

**Mitchell Workshop on  
Collider, Dark Matter and  
Neutrino Physics**

**Report of Contributions**

Contribution ID: 0

Type: **not specified**

# Physics at the LHC

*Monday 23 May 2016 09:00 (35 minutes)*

LHC Review

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

Contribution ID: 1

Type: **not specified**

# Search for the colored supersymmetric partners at CMS

*Monday 23 May 2016 09:35 (25 minutes)*

**Presenter:** CAMPAGNARI, Claudio (Univ. of California Santa Barbara (US))

Contribution ID: 2

Type: **not specified**

## **Search for the colored supersymmetric partners at ATLAS**

*Monday 23 May 2016 10:00 (25 minutes)*

**Presenter:** SHANG, Ruo-Yu (Univ. Illinois at Urbana-Champaign (US))

Contribution ID: 4

Type: **not specified**

## WIMP Searches with Noble Liquids

*Monday 23 May 2016 10:45 (25 minutes)*

### Summary

**Primary author:** NELSON, Harry (UCSB)

**Presenter:** NELSON, Harry (UCSB)

Contribution ID: 5

Type: **not specified**

## Matt Pyle

*Monday 23 May 2016 11:10 (25 minutes)*

### Summary

**Presenter:** PYLE, Matt

Contribution ID: 6

Type: **not specified**

## James Dent

*Monday 23 May 2016 11:35 (25 minutes)*

**Presenter:** DENT, James (University of Louisiana at Lafayette)

Contribution ID: 7

Type: **not specified**

## Dark Matter searches at CMS

*Monday 23 May 2016 14:00 (25 minutes)*

**Presenter:** LOWETTE, Steven (Vrije Universiteit Brussel (BE))



Contribution ID: 8

Type: **not specified**

## Dark Matter searches at ATLAS

*Monday 23 May 2016 14:25 (25 minutes)*

**Presenter:** GOZANI, Eitan (Technion (IL))

Contribution ID: 9

Type: **not specified**

## Ilia Gogoladze

*Monday 23 May 2016 14:50 (25 minutes)*

**Presenter:** GOGOLADZE, Ilia (University of Delaware)

Contribution ID: **10**

Type: **not specified**

## **An Anomaly to Believe In**

*Monday 23 May 2016 15:35 (35 minutes)*

**Primary author:** FENG, Jonathan Lee (University of California Irvine (US))

Contribution ID: **11**

Type: **not specified**

## **Andrew Pace**

*Monday 23 May 2016 16:10 (25 minutes)*

### **Summary**

**Primary author:** PACE, Andrew

**Presenter:** PACE, Andrew

Contribution ID: 12

Type: **not specified**

## The Self-Interacting Dark Matter Paradigm

*Monday 23 May 2016 16:35 (25 minutes)*

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

Contribution ID: **13**

Type: **not specified**

## Tianjun Li

Contribution ID: 14

Type: **not specified**

# MINER Coherent Neutrino Scattering with SuperCDMS Cryogenic Detector Technology

*Tuesday 24 May 2016 09:00 (35 minutes)*

## Summary

**Primary author:** MAHAPATRA, Rupak (Texas A&M University)

**Presenter:** MAHAPATRA, Rupak (Texas A&M University)

Contribution ID: 15

Type: **not specified**

## **COHERENT neutrino scattering at the SNS**

*Tuesday 24 May 2016 09:35 (25 minutes)*

### **Summary**

**Primary author:** BARBEAU, phil

**Presenter:** BARBEAU, phil



Contribution ID: 16

Type: **not specified**

## **Sensitivity to Z-prime, neutrino magnetic moment, and sterile neutrino oscillation from coherent neutrino-nucleus scattering**

