

New Physics Interpretations at the LHC

MICHIGAN STATE UNIVERSITY | Department of Physics and Astronomy



Report of Contributions

Contribution ID: **0**

Type: **not specified**

Dinner

Monday 2 May 2016 18:00 (3 hours)

<https://sites.google.com/site/npinterpretations/dinner>

Summary

Contribution ID: 1

Type: **not specified**

Welcome to Argonne

Monday 2 May 2016 09:01 (4 minutes)

Author: WEERTS, Harry (Argonne National Laboratory (US))

Contribution ID: 2

Type: **not specified**

Two-photon results from ATLAS

Monday 2 May 2016 09:40 (20 minutes)

Author: SAXON, James (University of Chicago (US))

Contribution ID: 3

Type: **not specified**

Two-photon results from CMS

Monday 2 May 2016 10:10 (20 minutes)

Author: CHOU, John Paul (Rutgers, State Univ. of New Jersey (US))

Contribution ID: 4

Type: **not specified**

Diphotons from an Electroweak Triplet-Singlet

Monday 2 May 2016 09:10 (20 minutes)

Authors: KNAPEN, Simon; KNAPEN, Simon (Lawrence Berkeley National Lab)

Contribution ID: 5

Type: **not specified**

Diphoton excess: 750 GeV scalar or the kitchen sink?

Monday 2 May 2016 11:15 (20 minutes)

Author: MEADE, Patrick (Stony Brook University)

Contribution ID: 6

Type: **not specified**

The Blind Men and an Elephant: an Alternative Interpretation for the Diphoton 750 GeV Excess

Monday 2 May 2016 11:45 (20 minutes)

Author: KIM, Doojin (University of Florida)

Contribution ID: 7

Type: **not specified**

Searches for dibosons involving Higgs at CMS

Monday 2 May 2016 15:00 (20 minutes)

Author: VERNIERI, Caterina (Fermi National Accelerator Lab. (US))

Contribution ID: **8**

Type: **not specified**

ATLAS results on two-boson resonances

Monday 2 May 2016 14:30 (20 minutes)

Author: ABOUZEID, Hass (University of California,Santa Cruz (US))

Contribution ID: 9

Type: **not specified**

ATLAS results on two-boson resonances with Higgs

Monday 2 May 2016 15:50 (20 minutes)

Author: YU, Jie (Iowa State University (US))

Contribution ID: **10**

Type: **not specified**

Lepton Flavor Violating Higgs decays

Tuesday 3 May 2016 16:20 (20 minutes)

Authors: DELGADO, Antonio (University of Notre Dame (US)); DELGADO, Antonio (University of Notre Dame)

Contribution ID: 11

Type: **not specified**

$Z' \rightarrow \ell\ell$ and combinations. ATLAS results

Tuesday 3 May 2016 09:01 (20 minutes)

Author: HAYDEN, Daniel (Michigan State University (US))

Contribution ID: 12

Type: **not specified**

Searches for dijet-, multijet-, and b-jet resonances. ATLAS results

Tuesday 3 May 2016 10:00 (20 minutes)

Author: DANDOY, Jeff (University of Chicago (US))

Contribution ID: 13

Type: **not specified**

New physics in multijet final states with CMS

Tuesday 3 May 2016 09:30 (20 minutes)

Author: STROBBE, Nadja (Fermi National Accelerator Lab. (US))

Contribution ID: 14

Type: **not specified**

Enhancing the Higgs associated production with a top quark pair

Tuesday 3 May 2016 11:50 (20 minutes)

Presenters: BADZIAK, Marcin; BADZIAK, Marcin

Contribution ID: 15

Type: **not specified**

Interpretations for the $t\bar{t}h$ excess without an enhanced $t\bar{t}h$

Tuesday 3 May 2016 11:20 (20 minutes)

Authors: HUANG, Peisi (University of Wisconsin-Madison (US)); HUANG, Peisi

Contribution ID: 16

Type: **not specified**

Searching for Supersymmetry with Z bosons and missing ET

Tuesday 3 May 2016 14:00 (20 minutes)

Presenter: HOLMES, Tova Ray (Lawrence Berkeley National Lab. (US))

Contribution ID: 17

Type: **not specified**

Direct Measurements of the top-Yukawa Coupling at the LHC and other Related Results

Tuesday 3 May 2016 14:30 (20 minutes)

Author: WEBSTER, Jordan S (Argonne National Laboratory (US))

Contribution ID: **18**

Type: **not specified**

Generic model interpretations. Theory

Author: SIMMONS, Elizabeth (Michigan State University)

Contribution ID: 19

Type: **not specified**

Searches for BSM in multi-lepton events. CMS results

Tuesday 3 May 2016 10:50 (20 minutes)

