

**41st SLAC Summer Institute**

**Report of Contributions**

Contribution ID: 0

Type: **not specified**

## Higher Order QCD for LHC

**Presenter:** BERN, Zvi (Univ. of California Los Angeles (US))

Contribution ID: 1

Type: **not specified**

## Higgs Searches at Tevatron

**Presenter:** KNOEPFEL, Kyle (Fermi National Accelerator Laboratory)

Contribution ID: 2

Type: **not specified**

## Higgs Search at ATLAS

**Presenter:** WU, Sau Lan (University of Wisconsin (US))

Contribution ID: 3

Type: **not specified**

## Higgs Search at CMS

**Presenter:** Dr BORTOLETTO, Daniela (Purdue University (US))

Contribution ID: 4

Type: **not specified**

## Heavy Flavor Physics Results from LHC

**Presenter:** TUNING, Niels (NIKHEF (NL))

Contribution ID: 5

Type: **not specified**

## **New Results from BaBar**

**Presenter:** ECHENARD, Bertrand (Caltech)

Contribution ID: 6

Type: **not specified**

## **Search for Neutrinoless Double Beta Decay with EXO-200**

**Presenter:** DOLINSKI, Michelle (Stanford University)

Contribution ID: 7

Type: **not specified**

## Neutrino Mixing Angle Theta13

**Presenter:** DWYER, Daniel (LBNL)

Contribution ID: 8

Type: **not specified**

## **Dark Matter Search with CDMS**

**Presenter:** SAAB, Tarek (University of Florida)

Contribution ID: 9

Type: **not specified**

## Dark Matter Search with XENON

**Presenter:** BUDNICK, Ranny (Columbia University)

Contribution ID: **10**

Type: **not specified**

## **New Results from Fermi**

**Presenter:** CHARLES, Eric (SLAC)

Contribution ID: 11

Type: **not specified**

## Standard Model Measurements at LHC

**Presenter:** LE COMPTE, Thomas (Argonne National Laboratory (US))

Contribution ID: 12

Type: **not specified**

## **Beyond Standard Model Searches at LHC**

**Presenter:** HEINTZ, Ulrich (Brown University (US))

Contribution ID: 13

Type: **not specified**

## Dark Photon

**Presenter:** GRAHAM, Mathew Thomas (SLAC National Accelerator Laboratory)

Contribution ID: 14

Type: **not specified**

## **Photon Line from the Galactic Center as Signals of Dark Matter Annihilation**

**Presenters:** TAIT, Tim (UC Irvine); TAIT, Tim (University of California, Irvine)

Contribution ID: 15

Type: **not specified**

## Energy Frontier Physics: The Big Questions (II)

*Tuesday 9 July 2013 09:00 (1 hour)*

**Presenter:** PESKIN, Michael (SLAC)

**Session Classification:** Lectures

Contribution ID: 16

Type: **not specified**

# Exploring the Energy Frontier with Hadron Colliders (I)

*Tuesday 9 July 2013 10:30 (1 hour)*

**Presenter:** BROOIJMANS, Gustaaf (Columbia University (US))

**Session Classification:** Lectures

Contribution ID: 17

Type: **not specified**

## **Instrumentation on the Energy Frontier (I)**

*Tuesday 9 July 2013 11:45 (1 hour)*

**Presenter:** Dr LIPTON, Ronald (Fermi National Accelerator Lab. (US))

**Session Classification:** Lectures

Contribution ID: **18**

Type: **not specified**

## **Broad Overview**

*Monday 8 July 2013 09:00 (1 hour)*

**Presenter:** MACFARLANE, David Brian (SLAC National Accelerator Laboratory)

**Session Classification:** Lectures

Contribution ID: **19**

Type: **not specified**

## **Energy Frontier Physics: The Big Questions (I)**

*Monday 8 July 2013 10:30 (1 hour)*

**Presenter:** PESKIN, Michael (SLAC)

**Session Classification:** Lectures

Contribution ID: 20

Type: **not specified**

# Accelerating Protons

*Monday 8 July 2013 11:45 (1 hour)*

**Presenter:** MYERS, Steve (CERN)

**Session Classification:** Lectures

Contribution ID: 21

Type: **not specified**

## Advanced Acceleration Techniques

*Friday 19 July 2013 09:00 (1 hour)*

**Presenter:** HOGAN, Mark (SLAC)

**Session Classification:** Lectures

Contribution ID: 22

Type: **not specified**

## Flavor Physics: The Big Questions (I)

*Thursday 11 July 2013 10:30 (1 hour)*

**Presenter:** LIGETI, Zoltan (Lawrence Berkeley National Lab. (US))

**Session Classification:** Lectures

Contribution ID: 23

Type: **not specified**

## Hadron Facilities for Flavor Physics

*Thursday 11 July 2013 11:45 (1 hour)*

**Presenter:** ARTUSO, Marina (Syracuse University (US))

**Session Classification:** Lectures

Contribution ID: 24