*Tuesday 24 May 2016 10:00 (25 minutes)*

**Presenter:** WALKER, Joel Wesley (Texas A & M University (US))

Contribution ID: 17

Type: **not specified**

# **he Interpretation of 750 GeV Diphoton Excess at the LHC in the Supersymmetric Models**

*Tuesday 24 May 2016 10:45 (25 minutes)*

**Presenter:** LI, Tianjun

Contribution ID: **18**

Type: **not specified**

## **Distinguishing interactions in direct detection experiments**

*Tuesday 24 May 2016 11:10 (25 minutes)*

**Presenter:** NEWSTEAD, Jayden (Arizona State University)

Contribution ID: 19

Type: **not specified**

## Big-pions at the LHC

*Tuesday 24 May 2016 11:35 (25 minutes)*

**Presenter:** BAI, Yang (University of Wisconsin, Madison)

Contribution ID: 20

Type: **not specified**

## **Probing the Electroweak Phase Transition at the LHC and future colliders**

*Tuesday 24 May 2016 14:00 (25 minutes)*

**Presenter:** HUANG, Peisi

Contribution ID: 21

Type: **not specified**

## **Backgrounds @ MINER**

*Tuesday 24 May 2016 14:25 (25 minutes)*

### **Summary**

**Primary author:** KUBIK, Andrew Michael (Texas A&M University (US))

**Presenter:** KUBIK, Andrew Michael (Texas A&M University (US))

Contribution ID: 22

Type: **not specified**

## **The 750 GeV Diphoton Excesses in Realistic String Models**

**Presenter:** MAYES, Eric (University of Houston-Clear Lake)

Contribution ID: 23

Type: **not specified**

## **Measurements of the Higgs boson properties at CMS**

*Tuesday 24 May 2016 15:10 (25 minutes)*

**Presenter:** GRITSAN, Andrei (Johns Hopkins University (US))



Contribution ID: 24

Type: **not specified**

# Measurements of the Higgs boson properties at ATLAS

*Tuesday 24 May 2016 15:35 (25 minutes)*

## Summary

**Primary author:** KONOPLICH, Rostislav (New York University (US))

**Presenter:** KONOPLICH, Rostislav (New York University (US))

Contribution ID: 25

Type: **not specified**

## Search for the BSM Higgs at CMS

*Tuesday 24 May 2016 16:00 (25 minutes)*

**Presenter:** Dr PERNIE, Luca (Texas A&M University)

Contribution ID: 26

Type: **not specified**

## Search for the BSM Higgs at ATLAS

*Tuesday 24 May 2016 16:25 (25 minutes)*

**Presenter:** HAUSWALD, Lorenz (Technische Universitaet Dresden (DE))

Contribution ID: 27

Type: **not specified**

## Matthew Wood [Fermi]

*Wednesday 25 May 2016 09:00 (35 minutes)*

### Summary

**Presenter:** WOOD, Matthew

Contribution ID: 28

Type: **not specified**

## Recent Results from the Daya Bay Reactor Neutrino Experiment

*Wednesday 25 May 2016 09:35 (25 minutes)*

### Summary

**Primary author:** LIN, Cheng-Ju Stephen (Lawrence Berkeley National Lab. (US))

**Presenter:** LIN, Cheng-Ju Stephen (Lawrence Berkeley National Lab. (US))

Contribution ID: 29

Type: **not specified**

## **Lisa Everett**

*Wednesday 25 May 2016 10:00 (25 minutes)*

### **Summary**

**Presenter:** EVERETT, Lisa (University of Wisconsin, Madison)

Contribution ID: **30**

Type: **not specified**

## **Search for non-colored supersymmetric partners at ATLAS**

*Wednesday 25 May 2016 10:45 (25 minutes)*

### **Summary**

**Presenters:** GRAMSTAD, Eirik (Student); GRAMSTAD, Eirik (University of Oslo (NO))

Contribution ID: **31**

Type: **not specified**

## **Search for non-colored supersymmetric partners at CMS**

*Wednesday 25 May 2016 11:10 (25 minutes)*

**Presenter:** GURROLA, Alfredo (Vanderbilt University (US))



Contribution ID: 32

Type: **not specified**

## Exotica searches at ATLAS

*Wednesday 25 May 2016 11:35 (25 minutes)*

