Session Program

13-17 May 2024

DPF-PHENO 2024

DPF - PHENO 2024

Cosmology & Dark Energy

University of Pittsburgh / Carnegie Mellon University

Monday 13 May

	A Dark Energy: BAO review, Dark Radiation, Millicharg tion: University of Pittsburgh, Barco Law Building 107 Convener: Fazlollah Hajkarim
14:00-14:30 Speaker Stefano Anselm	Can we use Baryon Acoustic Oscillations distances?
14:30-14:45	-
14:45-15:00 Speaker Dr Itamar Allali	Cosmological Probes of Dark Radiation from Neutrino Mixing
15:00-15:15 Speaker Mitchell Weikert	Dark Radiation Isocurvature from Cosmological Phase Transition
15:15-15:30 Speaker Xucheng Gan	Cosmic Millicharge Background and Reheating Probes
	& Dark Energy: Anomalies and Baryogenesis tion: University of Pittsburgh, Barco Law Building 107 Convener: Michael Shamma
Session Loca	
Session Loca 16:00-16:15 Speaker	tion: University of Pittsburgh, Barco Law Building 107 Convener: Michael Shamma
Session Loca 16:00-16:15 Speaker David Lindsay 16:15-16:30 Speaker	tion: University of Pittsburgh, Barco Law Building 107 Convener: Michael Shamma w = -1.73 solves the Hubble tension, but destroys the universe A Ratio-Preserving Approach to Concordance Cosmology Dark Acoustic Oscillation Faces the Cosmological Tensions
Session Loca 16:00-16:15 Speaker David Lindsay 16:15-16:30 Speaker Kylar Greene 16:30-16:45 Speaker Dr Taewook You 16:45-17:00	tion: University of Pittsburgh, Barco Law Building 107 Convener: Michael Shamma w = -1.73 solves the Hubble tension, but destroys the universe A Ratio-Preserving Approach to Concordance Cosmology Dark Acoustic Oscillation Faces the Cosmological Tensions

17:15-17:30

Cosmological implications of gauged $U(1)_{B-L}\$ on $\Lambda \in \mathbb{R}^{rm eff}\$ in the CMB and BBN

Speaker

Haidar Esseili

Tuesday 14 May

	smology & Dark Energy: Eary Universe and Stasis sion Location: University of Pittsburgh, Barco Law Building 107 Convener: Dr Taewook Youn
Sp	6:00-16:15 Cosmological Stasis from Dynamical Scalars Deaker of. Brooks Thomas
Sp	6:15-16:30 Cosmological Stasis and the Growth of Density Perturbations Deaker S Anna Paulsen
Sp	6:30-16:45 Cosmological Stasis in a Thermal Environment Deaker Jonah Barber
Sp	6:45-17:00 Supersymmetric Grand Unification at the Cosmological Collider Deaker Ward Broadberry
Sp	7:00-17:15 Domain walls of string theory axions Deaker urav Das
Sp	7:15-17:30 Solving the strong CP problem with massless grand-color quarks Deaker Invineet Bedi

Wednesday 15 May

14:00-14:15	-
14:15-14:30 Speaker Amanda Maci	
14:30-14:45 Peculiar V Speaker Ariel Amseller	elocity Improvements of Multi-Messenger Standard Siren Measureme
14:45-15:00 Speaker Daven Wei Re	
15:00-15:15 Results an Speaker	d progress of CMB lensing measurements using SPT-3G data
W.L. Kimmy V	u
	Producing cosmic birefringence through CP-violating axions
W.L. Kimmy V 15:15-15:30 Speaker Anubhav Mat	Producing cosmic birefringence through CP-violating axions
W.L. Kimmy V 15:15-15:30 Speaker Anubhav Mat Cosmolog Session Lo	Producing cosmic birefringence through CP-violating axions ur y & Dark Energy: Early Universe
W.L. Kimmy V 15:15-15:30 Speaker Anubhav Mat Cosmolog Session Lo 16:00-16:15 Speaker Afif Omar 16:15-16:30	Producing cosmic birefringence through CP-violating axions ur y & Dark Energy: Early Universe ation: University of Pittsburgh, Barco Law Building 107 Convener: Dr Subhajit Ghosh Early Dark Energy During Big Bang Nucleosynthesis

 Speaker
He Li

 17:00-17:15

 Runaway Mergers from Clustering in a Primordial Black Hole Dominated Universe
Speaker
Ian Holst

 17:15-17:30
 Curvature Perturbations Protected Against One Loop

 Speaker
Keisuke Inomata