Type: **not specified**

# Accelerating Electrons

*Wednesday 10 July 2013 10:30 (1 hour)*

**Presenter:** PHINNEY, Nanette (SLAC National Accelerator Laboratory (US))

**Session Classification:** Lectures

Contribution ID: 25

Type: **not specified**

## Exploring the Energy Frontier with Lepton Colliders

*Wednesday 10 July 2013 11:30 (1 hour)*

**Presenter:** Prof. AIHARA, Hiroaki (University of Tokyo)

**Session Classification:** Lectures

Contribution ID: 26

Type: **not specified**

## **Detector Instrumentation on the Energy Frontier (II)**

*Thursday 11 July 2013 09:00 (1 hour)*

**Presenter:** Dr LIPTON, Ronald (Fermi National Accelerator Lab. (US))

**Session Classification:** Lectures

Contribution ID: 27

Type: **not specified**

## Neutrino Physics: The Big Questions (I)

*Monday 15 July 2013 09:00 (1 hour)*

**Presenter:** FRIEDLAND, Alexander (Los Alamos National Laboratory)

**Session Classification:** Lectures

Contribution ID: 28

Type: **not specified**

## Neutrino Sources

*Monday 15 July 2013 10:30 (1 hour)*

**Presenter:** ZELLER, Sam (Fermilab)

**Session Classification:** Lectures

Contribution ID: 29

Type: **not specified**

## Neutrino Detectors

*Monday 15 July 2013 11:45 (1 hour)*

**Presenter:** ZELLER, Sam (Fermilab)

**Session Classification:** Lectures

Contribution ID: **30**

Type: **not specified**

## **Flavor Physics: The Big Questions (II)**

*Friday 12 July 2013 10:30 (1 hour)*

**Presenter:** LIGETI, Zoltan (Lawrence Berkeley National Lab. (US))

**Session Classification:** Lectures

Contribution ID: **31**

Type: **not specified**

## **Project X**

*Friday 12 July 2013 09:00 (1 hour)*

**Presenter:** TSCHIRHART, Bob (FNAL)

**Session Classification:** Lectures

Contribution ID: 32

Type: **not specified**

## Lepton Facilities for Flavor Physics

*Friday 12 July 2013 11:45 (1 hour)*

**Presenter:** Prof. BROWDER, Tom (University of Hawaii)

**Session Classification:** Lectures

Contribution ID: 33

Type: **not specified**

## **Cosmic Frontier Physics: The Big Questions (II)**

*Wednesday 17 July 2013 09:00 (1 hour)*

**Presenter:** KAMIONKOWSKI, Marc (Johns Hopkins University)

**Session Classification:** Lectures

Contribution ID: 34

Type: **not specified**

## Searching for Dark Matter in the Sky

*Wednesday 17 July 2013 10:30 (1 hour)*

**Presenter:** PROFUMO, Stefano (UC Santa Cruz)

**Session Classification:** Lectures

Contribution ID: 35

Type: **not specified**

## Searching for Dark Matter Underground

*Thursday 18 July 2013 10:30 (1 hour)*

**Presenter:** Prof. GAITSKELL, Richard (Brown University)

**Session Classification:** Lectures

Contribution ID: 36

Type: **not specified**

## Neutrino Physics: The Big Questions (II)

*Tuesday 16 July 2013 09:00 (1 hour)*

**Presenter:** FRIEDLAND, Alexander (Los Alamos National Laboratory)

**Session Classification:** Lectures

Contribution ID: 37

Type: **not specified**

## Neutrinoless Double Beta Decay

*Tuesday 16 July 2013 10:30 (1 hour)*

**Presenter:** DOLINSKI, Michelle (Drexel University)

**Session Classification:** Lectures

Contribution ID: **38**

Type: **not specified**

## **Cosmic Frontier Physics: The Big Questions (I)**

*Tuesday 16 July 2013 11:45 (1 hour)*

**Presenter:** KAMIONKOWSKI, Marc (Johns Hopkins University)

**Session Classification:** Lectures

Contribution ID: 39

Type: **not specified**

# The Cosmic Microwave Background

*Thursday 18 July 2013 09:00 (1 hour)*

**Presenter:** KAMIONKOWSKI, Marc (Johns Hopkins University)

**Session Classification:** Lectures

Contribution ID: 40

Type: **not specified**

# Exploring the Cosmic Microwave Background

*Friday 19 July 2013 10:30 (1 hour)*

**Presenter:** Prof. KUO, Chao-Lin (Stanford University)

**Session Classification:** Lectures

Contribution ID: 41

Type: **not specified**

## A View Ahead

*Friday 19 July 2013 11:45 (1 hour)*

**Presenter:** HEWETT, JoAnne (SLAC)

**Session Classification:** Lectures

Contribution ID: 42

Type: **not specified**

## Complementarity of Dark Matter Searches

Contribution ID: 43

Type: **not specified**

