

Workshop on Higgs and Cosmology connection: Yonsei-APCTP-France-Korea Star collaboration project

Monday 12 December 2022

Session: 1 (14:00-16:40)

time	[id] title	presenter
14:00	[8] Revealing the local cosmic web from galaxies by Deep Learning	DONGHUI JEONG
14:40	Coffee Break	
15:00	[3] A new mechanism for symmetry breaking from nilmanifolds	ALDO DEANDREA
15:40	Coffee Break	

Tuesday 13 December 2022

Session: 2 (10:00-12:00)

time	[id] title	presenter
10:00	[4] Baryonic solutions to dark matter problems in dwarf galaxies	TAYSUN KIMM
10:40	Coffee Break	
11:00	[5] Cosmology with polarized CMB: GroundBIRD telescope	EUNIL WON
11:40	Coffee Break	

Session: 3 (14:00-16:00)

time	[id] title	presenter
14:00	[7] KCMS and some updates from the LHC	YOO, Hwidong
14:40	Coffee Break	
15:00	[6] New approaches to semi-invisible tau and B decays	CHAN BEOM PARK
15:40	Coffee Break	

Wednesday 14 December 2022

Session: 4 (10:00-12:00)

time	[id] title	presenter
10:00	[2] Composite dark matter: simplified models, non-minimality and overlooked channels	BENJAMIN FUKS
10:40	Coffee Break	
11:00	[9] Astrophysical Probes of Dark Matter	HAIBO YU
11:40	Coffee Break	

Thursday 15 December 2022

Session: 5 (10:00-12:00)

time	[id] title	presenter
10:00	[10] Probing sub-parsec scale matter power spectrum with diffractive lensing of gravitational waves	HAN GIL CHOI
10:40	Coffee Break	
11:00	[11] Searching for nu-physics: Overview of Experimental Neutrino Physics	JAY HYUN JO
11:40	Coffee Break	

Session: 6 (14:00-17:20)

time	[id] title	presenter
14:00	[12] PBHs and GWs from a Supersymmetric Higgs Inflation (online)	JINSU KIM
14:30	[13] Lepton-flavor-violating light new physics search at rare muon decays (online)	YONGSOO JHO
15:00	[14] Lepton portal dark matter at future electron-positron and muon colliders	ADIL JUEID
15:30	Coffee Break	
16:00	[16] Tri-Higgs to distinguish the high- and low-cutoff scales	JEONGHYEON SONG

Friday 16 December 2022**Session: 7 (10:00-12:00)**

time	[id] title	presenter
10:00	[18] Primordial Black Holes: New Particle Factories! (online)	JONG-CHUL PARK
10:40	Coffee Break	
11:00	[17] Higgstrahlung, dark photons, and invisible particles at Belle & Belle II	Prof. KWON, Youngjoon
11:40	Coffee Break	

Session: Round Table on BSM (14:00-16:00)**-Conveners: Seong Chan Park & P. Ko**

time	[id] title	presenter
14:00	[19] Round Table on BSM	ALDO DEANDREA (LYON, FRANCE) BENJAMIN FUKS (SORBONNE, FRANCE) DONGHUI JEONG (PENN STATE UNIV., USA) YONGSOO JHO (WEIZMANN, ISRAEL) JAY HYUN JO (BROOKHAVEN NATIONAL LAB., USA) SUNGHOON JUNG (SEOUL NATIONAL UNIVERSITY, KOREA) JINSU KIM (TONGJI UNIV., CHINA) TAE JEONG KIM (CMS, HANYANG UNIVERSITY, KOREA) TAYSUN KIMM (YONSEI UNIVERSITY, KOREA) CHAN BEOM PARK (CHONNAM NAT'L UNIV., KOREA) EUNIL WON (KOREA UNIV., KOREA) HAIBO YU (UC RIVERSIDE, USA)

Saturday 17 December 2022

Session: Collaboration Meeting (10:00-12:00)