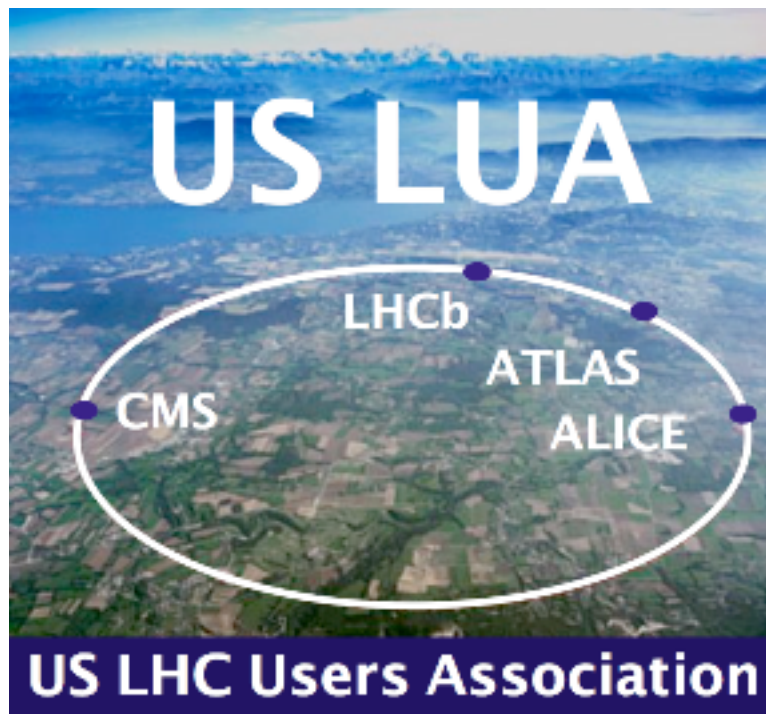


# US LHC Users Association Annual Meeting



## Report of Contributions

Contribution ID: 0

Type: **not specified**

## Executive Committee Meeting

*Wednesday, 12 November 2014 17:00 (1 hour)*

**Presenter:** NEWMAN, Harvey (Caltech)

Contribution ID: **1**

Type: **not specified**

## Welcome Reception

*Wednesday, 12 November 2014 18:00 (1h 30m)*

Contribution ID: 2

Type: **not specified**

## Welcome to Argonne

*Thursday, 13 November 2014 09:00 (10 minutes)*

**Presenter:** YOSHIDA, Rik (ANL)

**Session Classification:** Session 1 Building 240

Contribution ID: 3

Type: **not specified**

## US LUA Chair's Report

*Thursday, 13 November 2014 09:10 (30 minutes)*

**Presenter:** NEWMAN, Harvey (Caltech)

**Session Classification:** Session 1 Building 240

Contribution ID: 4

Type: **not specified**

## LARP

*Thursday, 13 November 2014 10:10 (25 minutes)*

**Presenter:** Dr PREBYS, Eric (Fermilab)

**Session Classification:** Session 1 Building 240

Contribution ID: 5

Type: **not specified**

## Status and Outlook of the LHC

*Thursday, 13 November 2014 09:40 (30 minutes)*

**Presenter:** Dr PAPOTTI, Giulia (CERN)

**Session Classification:** Session 1 Building 240

Contribution ID: 6

Type: **not specified**

# ATLAS Highlights and Outlook

*Thursday, 13 November 2014 11:00 (30 minutes)*

**Presenter:** Prof. BROCK, Raymond (Michigan State University)

**Session Classification:** Session 2 Building 240



Contribution ID: 7

Type: **not specified**

## CMS Highlights and Outlook

*Thursday, 13 November 2014 11:30 (30 minutes)*

**Presenter:** Dr CAMPORESI, Tiziano (CERN)

**Session Classification:** Session 2 Building 240

Contribution ID: 8

Type: **not specified**

## LHCb Highlights and Upgrades

*Thursday, 13 November 2014 12:00 (30 minutes)*

**Presenter:** SOKOLOFF, Mike (Cincinnati)

**Session Classification:** Session 2 Building 240

Contribution ID: 9

Type: **not specified**

## ALICE Highlights and Upgrades

*Thursday, 13 November 2014 13:45 (30 minutes)*

**Presenter:** Dr JACOBS, Peter (Lawrence Berkeley National Laboratory)

**Session Classification:** Session 3 Building 362

Contribution ID: **10**

Type: **not specified**

## **CMS Upgrade Program**

*Thursday, 13 November 2014 14:15 (25 minutes)*

**Presenter:** MANS, Jeremiah (University of Minnesota)

**Session Classification:** Session 3 Building 362

Contribution ID: **11**

Type: **not specified**

## ATLAS Upgrade Program

*Thursday, 13 November 2014 14:40 (25 minutes)*

**Presenter:** CANEPA, Anadi (TRIUMF)

**Session Classification:** Session 3 Building 362

Contribution ID: 12

Type: **not specified**

## Young Physicists' Lightning Round 1

**Presenter:** BLOOM, Ken (University of Nebraska-Lincoln)

Contribution ID: **13**

Type: **not specified**

## Supporting Young Physicists

*Thursday, 13 November 2014 16:25 (25 minutes)*

**Presenter:** Dr MALLIK, Usha (The University of Iowa)

**Session Classification:** Session 4 Building 362

Contribution ID: **14**

