

Frontiers in Particle Physics: From Dark Matter to the LHC and Beyond

Report of Contributions

Contribution ID: 0

Type: **not specified**

Theory Overview

Sunday 19 January 2014 08:00 (40 minutes)

Primary author: LYKKEN, Joseph David (Fermi National Accelerator Lab. (US))

Presenter: LYKKEN, Joseph David (Fermi National Accelerator Lab. (US))

Session Classification: Present and Future - overview of theory and experiments

Contribution ID: 1

Type: **not specified**

Experiment overview

Sunday 19 January 2014 08:40 (40 minutes)

Primary author: LANKFORD, Andrew James (University of California Irvine (US))

Presenter: LANKFORD, Andrew James (University of California Irvine (US))

Session Classification: Present and Future - overview of theory and experiments

Contribution ID: 2

Type: **not specified**

Theoretical predictions for top-pair and single-top production

Sunday 19 January 2014 09:40 (25 minutes)

Primary author: KIDONAKIS, Nikolaos (Kennesaw State University)

Presenter: KIDONAKIS, Nikolaos (Kennesaw State University)

Session Classification: Top physics

Contribution ID: 3

Type: **not specified**

Top BSM - boosted and resonances

Sunday 19 January 2014 10:05 (25 minutes)

Primary author: ERBACHER, Robin (University of California Davis (US))

Presenter: ERBACHER, Robin (University of California Davis (US))

Session Classification: Top physics

Contribution ID: 4

Type: **not specified**

Top cross section, asymmetry and single top

Sunday 19 January 2014 10:30 (25 minutes)

Primary author: Prof. ECKLUND, Karl (Rice University (US))

Presenter: Prof. ECKLUND, Karl (Rice University (US))

Session Classification: Top physics

Contribution ID: 5

Type: **not specified**

Top BSM theory

Sunday 19 January 2014 16:00 (25 minutes)

Presenter: PEREZ, Gilad (CERN & Weizmann)

Session Classification: Top physics

Contribution ID: 6

Type: **not specified**

Measurements of top quark mass (to cover ATLAS+CMS+Tevatron)

Sunday 19 January 2014 16:25 (25 minutes)

Presenter: GRAHN, Karl-Johan (Deutsches Elektronen-Synchrotron (DE))

Session Classification: Top physics

Contribution ID: 7

Type: **not specified**

Electroweak Theory

Sunday 19 January 2014 16:50 (25 minutes)

Primary author: HAN, Tao (University of Pittsburgh)

Presenter: HAN, Tao (University of Pittsburgh)

Session Classification: Top physics

Contribution ID: 8

Type: **not specified**

Electroweak Experiment

Sunday 19 January 2014 17:40 (25 minutes)

Primary author: BERRYHILL, Jeffrey (Fermi National Accelerator Lab. (US))

Presenter: BERRYHILL, Jeffrey (Fermi National Accelerator Lab. (US))

Session Classification: Electroweak Physics

Contribution ID: 9

Type: **not specified**

Mu2e Experiment

Sunday 19 January 2014 18:05 (25 minutes)

Presenter: KUTSCHKE, Robert (Femilab)

Session Classification: Electroweak Physics

Contribution ID: **10**

Type: **not specified**

QCD Theory

Tuesday 21 January 2014 16:30 (25 minutes)

Primary author: PETRIELLO, Frank (Northwestern University)

Presenter: PETRIELLO, Frank (Northwestern University)

Session Classification: QCD

Contribution ID: 11

Type: **not specified**

Parton Distribution Functions

Tuesday 21 January 2014 16:55 (25 minutes)

Presenter: Prof. HUSTON, Joey (Michigan State University (US))

Session Classification: QCD

Contribution ID: 12

Type: **not specified**

QCD Experiment

Tuesday 21 January 2014 17:20 (25 minutes)

Presenter: BIENIEK, Stephen Paul (University College London)

Session Classification: QCD

Contribution ID: 13

Type: **not specified**

BSM and flavor

Tuesday 21 January 2014 18:05 (25 minutes)

Presenter: ALTMANNSHOFER, Wolfgang (F)

