

The 2nd Asian-European-Institutes (AEI) Workshop for BSM and the 10th KIAS Workshop on Particle Physics and Cosmology

Monday, 14 November 2022

Morning Session (09:00 - 10:30)

-Conveners: Eung Jin Chun

time	[id] title	presenter
09:00	[2] QCD instantons at hadron colliders	KHOZE, Valentin
09:30	[3] Models for self-resonant dark matter	LEE, Hyun Min
10:00	[4] TBA	PARK, Wan-II

Morning Session (11:00 - 12:30)

-Conveners: Hyun Min Lee

time	[id] title	presenter
11:00	[5] Mediator Decays at Thresholds	MATSUMOTO, Shigeki
11:30	[6] Subfrequency light signals of the dark sector	LEE, Hye-Sung
12:00	[7] Axion Quality Problem and its solution	PARK, Seong Chan

Tuesday, 15 November 2022

Morning Session (09:00 - 10:30)

-Conveners: Shigeki Matsumoto

time	[id] title	presenter
09:00	[23] Precision Collider Phenomenology	KRAUSS, Frank
09:30	[24] TBA	SON, Minho
10:00	[25] cold electroweak baryogenesis through halo collapse	WHITE, Graham

Morning Session (11:00 - 12:30)

-Conveners: Seong Chan Park

time	[id] title	presenter
11:00	[26] Axion Solar Halos: From Earth and Space	EBY, Joshua
11:30	[27] Neutrinos and Non-Invertible Symmetry	HONG, Sungwoo
12:00	[28] TBA	LI, Shu

Wednesday, 16 November 2022

Morning Session (09:00 - 10:30)

-Conveners: Valentin Khoze

time	[id] title	presenter
09:00	[8] Anatomy of "Jet Classification using Deep Learning"	NOJIRI, Mihoko
09:30	[10] Axion dark matter with thermal friction	IM, Sang Hui
10:00	[9] DarkSHINE: Dark photon fixed-target search experiment at SHINE facility	WANG, Yufeng

Morning Session (11:00 - 12:30)

-Conveners: Satoshi Shirai

time	[id] title	presenter
11:00	[21] Top quarks as a window to new physics	ENGLERT, Christoph
11:30	[22] Leveraging Quantum Annealer to identify event topologies at High energy colliders	PARK, Myeonghun
12:00	[50] W boson mass anomaly and grand unification	EVANS, Jason

Thursday, 17 November 2022

Morning Session (09:00 - 10:30)

-Conveners: Frank Krauss

time	[id] title	presenter
09:00	[34] On Detection of Axion Dark Matter	SHIRAI, Satoshi
09:30	[35] Imprints of Heavy Inflationary Particles on the Large Scale Structure	KIM, Jeong Han
10:00	[36] SU(3) symmetry and its breaking effects in charm baryon decays	XING, Zhi-Peng

Morning Session (11:00 - 12:30)

-Conveners: Jeonghyeon Song

time	[id] title	presenter
11:00	[37] Interplay of Higgs Boson, Dark matter and Neutrinos	BANDYOPADHYAY, Priyotosh
11:30	[38] Discrete Goldstone Bosons	HOUTZ, Rachel
12:00	[39] TBA	MUKAIDA, Kyohei

Friday, 18 November 2022

Morning Session (09:00 - 10:30)

-Conveners: Myeonghun Park

time	[id] title	presenter
09:00	[44] A Large N expansion for Minimum Bias	MELIA, Tom
09:30	[45] Hidden dynamics of a sub-component dark matter	SHIN, Seodong
10:00	[46] Latest results of PandaX-4T experiment	ZHOU, Ning

Morning Session (11:00 - 12:30)

-Conveners: Pyungwon Ko

time	[id] title	presenter
11:00	[47] Higgs Balls: Novel Non-Topological Solitons via Thermal Corrections	PEARCE, Lauren
11:30	[48] RGE studies in the two-Higgs-doublet model	SONG, Jeonghyeon
12:00	[49] The muon $g-2$ on the lattice QCD	JUNG, Chulwoo