

The 2nd B Mode from Space in Berkeley

Report of Contributions

Contribution ID: 0

Type: **not specified**

Renata Kallosh “Inflation, B-mode targets and fundamental physics”

Monday 4 December 2017 09:10 (20 minutes)

Session Classification: Science

Contribution ID: 1

Type: **not specified**

Ema Dimastrogiovanni “Primordial Gravitational Waves from Axion-Gauge Fields Dynamics”

Monday 4 December 2017 09:30 (20 minutes)

Session Classification: Science

Contribution ID: 2

Type: **not specified**

Robert Caldwell: "A unique and observable prediction of inflation: A toy model of axion gauge field inflation"

Monday 4 December 2017 09:50 (20 minutes)

We present a toy model of an axion gauge field inflation scenario that yields viable density and gravitational wave spectra. The scenario consists of an axionic inflaton in a steep potential that is effectively flattened by a coupling to a collection of non-Abelian gauge fields. The model predicts a blue-tilted gravitational wave spectrum that is dominated by one circular polarization, resulting in unique observational targets for cosmic microwave background (CMB) and gravitational wave experiments. The handedness of the gravitational wave spectrum is incorporated in a model of leptogenesis through the axial-gravitational anomaly. In order to explain the matter-antimatter asymmetry of the Universe, we obtain an approximate lower bound on the tensor-to-scalar ratio that is within reach of CMB experiments

Session Classification: Science

Contribution ID: 3

Type: **not specified**

Cora Dvorkin: "The Early and the Late Universe: Inflationary Features and Implications on Cosmological Parameters"

Monday 4 December 2017 10:30 (20 minutes)

Session Classification: Science

Contribution ID: 4

Type: **not specified**

Daan Meerburg: Beyond 2-point statistics

Monday 4 December 2017 10:10 (20 minutes)

Session Classification: Science

Contribution ID: 5

Type: **not specified**

Toshiya Namikawa: BICEP2/Keck Array Results IX: New Bounds on Anisotropies of CMB Polarization Rotation and Implications for Axionlike Particles and Primordial Magnetic Fields

Monday 4 December 2017 11:10 (20 minutes)

Session Classification: Science

Contribution ID: 6

Type: **not specified**

Vinicius Miranda: Probing Inflation and Reionization with large-scale CMB Polarization

Monday 4 December 2017 11:30 (20 minutes)

Session Classification: Science

Contribution ID: 7

Type: **not specified**

Short presentations (2min x 5)

Monday 4 December 2017 11:50 (10 minutes)

Session Classification: Science

Contribution ID: 8

Type: **not specified**

Discussion

Monday 4 December 2017 12:00 (25 minutes)

Session Classification: Science

Contribution ID: 9

Type: **not specified**

Introduction(E. Komatsu)

Monday 4 December 2017 13:50 (5 minutes)

Session Classification: Foreground

Contribution ID: **10**

Type: **not specified**

Mathieu Remazeilles: Foreground Removal with Commander

Monday 4 December 2017 13:55 (20 minutes)

Session Classification: Foreground

Contribution ID: **11**

Type: **not specified**

Josquin Errard: Foreground removal with xForecast and SMICA

Monday 4 December 2017 14:15 (25 minutes)

Session Classification: Foreground

Contribution ID: 12

Type: **not specified**

Brandon Hensley: Modeling the Frequency Dependence of Polarized Dust Foregrounds

Monday 4 December 2017 14:40 (25 minutes)

Session Classification: Foreground

Contribution ID: **13**

Type: **not specified**

Eddie Schlafly: Dust in 3D from stellar photometry

Monday 4 December 2017 15:05 (25 minutes)

Session Classification: Foreground

Contribution ID: 14

Type: **not specified**

Dale Fixsen: Galactic Dust

Monday 4 December 2017 15:50 (25 minutes)

Session Classification: Foreground

Contribution ID: 15

Type: **not specified**

Francois Boulanger: Latest results on polarized dust foregrounds from Planck

Monday 4 December 2017 16:15 (25 minutes)

Session Classification: Foreground

Contribution ID: **16**

Type: **not specified**

Raphael Flauger: Summary of UCSD workshop

Monday 4 December 2017 16:40 (25 minutes)

Session Classification: Foreground

Contribution ID: 17

Type: **not specified**

Lead: Al Kogut: Discussion on dust removal for B mode observation

Monday 4 December 2017 17:05 (25 minutes)

Session Classification: Foreground

Contribution ID: **18**

Type: **not specified**

N. Halverson: Optics overview

Tuesday 5 December 2017 11:00 (25 minutes)

Session Classification: HWP and Optics

Contribution ID: **19**

Type: **not specified**

H. Imada: Design and physical optics evaluation of LiteBIRD optical system

Tuesday 5 December 2017 11:25 (25 minutes)

Session Classification: HWP and Optics

Contribution ID: 20

Type: **not specified**

SPIDER/BICEP/Keck Optics: Lessons for Space Missions - Dr. Keith Thompson

Tuesday 5 December 2017 11:50 (25 minutes)

Session Classification: HWP and Optics

Contribution ID: **21**

Type: **not specified**

Planck legacy archive demo

Tuesday 5 December 2017 12:15 (25 minutes)

Session Classification: HWP and Optics

Contribution ID: 22

Type: **not specified**

ACTpol HWP (Jeff McMahon)

