

CTPU workshop on Particle Physics and Cosmology

Friday, 20 October 2023

Session: 1 - CTPU Seminar Room (11:00 - 12:20)

-Conveners: Hyun Kyu Lee

time	[id] title	presenter
11:00	[5] Multi-component dark matter	SHIN, Seodong
11:40	[8] Probing dark matter with small-scale astrophysical structures	KIM, Jeong Han

Session: 2 - CTPU Seminar Room (14:00 - 17:00)

-Conveners: Mengchao Zhang

time	[id] title	presenter
14:00	[3] Tackling Combinatorial optimization of the LHC with Quantum Computer	PARK, Myeonghun
14:40	[4] Uncovering doubly charged scalars with dominant three-body decays using machine learning	FLACKE, Thomas
15:20	Break	
15:40	[33] DE from a new confining force	KIM, Jihn E.
16:20	[25] Axion-Like Particles from Primordial Black Holes	PARK, Jong-Chul

Saturday, 21 October 2023

Session: 1 - CTPU Seminar Room (09:20 - 10:40)

-Conveners: Thomas Flacke

time	[id] title	presenter
09:20	[7] New approaches to unravel the nature of dark matter	HUANG, Fa Peng
10:00	[1] Gravitational waves from feebly interacting particles in a first-order phase transition	JINNO, Ryusuke

Session: 2 - CTPU Seminar Room (11:00 - 12:20)

-Conveners: Myeonghun Park

time	[id] title	presenter
11:00	[9] SUSY Clockwork Axion Model and Axion Mediated Dark Matter	BAE, Kyu Jung
11:40	[10] Self-interacting asymmetric dark matter with a dark U(1)'	ZHANG, Mengchao

Session: 3 - CTPU Seminar Room (14:00 - 15:20)

-Conveners: Ryusuke Jinno

time	[id] title	presenter
14:00	[11] Strongly coupled gauge theories beyond QCD"	LEE, Jong-Wan
14:40	[12] Gravitational waves induced by curvature perturbations	TERADA, Takahiro

Monday, 23 October 2023

Session: 1 - CTPU Seminar Room (09:20 - 10:40)

-Conveners: Ryotaro Watanabe

time	[id] title	presenter
09:20	[13] Novel renormalization group improvement for thermally resummed effective potential	SENAHA, Eibun
10:00	[14] Dark Hadrons at the LHC Lifetime Frontier	KUWAHARA, Takumi

Session: 2 - CTPU Seminar Room (11:00 - 12:20)

-Conveners: Pablo Gomis

time	[id] title	presenter
11:00	[15] Perturbations in O(D,D) string cosmology	ANGUS, Stephen
11:40	[16] Recent Developments in Supersymmetric Dualities.	HWANG, Chiung

Session: 3 - CTPU Seminar Room (14:00 - 15:20)

-Conveners: Miok Park

time	[id] title	presenter
14:00	[17] Axion-driven hybrid inflation over a barrier	JEONG, Kwang Sik
14:40	[18] On graviton-photon conversions in magnetic environments	HWANG, Jai-chan

Session: 4 - CTPU Seminar Room (15:40 - 17:00)

-Conveners: Neil David Barrie

time	[id] title	presenter
15:40	[19] Performing a tomographic scan of the universe with neutral hydrogen	ZHANG, Jiajun
16:20	[20] Effective Theory Approach for Axion Wormholes	SHIN, Chang Sub

Tuesday, 24 October 2023

Session: 1 - CTPU Seminar Room (09:20 - 10:40)

-Conveners: Chiung Hwang

time	[id] title	presenter
09:20	[23] On towers of light states at infinite distance	LEE, Seung-Joo
10:00	[24] On the (in)stability of non-supersymmetric AdS	SOLER, Pablo

Session: 2 - CTPU Seminar Room (11:00 - 12:20)

-Conveners: Eibun Senaha

time	[id] title	presenter
11:00	[22] On decorrelation algorithms for high energy physics data analysis'	CHO, Won Sang
11:40	[26] EDM probes on BSM CP violation and the PQ quality	IM, Sang Hui

Session: 3 - CTPU Seminar Room (14:00 - 15:20)

-Conveners: Hyeonseok Seong

time	[id] title	presenter
14:00	[27] RD(*) anomaly: status & recent developments	WATANABE, Ryotaro
14:40	[28] Quantum theory of dark matter scattering.	KAMADA, Ayuki

Session: 4 - CTPU Seminar Room (15:40 - 17:00)

-Conveners: Jai-chan Hwang

time	[id] title	presenter
15:40	[29] Higgs inflation with a Gauss-Bonnet term in the Einstein frame	TUMURTUSHAA, Gansukh
16:20	[30] Thermodynamics with conformal Killing vector in the charged Vaidya metric	PARK, Miok

Wednesday, 25 October 2023

Session: 1 - CTPU Seminar Room (09:20 - 10:40)

-Conveners: Ayuki Kamada

time	[id] title	presenter
09:20	[21] Stochastic axion dark matter	KADOTA, Kenji
10:00	[31] Axion Magnetic Resonance.	SEONG, Hyeonseok

Session: 2 - CTPU Seminar Room (11:00 - 12:20)

-Conveners: Kenji Kadota

time	[id] title	presenter
11:00	[2] Implications of Dark Photon Dark Matter for Gravitational Waves	BARRIE, Neil David
11:40	[32] PBH formation by bubble collisions	JUNG, Tae Hyun

Session: Discussion - CTPU Seminar Room (14:00 - 16:00)