Type: **not specified**

## DOE Office of HEP Report

*Thursday, 13 November 2014 16:50 (25 minutes)*

**Presenter:** Dr PATWA, Abid (U.S. Department of Energy)

**Session Classification:** Session 4 Building 362



Contribution ID: **15**

Type: **not specified**

## NSF EPP Office Report

*Thursday, 13 November 2014 17:15 (25 minutes)*

**Presenter:** Prof. SHANK, James (NSF)

**Session Classification:** Session 4 Building 362

Contribution ID: **16**

Type: **not specified**

## DOE Office of NP Report

*Thursday, 13 November 2014 17:40 (25 minutes)*

**Presenter:** Dr SOWINSKI, James (DOE Office of Nuclear Physics)

**Session Classification:** Session 4 Building 362

Contribution ID: 17

Type: **not specified**

## The Dark Matter and Higgs Sectors

*Thursday, 13 November 2014 18:05 (40 minutes)*

**Presenter:** FAN, JiJi (Syracuse)

**Session Classification:** Session 5 Building 362

Contribution ID: **18**

Type: **not specified**

## **Introduction; 2014 Trip to Washington**

*Friday, 14 November 2014 08:30 (20 minutes)*

**Presenter:** NEWMAN, Harvey (Caltech)

**Session Classification:** Session 1 Building 362

Contribution ID: **19**

Type: **not specified**

## **US - CERN Relations and the LHC Program**

*Friday, 14 November 2014 08:50 (20 minutes)*

**Presenter:** Dr VOSS, Ruediger (CERN)

**Session Classification:** Session 1 Building 362

Contribution ID: **20**

Type: **not specified**

## US LUEC Committee Reports

*Friday, 14 November 2014 10:45 (30 minutes)*

Presented via Vidyo

**Presenter:** COMMITTEE CHAIRS

**Session Classification:** Session 2 Building 362

Contribution ID: **21**

Type: **not specified**

## **Advisory Committee of CERN Users**

*Friday, 14 November 2014 11:15 (20 minutes)*

**Presenter:** Prof. DASU, Sridhara (University of Wisconsin)

**Session Classification:** Session 2 Building 362

Contribution ID: 22

Type: **not specified**

## HEP and the View from OSTP



Contribution ID: 23

Type: **not specified**

## Outlook Following the P5 Report

**Presenter:** LANKFORD, Andrew (UC Irvine)

Contribution ID: 24

Type: **not specified**

## US HEP Program Outlook

*Friday, 14 November 2014 15:45 (40 minutes)*

**Presenter:** Dr LYKKEN, Joseph (Fermilab)

**Session Classification:** Session 2 Building 362

Contribution ID: 25

Type: **not specified**

## Lightning Round Winners Announcement

*Friday, 14 November 2014 16:25 (10 minutes)*

**Presenter:** BLOOM, Ken (University of Nebraska-Lincoln)

**Session Classification:** Session 2 Building 362

Contribution ID: 26

Type: **not specified**

## Discussion; AOB

*Friday, 14 November 2014 16:35 (45 minutes)*

**Session Classification:** Session 2 Building 362

Contribution ID: 27

Type: **not specified**

## Adjourn

*Friday, 14 November 2014 17:20 (10 minutes)*

Contribution ID: 28

Type: **not specified**

## **Search for resonant production of two Higgs bosons in the two photon two b-quark final state**

*Friday, 14 November 2014 09:10 (12 minutes)*