Session Classification: Heavy Flavor

Contribution ID: 14

Type: **not specified**

Rare heavy flavor decays at the LHC

Tuesday 21 January 2014 18:30 (25 minutes)

Presenter: Dr SHIRES, Alexander (Technische Universitaet Dortmund (DE))

Session Classification: Heavy Flavor

Contribution ID: 15

Type: **not specified**

CP violation in B and D mesons

Tuesday 21 January 2014 18:55 (25 minutes)

Presenter: JOHNSON, Daniel (University of Oxford (GB))

Session Classification: Heavy Flavor

Contribution ID: 16

Type: **not specified**

B- \rightarrow K^{*} $\mu\mu$ Theory

Wednesday 22 January 2014 08:00 (25 minutes)

Presenters: JAGER, Sebastian; JAGER, Sebastian

Session Classification: Heavy Flavor

Contribution ID: 17

Type: **not specified**

Bs->mumu Theory

Wednesday 22 January 2014 08:25 (25 minutes)

Presenter: STAMOU, Emmanuel (TUM)

Session Classification: Heavy Flavor

Contribution ID: **18**

Type: **not specified**

Heavy flavor at lepton colliders

Wednesday 22 January 2014 08:50 (25 minutes)

Presenter: KINOSHITA, Kay (University of Cincinnati)

Session Classification: Heavy Flavor

Contribution ID: **19**

Type: **not specified**

TBD

Presenter: ZUREK, Kathryn (University of Michigan)

Contribution ID: 20

Type: **not specified**

SuperCDMS

Thursday 23 January 2014 08:00 (25 minutes)

Presenter: MIRABOLFATHI, Nader (UC-Berkeley)

Session Classification: Dark Matter

Contribution ID: 21

Type: **not specified**

First Results from the LUX Dark Matter Experiment

Thursday 23 January 2014 08:25 (25 minutes)

Presenter: GIBSON, Karen (Case Western Reserve University)

Session Classification: Dark Matter

Contribution ID: 22

Type: **not specified**

New Dark Matter Detectors using DNA for Nanometer Tracking

Tuesday 21 January 2014 10:05 (25 minutes)

Presenter: FREESE, Katherine

Session Classification: Dark Matter

Contribution ID: 23

Type: **not specified**

Self-interacting dark matter

Thursday 23 January 2014 08:50 (25 minutes)

Presenter: YU, Hai-Bo (University of Michigan)

Session Classification: Dark Matter

Contribution ID: 24

Type: **not specified**

Cosmic Ray Physics

Presenter: SLATYER, Tracy (Harvard University)

Contribution ID: 25

Type: **not specified**

News from Fermi

Presenter: SIEGAL-GASKINS, Jennifer

Contribution ID: 26

Type: **not specified**

HESS results

Presenter: DOMAINKO, Wilfried

Contribution ID: 27

Type: **not specified**

Fundamental physics from current and future cosmological probes

Thursday 23 January 2014 09:40 (25 minutes)

Presenter: SLOSAR, Anze

Session Classification: Astrophysics and Cosmology

Contribution ID: 28

Type: **not specified**

Towards the measurements of mass hierarchy and CP violation in neutrino oscillations

Wednesday 22 January 2014 09:25 (25 minutes)

Presenter: WINTER, Walter (Wurzburg University)

Session Classification: Neutrinos

Contribution ID: 29

Type: **not specified**

Model Building for Lepton Mixing and Neutrino Masses

Wednesday 22 January 2014 09:50 (25 minutes)

Presenter: HAGEDORN, Claudia (INFN, Section of Padua)

Session Classification: Neutrinos

Contribution ID: **30**

Type: **not specified**

Current experimental situation in neutrino physics

Wednesday 22 January 2014 10:45 (25 minutes)

Presenter: PATTERSON, Ryan (Caltech)

Session Classification: Neutrinos

Contribution ID: **31**

Type: **not specified**

Planning for Future Neutrino Experiments

Wednesday 22 January 2014 11:10 (25 minutes)

Presenter: Dr SOUSA, Alexandre (Harvard University)

Session Classification: Neutrinos

Contribution ID: 32

Type: **not specified**

Flavored BSM vs. the LHC

Thursday 23 January 2014 16:00 (25 minutes)

