



# IBS-PNU Joint Workshop on Particle Physics and Cosmology

## Wednesday, 7 December 2022

**Talks: (30+10) min X 2 (Chair: Deog Ki Hong) (14:00 - 15:20)**

time	[id] title	presenter
14:00	[3] Light axions in KKLT axiverse	CHOI, Kiwoon
14:40	[4] On Higher Dimensional Quantum Field Theory	LEE, Kimyeong

**Talks: (30+10) min + (25+5) min X 3 (Chair: Stephen Lonsdale) (16:00 - 18:10)**

time	[id] title	presenter
16:00	[5] Signatures of Quantum Superpositions of Black Holes	MANN, Robert B.
16:40	[6] Exploring extended Higgs sectors via pair production at the LHC	FLACKE, Thomas
17:10	[7] Think EFT! Applications of effective field theory to cosmology	MYLOVA, Maria
17:40	[8] Rapid turns in multi-field inflation: restored predictivity and resonant PBH production	CHRISTODOULIDIS, Perseas

# Thursday, 8 December 2022

**Talks: (30+10) min X 3 (Chair: Thomas Flacke) (16:00 - 18:00)**

time	[id] title	presenter
16:00	[12] Higgstrahlung, dark photons, and invisible particles at Belle & Belle II	KWON, Youngjoon
16:40	[15] Quantum Computing for High Energy Collider	PARK, Myeonghun
17:20	[16] Cosmology of gauged (B-L) SUSY models	PARK, Wan-il

# Friday, 9 December 2022

## **Talks: (30+10) min X 2 (Chair: Jong-Wan Lee) (09:30 - 10:50)**

time	[id] title	presenter
09:30	[17] Pion light-cone distribution amplitude from a heavy-quark OPE	LIN, C.-J. Daivd
10:10	[18] Perspectives on understanding the substructure of multiquark hadrons in lattice QCD	FRANCIS, Anthony

## **Talks: (30+10) min (Chair: Jong-Wan Lee) (11:20 - 12:00)**

time	[id] title	presenter
11:20	[19] Continuum Dark Matter	LEE, Seung J.

## **Talks: (30+10) min X 2 + 15 min X 5 (Chair: Seung J. Lee) (15:30 - 18:05)**

time	[id] title	presenter
15:30	[22] On the mass spectrum of heavy Higgs bosons in 2HDM in the light of the CDF W-mass anomaly	LEE, Jae Sik
16:10	[23] Extra gauge symmetries for lepton flavor with vector-like leptons	LEE, Hyun Min
16:50	[24] Chimera baryon spectrum in a Sp(4) lattice gauge theory	HSIAO, Ho
17:05	[25] Primordial Black Holes and Gravitational Waves from the Tachyonic Instability in Higgs-R <sup>2</sup> Inflation	CHEONG, Dhong Yeon
17:20	[26] FIMP dark matter from a hidden effective supersymmetric theory	ISNARD, Wanda
17:35	[27] Cosmological PBH production during a 1st order PT	KIM, TaeHun
17:50	[33] Pseudo-Nambu-Goldstone inflation with twin waterfalls	MENKARA, Adriana Guerrero

# Saturday, 10 December 2022

## **Talks: (25+5) min X 3 (Chair: Dong-han Yeom) (09:30 - 11:00)**

time	[id] title	presenter
09:30	[28] Rectifying No-Hair Theorems in Gauss-Bonnet Theory	PARK, Miok
10:00	[29] Dynamical analysis in 4D Einstein-Gauss-Bonnet gravity	TUMURTUSHAA, Gansukh
10:30	[30] Trouble with geodesics in black-to-white hole bouncing scenarios	LIN, Wei-Chen

## **Talks: (25+5) min X 2 (Chair: Dong-han Yeom) (11:30 - 12:30)**

time	[id] title	presenter
11:30	[31] Beating the Lyth bound with parametric resonance during inflation	JIANG, Jie
12:00	[32] Scalar Hairy Black Holes with Asymmetric Potential	CHEW, Xiao Yan