

Sixteenth Marcel Grossmann Meeting

Tuesday, 6 July 2021

The Early Universe: Block 1 (09:30 - 12:30)

-Conveners: Stefano Ansoldi

time	[id] title	presenter
09:30	Introduction and technical remarks	
09:40	[27] A Solution of the Cosmological Constant and DE and Arrow of Time, Using Model of a Nonsingular Universe from Rosen from Volume (56) Ettore Majorana International Science Series, Physics, 1991	BECKWITH, Andrew
10:05	Questions and discussion	
10:10	Technical break	
10:15	[337] Helical magnetic fields lead to baryogenesis	Mr KUSHWAHA, Ashu
10:40	Questions and discussion	
10:45	Technical break	
10:50	[601] Examination of Schrodinger equation in pre planckian space-time early universe	BECKWITH, Andrew
11:15	Questions and discussion	
11:20	Technical break	
11:25	[672] General Relativistic Evolution Equations for Density Perturbations in FLRW universes and the Problem of Structure Formation	Dr MIEDEMA, Pieter
11:50	Questions and discussion	
11:55	Technical break	
12:00	[794] Entropy and irreversible processes in gravity and cosmology	ESPINOSA-PORTALÉS, Llorenç
12:25	Questions and discussion	

Wednesday, 7 July 2021

The Early Universe: Block 2 (09:30 - 12:30)

-Conveners: Stefano Ansoldi

time	[id] title	presenter
09:30	Introduction and technical remarks	
09:35	[470] Polymer Quantization of the Isotropic Universe: comparison with the Bounce of Loop Quantum Cosmology	BARCA, Gabriele
10:00	Questions and discussion	
10:04	Technical break	
10:05	[870] A pure general relativistic non-singular bouncing origin for the Universe	BARRAU, Aurélien
10:30	Questions and discussion	
10:34	Technical break	
10:35	[720] Constraining beyond Λ CDM models with 21 cm intensity mapping forecast observations combined with latest CMB data	BERTI, Maria
11:00	Questions and discussion	
11:04	Technical break	
11:05	[68] Quintessential Inflation from Lorentzian Slow Roll	BENISTY, David
11:30	Questions and discussion	
11:34	Technical break	
11:35	[844] Warm inflation and its observational constraints	CORREA, Miguel
12:00	Questions and discussion	
12:04	Technical break	
12:05	[256] Condensed Light, Quantum Black Holes and Λ -CDM Cosmology: Experimentally Suggested and Tested Unified Approach to Dark Matter, Dark Energy, Cosmogenesis and Two-Stage Inflation	BORSEVICI, VICTOR
12:25	Questions and discussion	