Presenter: WEILER, Andreas (CERN)

Session Classification: SUSY and Exotica

Contribution ID: 33

Type: **not specified**

New strong interactons and the top pair forward-backward asymmetry

Thursday 23 January 2014 16:25 (25 minutes)

Presenter: KAGAN, Alexander (university of cincinnati)

Session Classification: SUSY and Exotica

Contribution ID: 34

Type: **not specified**

Dynamical R-Parity Violation

Thursday 23 January 2014 16:50 (25 minutes)

Presenter: KUFLIK, Eric

Session Classification: SUSY and Exotica

Contribution ID: 35

Type: **not specified**

SUSY after the Higgs Discovery

Thursday 23 January 2014 17:40 (25 minutes)

Presenter: CARENA, Marcela

Session Classification: SUSY and Exotica

Contribution ID: 36

Type: **not specified**

SUSY and Exotica at CMS

Thursday 23 January 2014 18:05 (25 minutes)

Presenter: HIRSCHAUER, Jim (Fermi National Accelerator Lab. (US))

Session Classification: SUSY and Exotica

Contribution ID: 37

Type: **not specified**

SUSY and exotica at ATLAS

Thursday 23 January 2014 18:30 (25 minutes)

Presenter: BACHACOU, Henri (CEA/IRFU,Centre d'étude de Saclay Gif-sur-Yvette (FR))

Session Classification: SUSY and Exotica

Contribution ID: **38**

Type: **not specified**

Theory Summary

Friday 24 January 2014 09:40 (37 minutes)

Presenter: MANGANO, Michelangelo (CERN)

Session Classification: Summaries

Contribution ID: 39

Type: **not specified**

Experimental Summary

Friday 24 January 2014 10:17 (37 minutes)

Presenter: LANDSBERG, Greg (Brown University (US))

Session Classification: Summaries

Contribution ID: 40

Type: **not specified**

Higgs production with a jet veto

Monday 20 January 2014 09:40 (25 minutes)

Presenter: Prof. NEUBERT, Matthias (Johannes Gutenberg Universitat Mainz)

Session Classification: Higgs Physics

Contribution ID: 41

Type: **not specified**

Matching NNLO Calculations and Parton Showers

Monday 20 January 2014 10:05 (25 minutes)

Presenter: ALIOLI, Simone (LBNL & UC Berkeley)

Session Classification: Higgs Physics

Contribution ID: 42

Type: **not specified**

Higgs EFT

Monday 20 January 2014 10:30 (25 minutes)

Presenter: GALLOWAY, Jamison (Rome La Sapienza)

Session Classification: Higgs Physics

Contribution ID: 43

Type: **not specified**

Measurements of Higgs boson couplings

Monday 20 January 2014 16:30 (25 minutes)

Presenter: Dr BIGLIETTI, Michela (INFN Roma Tre)

Session Classification: Higgs Physics

Contribution ID: 44

Type: **not specified**

Higgs spin parity determination

Monday 20 January 2014 16:55 (25 minutes)

Presenter: Mr ORTONA, Giacomo (Universita e INFN (IT))

Session Classification: Higgs Physics

Contribution ID: 45

Type: **not specified**

Search for exotic Higgs

Monday 20 January 2014 17:20 (25 minutes)

Presenter: GRIFFITHS, Justin (University of Texas at Arlington (US))

Session Classification: Higgs Physics

Contribution ID: 46

Type: **not specified**

Higgs flavor physics

Monday 20 January 2014 18:10 (25 minutes)

Presenter: HOCHBERG, Yonit (Weizmann Institute of Science)

Session Classification: Higgs Physics

Contribution ID: 47

Type: **not specified**

Experimental details of fermionic final states in Higgs decays

Monday 20 January 2014 18:35 (25 minutes)

Presenter: CONWAY, John (University of California Davis (US))

Session Classification: Higgs Physics

Contribution ID: 48

Type: **not specified**

Future prospects for Higgs measurements at LHC Run-2

Monday 20 January 2014 19:00 (25 minutes)

Presenter: KROHA, Hubert (Max-Planck-Institut fuer Physik (Werner-Heisenberg-Institut) (D))

