

**COSMO 17
GENERAL PROGRAMME**



**Monday August 28th
Primordial Universe**

08:00 - 09:00	REGISTRATION	
09:00 - 09:40	Inflation and Geometry	Diederik Roest (Van Swinderen Instit. for P.P. and Gravity - Univ. of Groningen, The Netherlands)
09:40 - 10:20	Loop corrections for Inflation	Xingang Chen (Harvard University, USA)
10:20 - 11:00	Dark Energy	Filippo Vernizzi (IPhT-CEA/Saclay, France)
11:00 - 11:30	Coffee Break	
11:30 - 12:10	Update on Bouncing and Emergent Cosmologies	Robert Branderberger (McGill University, Canada)
12:10 - 12:50	Emergent Gravity	Eric Verlinde (University of Amsterdam, The Netherlands)
12:50 - 14:20	Lunch	
14:20 - 18:50	Parallel sessions	Large Scale Structure CMB Inflation and Primordial Universe
18:50 - 20:00	Welcome Cocktail	

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Tuesday August 29th
CMB

09:00 - 09:40	The CMB and Inflation: Observational Constraints on the Primordial Curvature Power Spectrum	George Smoot (PCCP, France)
09:40 - 10:20	Cosmic concordance in the CMB and other probes	Silvia Galli (IAP, France)
10:20 - 11:00	Are galactic foregrounds a fundamental limit to characterize primordial CMB B-modes?	Josquin Errard (APC, France)
11:00 - 11:30	Coffee Break	
11:30 - 12:10	Resolving the Tension in H_0	Wendy L. Freedman (University of Chicago, USA)
12:10 - 12:50	Cosmology with Supernovae	Nao Suzuki (KAVLI/IPMU, Japan)
12:50 - 14:20	Lunch	
14:20 - 15:00	Black Holes, Holography and Quantum Information	Daniel Harlow (MIT, USA)
15:00 - 17:00	Round table	Francois Bouchet (IAP, France), John Carlstrom (KICP/U.Chicago/Argonne,USA), Ken Ganga (APC, France), Adrien Lee (UC Berkeley Physics, USA), Masahi Hazumi (KAVLI/IPMU, Japan)
17:00 - 17:20	Coffee Break	
17:20 - 19:20	Parallel sessions	Large Scale Structure Primordial Universe Inflation and Primordial Universe

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Wednesday August 30th
LSS, Dark Energy

09:00 - 09:40	Present and future redshift surveys	David Schlegel (Lawrence Berkeley National Laboratory, USA)
09:40 - 10:20	Relativistic effects in large-scale structure	Camille Bonvin (Dpt. Theoretical Physics, University of Geneva, Switzerland)
10:20 - 11:00	Cosmological results from the Kilo Degree Survey	Hendrik Hildebrandt (Emmy Noether Research Group, AlfA, Germany)
11:00 - 11:30	Coffee Break	
11:30 - 12:10	Cosmological simulations of our Universe	Debora Sijacki (Institute of Astronomy/Kavli Institute for Cosmology, Univ. of Cambridge, UK)
12:10 - 12:50	Large Scale Structures and Neutrinos	Licia Verde (University of Barcelona, Spain)
12:50 - 13:50	Lunch	
13:50 - 18:40	Parallel sessions	Modified Gravity Gravitation Waves + Dark Matter Multi-field + cosmic strings
19:30 - 21:00	Einstein, Black Holes and Gravitational Waves	Barry Barish (Caltech, USA)
21:00 - 22:30	Buffet	

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Thursday August 31st
Gravitational waves and high energy Universe

09:00 - 09:40	Gravitational wave probes of cosmological physics	Scott Hughes (MIT Dpt. of Physics, USA)
09:40 - 10:20	Detection of Gravitational Waves	Chris Van Den Broeck (Nikhef, The Netherlands)
10:20 - 11:00	Cosmology with the gravitational wave interferometer LISA	Chiara Caprini (APC, France)
11:00 - 11:30	Coffee Break	
11:30 - 12:10	Multimessenger Astronomy	Francis Halzen (University of Wisconsin - Madison, USA)
12:10 - 12:50	Cosmic Rays and Cosmology	Angela Olinto (University of Chicago, USA)
12:50 - 14:20	Lunch	
14:20 - 18:50	Parallel sessions	Dark Matter Modified Gravity + Primordial Universe Large Scale Structure + CMB
20:00 - 23:00	Conference Dinner	

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**Friday September 1st
Dark Matter, Particle Physics**

09:00 - 09:40	Particle candidates of dark matter	Ki Young Choi (Chonnam National University, Korea)
09:40 - 10:20	Indirect detection of dark matter: Status and outlook	Christoph Weniger (GRAPPA, Institute of Physics, University of Amsterdam, The Netherlands)
10:20 - 11:00	Primordial black holes and gravitational waves	Misao Sasaki (Yukawa Institute for Theoretical Physics, Kyoto Univ., Japan)
11:00 - 11:30	Coffee Break	
11:30 - 12:10	Searches for Dark Matter at LHC	Andreas Petridis (University of Adelaide, Australia)
12:10 - 12:50	Neutrino properties	Thomas Schwetz (KIT, Germany)
12:50 - 13:30	DarkSide	Cristiano Galbiatti (Princeton University, USA)
13:30 - 14:00	Tribute to Pierre Binetruy	David Langlois (APC, France)
14:00 - 14:30	Summary	Leszek Roszkowski (University of Sheffield, UK and National Centre for Nuclear Research, Poland)
14:30 END OF THE CONFERENCE		