**Presenter:** HEBDA, Philip

**Session Classification:** Young Physicists' Lightning Round Session 2 Building 362

Contribution ID: 29

Type: **not specified**

## **Evidence of Electroweak Vector Boson Scattering in the same-sign WW channel in ATLAS**

*Friday, 14 November 2014 09:22 (12 minutes)*

**Presenter:** METCALFE, Jessica

**Session Classification:** Young Physicists' Lightning Round Session 2 Building 362

Contribution ID: **30**

Type: **not specified**

## **Search for Higgs production in association with single top quarks**

*Friday, 14 November 2014 09:34 (12 minutes)*

**Presenter:** KNOWLTON, Daniel

**Session Classification:** Young Physicists' Lightning Round Session 2 Building 362



Contribution ID: **31**

Type: **not specified**

## The UT Detector for the LHCb Upgrade

*Friday, 14 November 2014 09:46 (12 minutes)*

**Presenter:** KELSEY, Matthew

**Session Classification:** Young Physicists' Lightning Round Session 2 Building 362

Contribution ID: 32

Type: **not specified**

## **Measurement of differential $t\bar{t}$ cross section for boosted tops at 8 TeV using CMS data**

*Friday, 14 November 2014 09:58 (12 minutes)*

**Presenter:** DITTMER, Susan

**Session Classification:** Young Physicists' Lightning Round Session 2 Building 362

Contribution ID: 33

Type: **not specified**

## Search for electroweak SUSY production

*Friday, 14 November 2014 11:35 (12 minutes)*

**Presenter:** OLIVITO, Dominick

**Session Classification:** Young Physicists' Lightning Round Session 3 Building 362

Contribution ID: 34

Type: **not specified**

## Jet Reclustering in 0-lepton Direct Stop Search

*Friday, 14 November 2014 11:47 (12 minutes)*

**Presenter:** WANOTAYOROJ, Chaowaroj

**Session Classification:** Young Physicists' Lightning Round Session 3 Building 362

Contribution ID: 35

Type: **not specified**

## **Search for stealth supersymmetry with photons or leptons, jets, and low MET**

*Friday, 14 November 2014 11:59 (12 minutes)*

**Presenter:** WEINBERG, Marc

**Session Classification:** Young Physicists' Lightning Round Session 3 Building 362

Contribution ID: 36

Type: **not specified**

## Latest Jet Results from ALICE

*Friday, 14 November 2014 12:11 (12 minutes)*

**Presenter:** CONNORS, Megan

**Session Classification:** Young Physicists' Lightning Round Session 3 Building 362

Contribution ID: 37

Type: **not specified**

## **Search for resonant production of two Higgs bosons in the four b-quark final state**

*Friday, 14 November 2014 12:23 (12 minutes)*

**Presenter:** DAS, Souvik

**Session Classification:** Young Physicists' Lightning Round Session 3 Building 362

Contribution ID: 38

Type: **not specified**

## **Search for non-pointing and delayed photons in the diphoton and missing transverse momentum final state in 8 TeV pp collisions**

**Presenter:** HARD, Andrew



Contribution ID: 39

Type: **not specified**

## **Search for non-pointing and delayed photons in the diphoton and missing transverse momentum final state in 8 TeV pp collisions**

