+Positron Spectrum Holger Motz	Effective Stress-energy Tensor and Gravitational Radiation from Binary Systems in Horndeski Theory Shaoqi Hou	Spontaneous creation of an inflationary universe out of a black hole Naritaka Oshita
14:45–15:00	Prospective Searches for Electroweak Dark Matter at CLIC Andrew Spray	Neutrino flavor conversion in binary neutron star mergers Meng-Ru Wu	Cosmological Model with Wormhole Sung-Won Kim
15:00–15:15	"Magnetic bubble chambers" for sub-GeV dark matter direct detection Tom Melia	Gravitational waves from phase transitions in the singlet Majoron model Wan Youping	Effective Field Theory of Nonsingular Cosmology Taotao Qiu
15:15–15:30	Spectral Decomposition of Missing Transverse Energy at Hadron Colliders Tae Hyun Jung	Inflationary phase transitions and gravitational waves Sichun Shun	Hints of axionic blue isocurvature? Amol Upadhye
15:30–15:45	Higgs decay to light jets observability at HL-LHC Zhuoni Qian	Gravitational-Wave Localization and Lensing Probe of Compact Dark Matter Sunghoon Jung	Cosmological Model on Dark Energy with Two Fluids and Hybrid Law Bivudutta Mishra

## Thursday 14 December

	<i>Session J: LSS</i> Y306 <i>Chair Ryusuke Jinno</i>	<i>Session K: GW 2</i> K206 <i>Chair Taotao Qiu</i>	<i>Session L: Modified Gravity 1</i> Panasonic Hall <i>Chair Hayato Motohashi</i>
14:00–14:15	Thermal Sunyaev-Zel'dovich effect in the intergalactic medium with primordial magnetic fields Teppei Minoda	Field-theoretic simulations of colliding superconducting strings Takashi Hiramatsu	Non-minimally coupled scalar field in $R^2$ gravity Shi Pi
14:15–14:30	New constraints on small-scale primordial magnetic fields Shohei Saga	Exploring the string axiverse and parity violation in gravity with gravitational waves Daisuke Yoshida	Teleparallel Conformal Invariant Models Induced by Kaluza-Klein Reduction Ling-Wei Luo
14:30–14:45	Effects of the local features in initial power spectrum on baryon acoustic oscillations Kouichirou Horiguchi	Revisiting the stochastic background of primordial gravitational waves Malsawmtlua Naulak	Special relativity from soft gravitons Mark Hertzberg
14:45–15:00	Resumming Infrared Effects at the BAO scale Gabriele Trevisan	Primordial Gravitational waves from gauge fields during inflation Tomohiro Fujita	Massive gravitons as dark matter Katsuki Aoki
15:00–15:15	Concentrations of Simulated Dark Matter Halos Hillary Child	Primordial gravitational waves and early universe Asuka Ito	Stable cosmology in chameleon bigravity Michele Oliosi
15:15–15:30	Constraints on the dark matter and dark energy interactions from weak lensing bispectrum tomography Rui An	Gravitational waves, solitons, and causality in modified gravity Arthur Suvorov	Horava-Lifshitz cosmology revisited Shinji Mukohyama
15:30–15:45		Monte Carlo approach for model classification in Horndeski theory Shun Arai	Solving the flatness problem with an anisotropic instanton in Horava-Lifshitz gravity Yota Watanabe
15:45–16:15	<i>Break</i>		
	<i>Session M: CMB</i> Y306 <i>Chair Takashi Hiramatsu</i>	<i>Session N: Particle Physics</i> K206 <i>Chair Hisa-aki Shinkai</i>	<i>Session O: Modified Gravity 2</i> Panasonic Hall <i>Chair Shuntaro Mizuno</i>
16:15–16:30	CMB weak lensing with a primordial magnetic field Dai Yamazaki	Baryogenesis from Primordial Hypermagnetic Helicity at Electroweak Symmetry Breaking Kohei Kamada	Are redshift-space distortions actually a probe of growth of structure? Rampei Kimura
16:30–16:45	The status of the development for Simons Array experiment Daisuke Kaneko	Gravitational Instabilities of the CvB with Non-zero Lepton Number Neil Barrie	Degenerate higher-order multi-scalar-tensor theories Aya Iyonaga
16:45–17:00	LiteBIRD: lite satellite for the study of B-mode polarization and inflation from cosmic microwave background radiation detection Yuki Sakurai	Flavoured B-L Local Symmetry and Anomalous Rare B Decays Chengcheng Han	Generalized spatially covariant gravity Xian Gao
17:00–17:15	Updates on the POLARBEAR experiment Satoru Takakura	Supersymmetry breaking and singularity in dynamical M-brane background Kunihito Uzawa	Dark Sector from the Viewpoint of Holographic Gravity Yun-Long Zhang
17:15–17:30	Search for anomalous alignments of structures in PLANCK data using Tensor Minkowski Functionals Joby P.K.	Kaluza-Klein Towers in the Early Universe: Phase Transitions, Relic Abundances, and Applications to Axion Cosmology Jeff Kost	Modified gravity Fakhreeh Mohammad Esmaeili
17:30–17:45	Cosmic birefringence and anisotropic CMB polarization correlations Shamik Ghosh	Cosmology with fermions Antonino Marciano	