New Horizons in Inflationary Cosmology

March 3–5, 2017
Stanford Institute for Theoretical Physics

Program

Thursday March 2

Arrival

Friday March 3
Kavli Auditorium, SLAC/KIPAC

08:30-09:00  Registration

Section 1. Chair: Peter Michelson

  09.00-09:35   Alan Guth

  09.35-10:10   John Carlstrom, “Status and future plans for CMB measurements”

10:10-10:40  Coffee break and registration

Section 2. Chair: Kent Irwin

  10:40-11:15 J Richard Bond, “Aspects of Inflation ζ-Phenomenology”

  11:15-11:50 Matias Zaldarriaga

11:50-13:20  Lunch

Section 3. Chair: Michael Dine


  13:55-14:30 Renata Kallosh, “α-attractors and B-mode targets”

  14:30-15:05 Liam McAllister, “B-modes and the Quantization of Parameters”
15:05-15:35  Coffee and discussions

Section 4. Chair: Stephen Shenker

15:35-16:10  Eva Silverstein, “Strongly non-Gaussian theory and analysis”

16:10-16:45  Leonardo Senatore, “The Supersymmetric Effective Field Theory of Inflation”

16:45-17:20  Juan Garcia-Bellido, “Massive Primordial Black Holes from Inflation and their Detection with Gravitational Waves”

19:30  Public Lecture by John Carlstrom, “What do we know about the Big Bang?”
Stanford University, Hewlett Teaching Center, rm. 200

Saturday March 4
Stanford University, Hewlett Teaching Center, rm. 201

Section 5. Chair: Roger Blandford

09.00-09:35  Chao-Lin Kuo

09.35-10:10  Fabio Finelli, “Planck results on inflation and perspectives for future observations”

10:10-10:40  Coffee break

Section 6. Chair: Shamit Kachru

10:40-11:15  Fernando Quevedo


11:50-13:00  Lunch

Section 7. Chair: Leonard Susskind

13:00-13:35  Alexander Vilenkin, “Black holes and baby universes from inflation”

13:35-14:10  James Hartle, “The no-boundary measure”
14:10-14:45  Raphael Bousso, “Cosmological Area Theorem and Second Law”

14:45-15:15  Coffee and discussions

Section 8.  Chair:  Andrei Linde

15:15-15:45  Yusuke Yamada, “Gravitino problem in minimum supergravity inflation”

15:45-16:15  Tomohiro Fujita, “The new relationship between inflation and gravitational waves.”

16:15-16:45  Ali Masoumi, “Inflation in random Gaussian landscapes”

16:45-17:15  Kin-Wang Ng, “Production of massive black holes in trapped inflation”

Sunday March 5
Stanford University, Hewlett Teaching Center, rm.  201

Section 9.  Chair:  Renata Kallosh

09.00-09:35  Alexander Westphal, “(Rel)axion runaways and weakly gravitating axion monodromy”

09.35-10.10  Timm Wrase, “Constrained superfields in string cosmology”

10:10-10:45  Nemanja Kaloper

10:45-11:10  Coffee break

Section 10.  Chair:  Eva Silverstein

11:10-11:45  Thomas Bachlechner, “A new angle on axions”

11:45-12:20  Andrei Linde, “Large field inflation: Recent progress and observational predictions”

12:20-14:00  Lunch