### Summary

**Presenters:** BLACK, Kevin (Boston University (US)); BLACK, Kevin (Boston University)

Contribution ID: 33

Type: **not specified**

## Exotica searches at CMS

*Wednesday 25 May 2016 12:00 (25 minutes)*

**Presenter:** LEE, Sung Won (Texas Tech University (US))

Contribution ID: 34

Type: **not specified**

## **Late Reheating, Baryogenesis and Dark Matter: An Explicit Model**

*Wednesday 25 May 2016 14:25 (25 minutes)*

**Presenter:** ALLAHVERDI, Rouzbeh (New Mexico University)

Contribution ID: 35

Type: **not specified**

## **Primordial Black Holes, Dark Matter, and the Post-Inflationary Universe**

*Wednesday 25 May 2016 14:50 (25 minutes)*

**Presenter:** WATSON, Scott (Syracuse University)

Contribution ID: **36**

Type: **not specified**

## **Ilia Gogoladze**

Contribution ID: 37

Type: **not specified**

## **Improving mass measurements with many body phase space**

*Wednesday 25 May 2016 15:35 (25 minutes)*

**Presenter:** KILIC, Can (University of Texas at Austin)

Contribution ID: **38**

Type: **not specified**

## **Disformal Dark D-brane Cosmology**

*Wednesday 25 May 2016 16:00 (25 minutes)*

**Presenter:** ZAVALA, Ivonne (Swansea University)

Contribution ID: **39**

Type: **not specified**

## [LUX review]

*Thursday 26 May 2016 09:00 (35 minutes)*

**Presenter:** MANNINO, Rachel (Texas A&M University)



Contribution ID: 40

Type: **not specified**

## Latest result of the Alpha Magnetic Spectrometer

*Thursday 26 May 2016 09:35 (25 minutes)*

### Summary

**Primary author:** ZUCCON, Paolo (Massachusetts Inst. of Technology (US))

**Presenter:** ZUCCON, Paolo (Massachusetts Inst. of Technology (US))

Contribution ID: **41**

Type: **not specified**

**[NIMOS]**

Contribution ID: 42

Type: **not specified**

## Dark matter velocity spectroscopy

*Thursday 26 May 2016 11:10 (25 minutes)*

**Primary author:** LAHA, Ranjan (Stanford University)

Contribution ID: 43

Type: **not specified**

## **Dark Matter Interpreting Cosmic Ray Excesses the "Energy-peak" Way**

*Thursday 26 May 2016 11:35 (25 minutes)*

**Presenter:** KIM, Doojin (University of Florida)

Contribution ID: 44

Type: **not specified**

## Chris Kelso

*Thursday 26 May 2016 12:00 (25 minutes)*

**Presenter:** KELSO, Chris (University of Utah)

Contribution ID: 45

Type: **not specified**

## Keith Dienes

Contribution ID: 46

Type: **not specified**

## Natural Realizations of Dynamical Dark Matter

*Thursday 26 May 2016 14:25 (25 minutes)*

**Presenter:** Prof. THOMAS, Brooks (Colorado College)

Contribution ID: 47

Type: **not specified**

## **Status of the 98-125 GeV Higgs scenario with updated LHC-8 data**

*Thursday 26 May 2016 10:00 (25 minutes)*

**Primary author:** GHOSH, DILIP KUMAR (INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE)



Contribution ID: 48

Type: **not specified**

# **An indirect constraint of Primordial Black Holes from PLANCK**

*Thursday 26 May 2016 14:50 (25 minutes)*

## **Summary**

**Presenter:** GAO, Yu (U)

Contribution ID: 49

Type: **not specified**

## **SU(6) Origin of Vector-like Fermions and LHC Di-photon Excess**

*Wednesday 25 May 2016 16:25 (25 minutes)*

**Presenter:** GHOSH, Tathagata (Texas A&M University)

Contribution ID: 50

Type: **not specified**

## **The 750 GeV Diphoton excess: what can it be?**

*Thursday 26 May 2016 15:15 (25 minutes)*

### **Summary**

**Presenter:** DALCHENKO, Mykhailo (Texas A & M University (US))