The Abdus Salam International Centre for Theoretical Physics

Workshop on Cosmology and Strings

Organizer(s): Directors: B. Acharya, P. Creminelli, U. Seljak
Trieste - Italy, 09 - 13 July 2007

Venue: Main Building Main Lecture Hall

Final programme

Monday, 9th July (Room:Main Building Main Lecture Hall)

9 July 2007

08:15 - 09:30	(Room: Main Building, Lobby) **Registration and Administrate Formalities**
09:30 - 10:00	**Introduction by the Director of the ICTP , Prof. K. R. Sreenivasan**
10:00 - 10:45	**P. Binetruy** / *Universite Paris 7, Denis Diderot, Paris, France* **LISA and Cosmology**
10:45 - 11:30	(Room: Main Building Terrace) --- Coffee Break ---
11:30 - 12:15	**R. Bousso** / *University of California at Berkeley, USA* **Lambda in the Landscape**
12:15 - 12:45	**A. Nicolis** / *Harvard University, Cambridge, USA* **A Measure of de Sitter entropy and eternal inflation**
12:30 - 14:30	(Room: Main Building Cafeteria) --- Lunch ---
14:30 - 15:00	**S. Sarangi** / *Columbia University, New York, USA* **Efficient Tunneling in the Landscape**

15:00 - 15:30 **B. Craps** / *Vrije Universiteit Brussel, Brussels, Belgium*
A cosmological singularity in AdS/CFT

15:30 - 16:00 (Room: Main Building, Lobby)
--- Coffee Break ---

16:00 - 16:30 **K. Narayan** / *Tata Institute of Fundamental Research, Mumbai, India*
Cosmologies with null Big-Bang singularities and their gauge theory duals

16:30 - 17:00 **J. Conlon** / *University of Cambridge, Cambridge, UK*
Astrophysics and Cosmology of Large Volume String Compactifications

Tuesday, 10th July (Room:Main Building Main Lecture Hall)

10 July 2007

09:30 - 10:15 **G. Dvali** / *New York University, New York, USA*
Blach Holes and Hierarchy

10:15 - 10:45 **N. Kaloper** / *University of California at Davis, USA*
Charting the Landscape of Modified Gravity

10:45 - 11:30 (Room: Main Building Terrace)
--- Coffee Break ---

11:30 - 12:15 **P. Steinhardt** / *Princeton University, Princeton, USA*
Some speculations on inflation

12:15 - 12:45 **B. Ovrut** / *University of Pennsylvania, Philadelphia, USA*
New Ekpyrotic Cosmology

12:45 - 14:30 (Room: Main Building Cafeteria)
--- Lunch ---

14:30 - 15:00 **J. Khoury** / *Perimeter Inst. for Theoretical Physics, Ontario, Canada*
Phenomenology of New Ekpyrotic Cosmology

15:00 - 15:30 **D. Wands** / *University of Portsmouth, Portsmouth, UK*
Primordial perturbations in the new ekpyrotic model

15:30 - 16:00 **R. Brandenberger** / *McGill University, Montreal, Canada*
Tachyon condensation, string gases and structure formation

16:00 - 16:30 (Room: Main Building, Lobby)
--- Coffee Break ---

Wednesday, 11th July (Room:Main Building Main Lecture Hall)

11 July 2007

09:30 - 10:15 **E. Komatsu** / *University of Texas at Austin, USA*
Gaussianity, Flatness, Tilt, Running, and Gravity Waves: WMAP and Some Future Prospects

10:15 - 11:00 **A. Linde** / *Stanford University, Stanford, USA*
Inflation and Stringy Landscape

11:00 - 11:30 (Room: Main Building Terrace)
--- Coffee Break ---

11:30 - 12:00 **R. Kallosh** / *Stanford University, Stanford, USA*
Testing String Theory with CMB

12:00 - 12:45 **H. Tye** / *Cornell University, Ithaca, USA*
Stringy signatures in Brane Inflation

12:45 - 14:15 (Room: Main Building Cafeteria)
--- Lunch ---

14:15 - 14:45 **G. Shiu** / *University of Wisconsin-Madison, USA*
Probing Warped Geometries from Precision Cosmology and the LHC

14:45 - 15:30 **L. McAllister** / *Princeton University, Princeton, USA*
A Reasonably Explicit Model of D-brane Inflation

15:30 - 16:00 (Room: Main Building, Lobby)
--- Coffee Break ---

16:00 - 16:30 **F. Bernardeu** / *CEA/DSM/SPhT/Saclay, Gif-sur-Yvette cedex, France*
Non-Gaussianities in extended D-term inflation

16:30 - 17:00 **L. Kofman** / *CITA, University of Toronto, Canada*
Making and Probing Inflation

18:30 - 18:30 (Room: Adriatico Guest House (Terrace))
--- RECEPTION ---

Thursday, 12 July (Room:Main Building Main Lecture Hall)

12 July 2007

10:15 - 10:45 **R. Gregory** / *University of Durham, Durham, UK*
Spinflation

10:45 - 11:30 (Room: Main Building Terrace)
--- Coffee Break ---

11:30 - 12:00 **M. Peloso** / *University of Minnesota, Minneapolis, USA*
The fate of SUSY flat directions and their role in reheating

12:00 - 12:45 **X. Siemens** / *California Institute of Technology, Pasadena, USA*
Cosmic (super)strings: Gravitational wave bursts, stochastic background, and experimental constraints

12:45 - 14:15 (Room: Main Building Cafeteria)
--- Lunch ---

14:15 - 15:00 **E. Copeland** / *University of Nottingham, Nottingham, UK*
Strings with junctions

15:00 - 15:30 **L. Pogosian** / *Siman Fraser University, Burnaby, Canada*
B-mode from strings

15:30 - 16:00 (Room: Main Building Cafeteria)
--- Coffee Break ---

16:00 - 16:30 **M. Jackson** / *Fermi National Accelerator Laboratory, Batavia, USA*
Detecting cosmic superstrings

16:30 - 17:00 **H. Firouzjahi** / *McGill University, Montreal, Canada*
(p,q) cosmic strings and brane inflation

Friday, 13th July (Room:Main Building Main Lecture Hall)

13 July 2007

09:30 - 10:15 **C. Baccigalupi** / *S.I.S.S.A.. Trieste, Italy*
Cosmic Microwave Background: scientific expectations from Planck and the future CMB probes

10:15 - 10:45 **G. Kane** / *University of Michigan, Ann Arbor, USA*
Quantum fluctuations may give a small cosmological constant and also inflation without an inflaton

10:45 - 11:30 (Room: Main Building Terrace)
--- Coffee Break ---

11:30 - 12:00 **L. Sorbo** / *University of Massachusetts, Amherst, USA*
Cosmology with pseudo Nambu-Goldstone bosons

12:00 - 12:45 **U. Seljak** / *ICTP, Trieste*
Overview of Large Scale Structure