## Cosmic Particles

*Wednesday 17 July 2013 11:45 (1 hour)*

**Presenter:** OLINTO, Angela (The University of Chicago)

**Session Classification:** Lectures

Contribution ID: 44

Type: **not specified**

## **Instrumentation on the Cosmic Frontier**

*Thursday 18 July 2013 11:45 (1 hour)*

**Presenter:** BUCKLEY, James (Washington University)

**Session Classification:** Lectures

Contribution ID: 45

Type: **not specified**

## How the SSI Began

**Presenter:** Prof. LEITH, David (SLAC)

Contribution ID: 46

Type: **not specified**

## 40 Years of QCD

**Presenter:** Prof. DIXON, LANCE (SLAC National Accelerator Laboratory (US))

Contribution ID: 47

Type: **not specified**

## 40 Years of Higgs Boson

**Presenter:** PESKIN, Michael (SLAC)

Contribution ID: 48

Type: **not specified**

## The Precision Electroweak Measurements

**Presenters:** SWARTZ, Morris (Johns Hopkins University (JHU)); SWARTZ, Morris (Johns Hopkins University (US))

Contribution ID: 49

Type: **not specified**

## 12 Best Reasons to Like CP Violation

**Presenter:** NIR, Yosef (Weizmann Institute of Science (IL))

Contribution ID: **50**

Type: **not specified**

## **Q & A**

*Wednesday 10 July 2013 14:45 (1h 15m)*

**Session Classification:** Discussions & Projects

Contribution ID: 51

Type: **not specified**

## **Project working session**

*Wednesday 10 July 2013 16:30 (1h 15m)*

**Session Classification:** Discussions & Projects

Contribution ID: 52

Type: **not specified**

## Q & A

Contribution ID: 53

Type: **not specified**

## **Project working session**

Contribution ID: 54

Type: **not specified**

## Presentation of Projects

Contribution ID: 55

Type: **not specified**

## Presentation of Projects

Contribution ID: 56

Type: **not specified**

## Q & A

Contribution ID: 57

Type: **not specified**

## **Project working session**

Contribution ID: **60**

Type: **not specified**

## Poster Social

*Thursday 11 July 2013 18:00 (1 hour)*

Contribution ID: **63**

Type: **not specified**

## **Soccer**

*Wednesday 17 July 2013 17:30 (2 hours)*

Contribution ID: 64

Type: **not specified**

## Exploring the Energy Frontier with Hadron Colliders (II)

*Wednesday 10 July 2013 09:00 (1 hour)*

**Presenter:** BROOIJMANS, Gustaaf (Columbia University (US))

**Session Classification:** Lectures

Contribution ID: 65

Type: **not specified**

## Q & A

*Monday 8 July 2013 14:45 (1h 15m)*

**Session Classification:** Discussions & Project kick-off

Contribution ID: **66**

Type: **not specified**

## **Project kick-off**

*Monday 8 July 2013 16:30 (1h 15m)*

**Session Classification:** Discussions & Project kick-off

Contribution ID: 67

Type: **not specified**

## Q & A

*Monday 15 July 2013 14:45 (1h 15m)*

**Session Classification:** Discussion & Projects

Contribution ID: **68**

Type: **not specified**

## **Project working session**

*Monday 15 July 2013 16:30 (1h 15m)*

**Session Classification:** Discussion & Projects

Contribution ID: **69**

Type: **not specified**

## **Scientific Education: K-12**

*Friday 12 July 2013 14:45 (30 minutes)*

**Presenter:** QUINN, Helen (SLAC)

**Session Classification:** Outreach

Contribution ID: 70

Type: **not specified**

## How to Write about Science

*Friday 12 July 2013 15:15 (30 minutes)*

**Presenter:** TUTTLE, Kelen (SLAC)

**Session Classification:** Outreach

Contribution ID: 71

Type: **not specified**

## **How to Produce a Scientific Documentary**

*Friday 12 July 2013 16:45 (30 minutes)*

**Presenter:** LUND, Tony (Revelations Entertainment)

**Session Classification:** Outreach

Contribution ID: 72

Type: **not specified**

## How to perform outreach for an experiment

*Friday 12 July 2013 16:15 (30 minutes)*

**Presenter:** BARNETT, Michael (Lawrence Berkeley National Lab. (US))

**Session Classification:** Outreach

Contribution ID: 73

Type: **not specified**

## Results from the Tevatron

*Tuesday 9 July 2013 14:45 (30 minutes)*

**Presenter:** SCHWIENHORST, Reinhard (Michigan State University (US))

**Session Classification:** Topical Conference I

Contribution ID: 74

Type: **not specified**