Session Classification: Higgs Physics

Contribution ID: 49

Type: **not specified**

TBD

Tuesday 21 January 2014 09:40 (25 minutes)

Primary author: ZUREK, Kathryn (University of Michigan)

Presenter: ZUREK, Kathryn (University of Michigan)

Session Classification: Dark Matter

Contribution ID: 50

Type: **not specified**

Cosmic Ray Physics

Contribution ID: 51

Type: **not specified**

A Possible Dark Matter Signal in Gamma Rays from the Inner Galaxy

Tuesday 21 January 2014 08:00 (25 minutes)

Presenter: SLATYER, Tracy (Harvard University)

Session Classification: Astrophysics and Cosmology

Contribution ID: 52

Type: **not specified**

Gamma-ray dark matter searches

Tuesday 21 January 2014 08:25 (25 minutes)

Presenter: SIEGAL-GASKINS, Jennifer

Session Classification: Astrophysics and Cosmology

Contribution ID: 53

Type: **not specified**

HESS Results

Tuesday 21 January 2014 08:50 (25 minutes)

Presenter: DOMAINKO, Wilfried

Session Classification: Astrophysics and Cosmology

Contribution ID: 54

Type: **not specified**

Taking the Muon for a Spin

Sunday 19 January 2014 18:30 (25 minutes)

Presenter: GADFORT, Thomas (Brookhaven National Laboratory (US))

Session Classification: Electroweak Physics

Contribution ID: 55

Type: **not specified**

SolarAxion Searches with IAXO: The Dark Side of the Sun

Tuesday 21 January 2014 10:30 (25 minutes)

Presenter: VOGEL, Julia Katharina (CERN - PH/UGC)

Session Classification: Dark Matter

Contribution ID: 56

Type: **not specified**

Dark Mediator Dark Matter

Thursday 23 January 2014 10:05 (25 minutes)

Presenter: CURTIN, David (Cornell)

Session Classification: Astrophysics and Cosmology

Contribution ID: 57

Type: **not specified**

Dark matter or neutrino recoil: interpretation of recent experimental results

Wednesday 22 January 2014 10:15 (25 minutes)

Presenter: PRADLER, Josef (Perimeter Institute for Theoretical Physics)

Session Classification: Neutrinos

Contribution ID: 58

Type: **not specified**

Using the Razor to unravel difficult LHC signatures

Friday 24 January 2014 08:25 (25 minutes)

Presenter: BUCKLEY, Matthew (F)

Session Classification: SUSY and Exotica

Contribution ID: 59

Type: **not specified**

Forward Lepton- Photon-Jet Systems for SLHC Experiments

Friday 24 January 2014 08:00 (25 minutes)

Presenter: WINN, David (Fairfield University (US))

Session Classification: SUSY and Exotica

Contribution ID: **60**

Type: **not specified**

Light non-degenerate composite partners at the LHC

Friday 24 January 2014 08:50 (25 minutes)

Presenter: LEE, Seung (KAIST)

Session Classification: SUSY and Exotica

Contribution ID: 61

Type: **not specified**

Measuring CP violation in Higgs to $\tau^+ \tau^-$ at Colliders

Monday 20 January 2014 08:25 (25 minutes)

Presenter: PRIMULANDO, Reinard (Johns Hopkins University)

Session Classification: Higgs Physics

Contribution ID: 62

Type: **not specified**

Constraints on CP violating Higgs couplings

Monday 20 January 2014 08:00 (25 minutes)

Presenter: BROD, Joachim (TU Munich)

Session Classification: Higgs Physics

Contribution ID: 63

Type: **not specified**

Higgs Bosons: present and future

Monday 20 January 2014 08:50 (25 minutes)

Presenter: GUNION, Jack (University of California Davis (US))

Session Classification: Higgs Physics

Contribution ID: 64

Type: **not specified**

The Effect of Gravitational Focusing on Annual Modulation

Thursday 23 January 2014 10:30 (25 minutes)

Presenter: Ms LISANTI, Mariangela (Stanford University)

Session Classification: Astrophysics and Cosmology

Contribution ID: 65

Type: **not specified**

New Dark Matter Detectors using DNA for Nanometer Tracking

Presenter: FREESE, Katherine