*Friday, 14 November 2014 10:10 (12 minutes)*

**Presenter:** HARD, Andrew

**Session Classification:** Young Physicists' Lightning Round Session 2 Building 362

Contribution ID: 40

Type: **not specified**

## **Observation and measurement of Higgs boson decays to $WW^*$ with ATLAS at the LHC**

*Thursday, 13 November 2014 15:05 (12 minutes)*

**Presenter:** CHANG, Philip

**Session Classification:** Young Physicists Lightning Round 1 Building 362

Contribution ID: 41

Type: **not specified**

## Physics Beyond Higgs: Searches for Extra Vector-Like Quarks at CMS

*Thursday, 13 November 2014 15:17 (12 minutes)*

**Presenter:** KHALIL, Sadia

**Session Classification:** Young Physicists Lightning Round 1 Building 362

Contribution ID: 42

Type: **not specified**

## **Mass measurement of the Higgs boson in the $H \rightarrow ZZ^* \rightarrow 4l$ channel at the ATLAS detector**

*Thursday, 13 November 2014 15:29 (12 minutes)*

**Presenter:** KAPLAN, Laser

**Session Classification:** Young Physicists Lightning Round 1 Building 362

Contribution ID: 43

Type: **not specified**

## Results in B\_c physics at LHCb

*Thursday, 13 November 2014 15:41 (12 minutes)*

**Presenter:** JURIK, Nathan

**Session Classification:** Young Physicists Lightning Round 1 Building 362

Contribution ID: 44

Type: **not specified**

## **A Search for Prompt Lepton-Jets in p-p Collisions at $\sqrt{s} = 8$ TeV with the ATLAS Detector**

*Thursday, 13 November 2014 15:53 (12 minutes)*

**Presenter:** NAMASIVAYAM, Harisankar

**Session Classification:** Young Physicists Lightning Round 1 Building 362

Contribution ID: 45

Type: **not specified**

## **Search for $W' \rightarrow tb \rightarrow qqbb$ Decays with the ATLAS Detector**

*Friday, 14 November 2014 13:45 (12 minutes)*

**Presenter:** LI, Ho Ling

**Session Classification:** Young Physicists' Lightning Round Session 4 Building 362

Contribution ID: 46

Type: **not specified**

## **Properties of a Higgs Boson in the $H \rightarrow ZZ \rightarrow 4l$ Channel at CMS**

*Friday, 14 November 2014 13:57 (12 minutes)*

**Presenter:** BELKNAP, Austin

**Session Classification:** Young Physicists' Lightning Round Session 4 Building 362



Contribution ID: 47

Type: **not specified**

## **Search for Higgs bosons pair production at the LHC using $hh \rightarrow \tau\tau b\bar{b}$ channel**

*Friday, 14 November 2014 14:09 (12 minutes)*

**Presenter:** SAHA, Puja

**Session Classification:** Young Physicists' Lightning Round Session 4 Building 362

Contribution ID: 48

Type: **not specified**

## UPC Physics at ALICE

*Friday, 14 November 2014 14:21 (12 minutes)*

**Presenter:** GRUBERG, Barak

**Session Classification:** Young Physicists' Lightning Round Session 4 Building 362

Contribution ID: 49

Type: **not specified**

## **The Global Feature Extraction (gFEX) module and its Physics Impact**

*Friday, 14 November 2014 14:33 (12 minutes)*

**Presenter:** STARK, Giordon

**Session Classification:** Young Physicists' Lightning Round Session 4 Building 362

Contribution ID: 50

Type: **not specified**

## The CMS L1 Track Trigger at the HL-LHC

*Friday, 14 November 2014 14:45 (12 minutes)*

**Presenter:** TROVATO, Marco

**Session Classification:** Young Physicists' Lightning Round Session 4 Building 362

Contribution ID: 51

Type: **not specified**

## **Search for 4th generation Vector Like Quarks that decays to a Z boson and 3rd generation quark in pp collisions at $\sqrt{s}=8\text{TeV}$ with the ATLAS detector**

*Friday, 14 November 2014 14:57 (12 minutes)*

**Presenter:** SCHOENROCK, Brad

**Session Classification:** Young Physicists' Lightning Round Session 4 Building 362

Contribution ID: 52

Type: **not specified**

## Search for second generation leptoquarks

*Friday, 14 November 2014 15:09 (12 minutes)*

**Presenter:** SAINI, Lovedeep

**Session Classification:** Young Physicists' Lightning Round Session 4 Building 362