## Recent Results from ATLAS

*Tuesday 9 July 2013 15:15 (45 minutes)*

**Presenter:** NIELSEN, Jason (University of California,Santa Cruz (US))

**Session Classification:** Topical Conference I

Contribution ID: 75

Type: **not specified**

## Recent Results from CMS

*Tuesday 9 July 2013 16:20 (45 minutes)*

**Presenter:** LANNON, Kevin Patrick (University of Notre Dame (US))

**Session Classification:** Topical Conference I

Contribution ID: 76

Type: **not specified**

## Standard Model Physics at the LHC

Contribution ID: 77

Type: **not specified**

## Search for New Physics at the LHC

Contribution ID: 78

Type: **not specified**

## Results from LHCb

*Thursday 11 July 2013 14:45 (30 minutes)*

**Presenter:** GRAUGES POUS, Eugeni (University of Barcelona (ES))

**Session Classification:** Topical Conference II

Contribution ID: 79

Type: **not specified**

## Results from the B-factories

*Thursday 11 July 2013 15:15 (30 minutes)*

**Presenter:** ANULLI, Fabio (Universita e INFN, Roma I (IT))

**Session Classification:** Topical Conference II

Contribution ID: **80**

Type: **not specified**

## Results from T2K

*Thursday 11 July 2013 16:05 (30 minutes)*

**Presenter:** DI LUISE, Silvestro (Eidgenoessische Tech. Hochschule Zuerich (CH))

**Session Classification:** Topical Conference II

Contribution ID: **81**

Type: **not specified**

## **Reactor Measurements of Theta\_13**

*Thursday 11 July 2013 16:35 (30 minutes)*

**Presenter:** TERA0, Kazuhiro (Columbia University)

**Session Classification:** Topical Conference II

Contribution ID: **82**

Type: **not specified**

## Results from IceCube

*Thursday 11 July 2013 17:05 (30 minutes)*

**Presenter:** HA, Chang Hyon (LBNL)

**Session Classification:** Topical Conference II

Contribution ID: **83**

Type: **not specified**

## Results from Fermi

*Tuesday 16 July 2013 15:15 (30 minutes)*

**Presenter:** WOOD, Matthew (SLAC)

**Session Classification:** Topical Conference III

Contribution ID: **84**

Type: **not specified**

**TBA**

Contribution ID: 85

Type: **not specified**

## Results from Planck

*Tuesday 16 July 2013 14:45 (30 minutes)*

**Presenter:** MILLEA, Marius (UC Davis)

**Session Classification:** Topical Conference III

Contribution ID: **86**

Type: **not specified**

## Results from CDMS

*Tuesday 16 July 2013 16:05 (30 minutes)*

**Presenter:** SERFASS, Bruno

**Session Classification:** Topical Conference III

Contribution ID: 87

Type: **not specified**

## Complementarity of Dark Matter Searches

*Tuesday 16 July 2013 16:35 (30 minutes)*

**Presenter:** ISMAIL, Ahmed (SLAC National Accelerator Laboratory)

**Session Classification:** Topical Conference III

Contribution ID: **88**

Type: **not specified**

## Q & A

*Wednesday 17 July 2013 14:45 (1h 15m)*

**Session Classification:** Discussion & Projects

Contribution ID: **89**

Type: **not specified**

## **Project working session**

*Wednesday 17 July 2013 16:30 (1 hour)*

**Session Classification:** Discussion & Projects

Contribution ID: **90**

Type: **not specified**

## **Q & A for lectures**

*Thursday 18 July 2013 14:45 (45 minutes)*

**Session Classification:** Presentations of Projects

Contribution ID: **91**

Type: **not specified**

## **CF1: 8 GeV WIMP DM**

*Thursday 18 July 2013 15:30 (30 minutes)*

**Presenter:** KOBACH, Andrew (Northwestern University)

**Session Classification:** Presentations of Projects

Contribution ID: 92

Type: **not specified**

## CF2: 130 GeV Gamma Line

*Thursday 18 July 2013 16:20 (30 minutes)*

**Presenters:** WANOTAYAROJ, Chaowaroj (University of Oregon (US)); UEMURA, Sho (SLAC National Accelerator Laboratory (US))

**Session Classification:** Presentations of Projects

Contribution ID: 93

Type: **not specified**

## **EF1: 4th generation b'**

*Thursday 18 July 2013 16:50 (30 minutes)*

**Presenter:** BESJES, Geert Jan (Radboud University Nijmegen (NL))

**Session Classification:** Presentations of Projects

Contribution ID: 94

Type: **not specified**

## **IF1: on/off-axis neutrino for Mass Hierarchy/CPV**

*Thursday 18 July 2013 17:20 (30 minutes)*

**Session Classification:** Presentations of Projects