Program

2nd April

Morning Sess	Morning Session Chair: Shuichiro Yokoyama		
11:05-11:10	Keisuke Izumi	Opening remark	
11:10-12:10	Hironao Miyatake	Unveiling Dark Sector of the Universe with Subaru Hyper	
		Suprime-Cam	
12:10-12:30	Chien-Ting Chen	Dark Energy Induced Anisotropy in Cosmic Expansion	

Lunch Break

Afternoon Se	Afternoon Session 1 Chair: Shih-Yuin Lin		
14:00-14:40	Junsei Tokuda	IR obstruction to Lorentz invariant UV completion	
14:40-15:00	Yun-Long Zhang	Emergent Dark Universe and the Swampland Criteria	
15:00-15:20	Kazuhiro Kogai	Approach to Angular dependent Primordial Non-Gaussianity	
		with Intrinsic Galaxy Alignments	
15:20-15:40	Hsiao-Heng Yeh	CMB low multiple anomaly from Hartle-Hawking wave	
		function	

Coffee Break

Afternoon Session 2 Chair: Tsung-Che Liu		
16:20-16:40	Rika Ando	Large-scale clustering of HI with cosmological hydrodynamic
		simulations
16:40-17:00	Shih-Hao Wang	Status, Calibration, and Cosmic Ray Detection of ARIANNA-
		HCR Station in Antarctica
17:00-18:00	Jiwoo Nam	TBA

3rd April

Morning Session 1 Chair: Yen Chin Ong		
09:30-10:30	Shih-Yuin Lin	Quantum radiation by an Unruh-DeWitt detector in
		oscillatory motion
10:30-10:50	Koji Yamaguchi	Partners and quantum information capsule
10:50-11:10	Hsu-Wen Chiang	Would a dynamical super-translated black hole generates
		non-black-body Hawking radiation?

Coffee Break

Morning Session 2 Chair: Yuichiro Tada		
11:30-11:50	Hiromi Saida	Test of gravity at our galactic central massive black hole
11:50-12:10	Teppei Minoda	A constraint on primordial magnetic fields from 21-cm line observation
12:10-12:30	Sousuke Noda	Superradiant scattering of Alfv\'en waves and Blandford- Znajek mechanism

Lunch Break

Afternoon Session 1 Chair: Hiromi Saida		
14:00-14:40	Tsung-Che Liu	To distinguish the pseudo-Dirac from Dirac neutrinos by
		observing the high-energy astrophysical neutrinos
14:40-15:00	Soichiro Hashiba	Gravitational particle creation for dark matter and reheating
15:00-15:20	Tomohiro	Stellar instability in screened modified gravity
	Nakamura	
15:20-15-40	Yen Chin Ong	Generalized Uncertainty Principle, White Dwarfs, and
		Cosmological Constant

Coffee Break

Afternoon Se	Afternoon Session 2 Chair: Chulmoon Yoo		
16:00-16:20	Marcus Werner	The isoperimetric problem in Riemannian optical geometry	
16:20-16:40	Masataka Tsuchiya	Sonic Point on Photon Surface	
16:40-17:40	Norihiro Tanahashi	Separability of Maxwell equation in rotating black hole	
		spacetime and its geometric aspects	

Banquet 18:15-20:15

4th April

Morning Sess	Morning Session 1 Chair: Jiwoo Nam		
09:30-10:30	Tatsuhiro Naka	Experiment to understand the dark matter	
10:30-10:50	Yaocheng Chen	SAW filter based multi-band coincidence trigger for impulsive radio from UHECRs under suburban environment	
10:50-11:10	Daiki Hashimoto	Research for Dark Matter Annihilation with Gamma-ray Sky and Lower Surface Brightness Galaxies	

Coffee Break

Morning Sess	Morning Session 2 Chair: Norihiro Tanahashi		
11:30-11:50	Takahiro Terada	Suppression/Enhancement of the Gravitational Waves	
		induced by Curvature Perturbations after Reheating	
11:50-12:10	Shin'ichi Nojiri	Gravitational Waves in the Presence of Viscosity	
12:10-12:30	Che-Yu Chen	Testing Gravity Theories with Gravitational Waves from Black	
		Hole Perturbations	

Lunch Break (& photo)

Afternoon Session Chair: Keisuke Izumi		
14:00-14:40	Akira Matsumura	Hypothesis testing on the celestial sphere : Bunch-Davies
		vacuum vs stationary state
14:40-15:00	Chulmoon Yoo	On estimation of PBH abundance
15:00-15:20	Yuichiro Tada	PBH tower in multi-phase inflation
15:20-15:30	Pisin Chen	Summary of workshop