Session Program

5-9 Dec 2022

The Dark Side of the Universe DSU2022 *Early Universe*

Monday 5 December

Early Univ	/erse ation: Old Main Building, 149 Convener: Sachiko Kuroyanagi
14:00-14:20	CP-violating inflation
Speaker Venus Keus	
14:20-14:40	Type II Seesaw Leptogenesis
Speaker Neil Barrie	
14:40-15:00	Universe with a large lepton asymmetry
Speaker Masahiro Kawa	asaki
15:00-15:20	
Constrainir Waves	ng Phase Transitions in Grand Unified Theories with Gravitational
Speaker Matthew Pearc	ce
15.20-15.40	
15.20-15.40	
Gravitation	al production during reheating phase: the possibility of purely
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17:30-17:50 Signatures of Light Massive Relics on nonlinear structure formation Speaker Ravi Kumar Sharma

17:50

Tuesday 6 December

4:00	Early Universe Session Location: Old Main Building, 149 Convener: Jan Hamann	
	14:00-14:20 Constraining primordial tensor features with the anisotropies of the Cosmic Microwave Background	
	Speaker Ameek Malhotra	
	14:20-14:40 Non-Gaussianity in CMB lensing	
	Speaker Yuqi Kang	
	14:40-15:00 Enhancing Bispectrum Estimators for Photometric Galaxy Redshift Survey with Velocities	
	Speaker Mr Julius Wons	
	15:00-15:20 GPry: Fast Bayesian inference using Gaussian Processes	
	Speaker Jonas El Gammal	
	15:20-15:40 Connecting the dark Universe and artificial intelligence	
5:40	Speaker Andreas Nygaard	
5:10	arly Universe ssion Location: Old Main Building, 149 Convener: Jinn-Ouk Gong	
	16:10-16:30 Constraining astrophysics and cosmology via the kinematic Sunyaev-Zel'dovich effect using SPT and DES data	
	Speaker Eduardo Schiappucci	
	16:30-16:50 High-resolution SZ observations for cluster cosmology with NIKA2	
	Speaker Mr Corentin Hanser	
	16:50-17:10 Probing dark matter microphysics with gravitational waves and 21cm emission	
	Speaker Markus Rasmussen Mosbech	

17:10-17:30 Constraints on decaying dark matter from lensing and magnification of cosmic voids Speaker Earl Lester 17:30-17:50 Discovering a new well: Decaying dark matter with profile likelihoods Speaker Emil Brinch Holm

17:50