New Perspectives

Wednesday, 22 June 2022

Cosmic Physics: SuperCDMS/NEXUS - One West (08:15 - 09:15)

-Conveners: Samuel McDermott

time	[id] title	presenter
08:15	[41] SuperCDMS in 10 minutes	Dr NOVATI, Valentina
08:30	[43] NEXUS: A low-background, cryogenic facility for detector development and calibrations	TEMPLES, Dylan
08:45	[44] SuperCDMS HVeV program at the NEXUS facility at Fermilab	SUN, Huanbo
09:00	[60] Superconducting qubit studies at NEXUS	LEWIS, Samantha

Cosmic Physics: Dark Matter - One West (09:30 - 10:45)

-Conveners: Dylan Temples

time	[id] title	presenter
09:30	[9] ADMX (Axion Dark Matter eXperiment) in 10 minutes	KNIRCK, Stefan
09:45	[7] DarkSide Program	KIMURA, Masato
10:00	[48] Dark Matter Detection with the Light Dark Matter eXperiment	PASCADLO, Jessica
10:15	[12] The search for low mass Dark Matter with CCDs	PEREZ, Santiago
10:30	[57] Low energy calibration and characterization of novel dark matter detectors with a scanning laser device	MAGOON, Hannah

Cosmic Physics: Theory/CMB - One West (11:00 - 11:45)

-Conveners: Kirit Karkare

time	[id] title	presenter
11:00	[5] The Cosmic-Ray Positron Excess and the Constraints on Milky Way Pulsars	BITTER, Olivia
11:15	[31] Constraining New Physics with the Cosmic Microwave Background	HARRINGTON, Katie
11:30	[36] On-sky Optical Calibration for CMB Experiments	XU, Zhilei

Cosmic Physics: Dark Energy - One West (12:30 - 13:30)

-Conveners: Dan Hooper

time	[id] title	presenter
12:30	[100] Rubin Observatory Legacy Survey of Space and Time (LSST) - a multi-faceted game-changer (LSST in 10 minutes)	AWAN , Humna
12:45	[95] The Dark Energy Survey in 10 minutes	WEAVERDYCK, Noah
13:00	[52] Finding the selection function for DES galaxy-galaxy strong lenses	CLOONAN, Aidan
13:15	[30] Automated Lens Parameter Estimation using Simulation-Based Inference Methods	POH, Jason

<u>Cosmic Physics: Computational/Simulation Methods in Astrophysics and Cosmology</u> - One West (13:45 - 14:30)

   -Conveners: Anastasia Sokolenko

time	[id] title	presenter
13:45	[33] Estimating Parameters of Gravitationally Lensed Quasars with Simulation-Based Inference and SplineCNNs	DANILOV, Egor
14:00	[49] Estimating Cosmological Constraints from Galaxy Cluster Abundance using Simulation-Based Inference	REZA, Moonzarin
14:15	[38] DeepBench: A simulation library for cosmology focused dataset generation	LEWIS, Ashia VOETBERG, Margaret

<u>Cosmic Physics: Computational/Simulation Methods in Astrophysics and Cosmology</u> - One West (13:45 - 14:30)

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