Author: CASTELLO, Roberto (CERN)

Presenter: CASTELLO, Roberto (CERN)

Contribution ID: **20**

Type: **not specified**

Vector-like quarks searches at CMS

Tuesday 3 May 2016 15:00 (20 minutes)

Author: KHALIL, Sadia (Kansas State University (US))

Presenter: KHALIL, Sadia (Kansas State University (US))

Contribution ID: 21

Type: **not specified**

A theory talk

Presenters: FARINA, Marco (Cornell University); FARINA, Marco (Sezione di Pisa (IT))

Contribution ID: 22

Type: **not specified**

New displaced signatures and strategies at the LHC

Wednesday 4 May 2016 11:50 (20 minutes)

Presenters: SHELTON, Jessie (Yale University); SHELTON, Julia (Jessie) (Rutgers University); Dr SHELTON, Julia

Contribution ID: 23

Type: **not specified**

A 750 GeV Heavy Pion and its Companions

Tuesday 3 May 2016 16:50 (20 minutes)

Presenters: BAI, Yang (University of Wisconsin, Madison); BAI, yang

Contribution ID: 24

Type: **not specified**

Searches for two vector bosons at CMS

Monday 2 May 2016 14:05 (20 minutes)

Presenters: XU, Zijun (Peking University (CN)); XU, Zijun (Peking University (CN))

Contribution ID: 25

Type: **not specified**

Generic interpretation considerations across search channels

Tuesday 3 May 2016 15:50 (20 minutes)

Presenter: KAADZE, Keti (Kansas State University (US))

Contribution ID: 26

Type: **not specified**

Right-handed neutrinos and $\ell\ell j$ searches in Run I

Monday 2 May 2016 16:20 (20 minutes)

Presenters: COLOMA, Pilar (Universidad Autónoma de Madrid); COLOMA, Pilar (Virginia Tech University); COLOMA, Pilar (Fermilab)

Contribution ID: 27

Type: **not specified**

Diboson Excess Theory Updates

Monday 2 May 2016 16:50 (20 minutes)

Presenters: LIU, Zhen (Fermilab); LIU, Zhen (University of Pittsburgh)

Contribution ID: **28**

Type: **not specified**

Strong $t\bar{W}$ Scattering at the LHC

Wednesday 4 May 2016 10:50 (20 minutes)

Presenters: FARINA, Marco (Cornell University); FARINA, Marco (Sezione di Pisa (IT))

Contribution ID: 29

Type: **not specified**

The F particle

Wednesday 4 May 2016 10:00 (20 minutes)

Presenter: TESI, Andrea

Contribution ID: **30**

Type: **not specified**

diphotons TBD

Presenter: MOHAN, Kirtimaan (Michigan State University)

Contribution ID: **31**

Type: **not specified**

Z + MET in supersymmetry

Wednesday 4 May 2016 14:00 (20 minutes)

Presenter: ISMAIL, Ahmed (Argonne National Laboratory/University of Illinois at Chicago)

Contribution ID: **32**

Type: **not specified**

Stop searches in the compressed region

Wednesday 4 May 2016 14:30 (20 minutes)

Presenter: CHENG, Hsin-Chia (University of California, Davis)

Contribution ID: 33

Type: **not specified**

Roman or Greek? Distinguishing gg from $\gamma\gamma$ $\gamma\gamma$ Fusion

Wednesday 4 May 2016 09:01 (20 minutes)

Presenter: ISAACSON, Joshua (Michigan State University)

Contribution ID: 34

Type: **not specified**

Soft Gluon Resummation in Higgs Plus Jets Production at the LHC

Wednesday 4 May 2016 09:30 (20 minutes)

Presenters: SUN, peng (MSU); SUN, peng (LBNL)

Contribution ID: 35

Type: **not specified**

Searching for the QCD Axion at Advanced LIGO with Black Holes and Gravitational Waves

Wednesday 4 May 2016 15:15 (45 minutes)

<https://indico.hep.anl.gov/indico/conferenceDisplay.py?confId=609>

Summary

Presenters: BARYAKHTAR, Maria I (Stanford University (US)); BARYAKHTAR, Masha (Perimeter Institute)

Contribution ID: 36

Type: **not specified**

Tadpole-Induced Electroweak Symmetry Breaking and pNGB Higgs Models

Wednesday 4 May 2016 11:20 (20 minutes)

Presenters: KEARNEY, Jack (H); KEARNEY, John (University of Michigan (US))

Contribution ID: 37

Type: **not specified**

Welcome to the ANL HEP division

Monday 2 May 2016 09:05 (5 minutes)

Presenter: DEMARTEAU, Marcel (Argonne National Laboratory)