Tuesday 5 December 2017 14:00 (20 minutes)

Session Classification: HWP and Optics

Contribution ID: 23

Type: **not specified**

Y. Sakurai: Polarization Modulator for LiteBIRD

Tuesday 5 December 2017 14:20 (20 minutes)

Session Classification: HWP and Optics

Contribution ID: 24

Type: **not specified**

C. Hill: CMB polarization modulation using a cryogenic half-wave plate

Tuesday 5 December 2017 14:40 (20 minutes)

Session Classification: HWP and Optics

Contribution ID: 25

Type: **not specified**

J. Didler: Analysis of EBEX HWP systematics from flight data

Tuesday 5 December 2017 15:00 (20 minutes)

Session Classification: HWP and Optics

Contribution ID: 26

Type: **not specified**

F. Columbro: HWP modulator in Rome

Tuesday 5 December 2017 15:20 (20 minutes)

Session Classification: HWP and Optics

Contribution ID: 27

Type: **not specified**

CORE systematics study (Paolo Natoli)

Tuesday 5 December 2017 16:00 (25 minutes)

Session Classification: Systematics

Contribution ID: **28**

Type: **not specified**

Planck systematics (Guillaume Patanchon)

Tuesday 5 December 2017 16:25 (25 minutes)

Session Classification: Systematics

Contribution ID: 29

Type: **not specified**

SPIDER systematics (Edward Young)

Tuesday 5 December 2017 16:50 (25 minutes)

Session Classification: Systematics

Contribution ID: **30**

Type: **not specified**

LiteBIRD systematics study (Hirokazu Ishino)

Tuesday 5 December 2017 17:15 (25 minutes)

Session Classification: Systematics

Contribution ID: **31**

Type: **not specified**

Charles Lawrence: Data analysis for space mission

Wednesday 6 December 2017 09:00 (25 minutes)

Session Classification: Analysis

Contribution ID: 32

Type: **not specified**

Reijo Keskitalo: pre-processing/map-making

Wednesday 6 December 2017 09:25 (25 minutes)

Session Classification: Analysis

Contribution ID: 33

Type: **not specified**

Carlo Baccigalupi: component separation

Wednesday 6 December 2017 09:50 (25 minutes)

Session Classification: Analysis

Contribution ID: **34**

Type: **not specified**

Graca Rocha: maps2science

Wednesday 6 December 2017 10:15 (20 minutes)

Session Classification: Analysis

Contribution ID: 35

Type: **not specified**

Synchrotron spectral index: Elena Orlando (Stanford)

Wednesday 6 December 2017 13:30 (25 minutes)

Session Classification: Other missions, experiments synergies

Contribution ID: **36**

Type: **not specified**

CBASS: Michael Jones (Oxford)

Wednesday 6 December 2017 13:55 (25 minutes)

Session Classification: Other missions, experiments synergies

Contribution ID: 37

Type: **not specified**

Sean: BFORE

Wednesday 6 December 2017 14:20 (20 minutes)

Session Classification: Other missions, experiments synergies

Contribution ID: **38**

Type: **not specified**

Belen: QUIJOTE

Wednesday 6 December 2017 14:40 (20 minutes)

Session Classification: Other missions, experiments synergies

Contribution ID: 39

Type: **not specified**

Shaul Hanany: PICO

Wednesday 6 December 2017 15:55 (25 minutes)

Session Classification: Experiments in 20s/Delensing

Contribution ID: 40

Type: **not specified**

Masashi Hazumi: LiteBIRD

Wednesday 6 December 2017 16:20 (25 minutes)

Session Classification: Experiments in 20s/Delensing

Contribution ID: **41**

Type: **not specified**

Kimmy Wu

Wednesday 6 December 2017 11:00 (25 minutes)

Session Classification: Experiments in 20s/Delensing

Contribution ID: 42

Type: **not specified**

J. Colin Hill

Wednesday 6 December 2017 11:50 (25 minutes)

Session Classification: Experiments in 20s/Delensing

Contribution ID: 43

Type: **not specified**

Alex van Engelen

Wednesday 6 December 2017 11:25 (25 minutes)

Session Classification: Experiments in 20s/Delensing

Contribution ID: 44

Type: **not specified**

Discussion

Contribution ID: 45

Type: **not specified**

Jay Austermann - TES

Tuesday 5 December 2017 09:00 (20 minutes)

Session Classification: Detector and Readout

Contribution ID: 46

Type: **not specified**

Alan Kogut - Multimode detectors for CMB studies

Tuesday 5 December 2017 09:20 (20 minutes)

Session Classification: Detector and Readout

Contribution ID: 47

Type: **not specified**

Brad Johnson - MKID

Tuesday 5 December 2017 09:40 (20 minutes)

Session Classification: Detector and Readout

Contribution ID: 48

Type: **not specified**

Kam Arnold - TES Readout

Tuesday 5 December 2017 10:00 (25 minutes)

Session Classification: Detector and Readout

Contribution ID: 49

Type: **not specified**

TBA

Contribution ID: **50**

Type: **not specified**

Lloyd Knox: CMB-S4

Wednesday 6 December 2017 15:30 (25 minutes)

Session Classification: Experiments in 20s/Delensing

Contribution ID: 51

Type: **not specified**

Jeff Filippini - Cosmic ray events with SPIDER

Tuesday 5 December 2017 10:25 (15 minutes)

Session Classification: Detector and Readout