



## Programme of Plenary Lectures

### *Monday 4 July*

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#### *Chair: Fernando Quevedo (AM)*

- 09:30            **Peter Haynes** *Head of DAMTP, University of Cambridge*  
Welcome
- 09:40            **Juan Maldacena** *Institute of Advanced Study, Princeton*  
Conformal gravity and ordinary gravity
- 10:20            **Liam McAllister** *Cornell University*  
The local geometry of stabilized compactifications
- 11:00            COFFEE
- 11:30            **Eva Silverstein** *Stanford University*  
Title TBC
- 12:10            **Paolo Creminelli** *ICTP, Trieste*  
Symmetries of primordial perturbations
- 12:50            LUNCH

#### *Chair: Henry Tye (PM)*

- 14:00            **Alan Barr** *University of Oxford*  
The LHC: the story so far
- 14:40            **James Stirling** *University of Cambridge*  
Phenomenology Tools for the LHC
- 15:20            TEA
- 16:00            **Leonardo Senatore** *Stanford University*  
Title TBC
- 16:40            **Dieter Lüst** *Munich University*  
String harbingers at hadron colliders

*Chair: Liam McAllister*

- 09:00            **Andrei Linde** *Stanford University*  
Inflation 30
- 09:40            **Avi Loeb** *Harvard University*  
21-cm Cosmology: Mapping the Cosmological Distribution of  
Matter in 3D with Spectral Lines
- 10:20            **David Spergel** *Princeton University*  
Probing Early Universe Physics with Measurements of Small  
Scale CMB Fluctuations
- 11:00            COFFEE
- 11:30            **Valerie Gibson** *University of Cambridge*  
Flavour Physics and the LHCb Experiment
- 12:10            **Cliff Burgess** *Perimeter Institute, Toronto*  
Title TBC
- 12:50            LUNCH
- 14:00            Parallel Sessions
- 15:20            TEA
- 16:00            Parallel Sessions

*Chair: David Spergel*

- 09:00            **Sean Hartnoll** *Stanford University*  
Phases of holographic matter
- 09:40            **Shamit Kachru** *Stanford University*  
Comments on holographic condensed matter physics
- 10:20            **John McGreevy** *MIT*  
Non-Abelian statistics versus the Witten anomaly
- 11:00            COFFEE
- 11:30            **George Efstathiou** *University of Cambridge*  
Early Results from Planck
- 12:10            **Will Percival** *Portsmouth University*  
Cosmology from Galaxy Surveys
- 12:50            LUNCH
- 14:00            Parallel Sessions
- 15:20            TEA
- 16:00            Parallel Sessions
- 19:15 for 20:00    Evening Reception and Banquet (King's College)

*Chair: Cliff Burgess*

- 09:00            **Neal Weiner** *New York University*  
Dark Matter in the Era of Data
- 09:40            **Slava Mukhanov** *Munich University*  
Massive Gravity
- 10:20            **Henry Tye** *Cornell University*  
Tunneling in the Landscape : an Experimental Test
- 11:00            COFFEE
- 11:30            **Matias Zaldarriaga** *Institute for Advanced Study, Princeton*  
Non-Gaussianities in the squeezed limit
- 12:10            **Volker Springel** *Heidelberg University*  
Successes and Tensions in LCDM's Predictions for Non-linear  
Structures
- 13:00            LUNCH
- 14:00            Parallel Sessions
- 15:20            TEA
- 16:00            Parallel Sessions

*Chair: Ana Achucarro*

- 09:00            **Alberto Nicolis** *Columbia University*  
Effective field theories for fluids and superfluids
- 09:40            **James Wells** *CERN*  
Top Quarks and New Physics
- 10:20            **Nima Arkani-Hamed** *Princeton University*  
Space-Time, Quantum Mechanics and Scattering Amplitudes
- 11:00            COFFEE
- 11:30            **Frans Pretorius** *Princeton University*  
Gravitational Waves: Probes of the Cosmos and Fundamental  
Physics
- 12:10            **Fernando Quevedo** *ICTP, Trieste*  
Phenomenological aspects of local string models
- 12:50            LUNCH