

2017 US LHC Users Association Meeting



Report of Contributions

Contribution ID: **28**

Type: **not specified**

US LUEC Committee Reports (Committee Chairs)

Friday, November 3, 2017 1:40 PM (50 minutes)

Contribution ID: 29

Type: **not specified**

P5 Plan: Progress and Visibility

Presenter: Prof. RITZ, Steve (UCSC and SCIPP)

Contribution ID: **30**

Type: **not specified**

Lightning Round Winners Announcement

Friday, November 3, 2017 4:50 PM (15 minutes)

Contribution ID: **31**

Type: **not specified**

Q&A and Discussion of US LHC Community Issues and US LUA

Friday, November 3, 2017 4:10 PM (40 minutes)

Contribution ID: **32**

Type: **not specified**

US HEP Program and Outlook

Presenter: LOCKYER, Nigel (Fermilab)

Contribution ID: **33**

Type: **not specified**

US LUA Chair's Report

Thursday, November 2, 2017 9:20 AM (25 minutes)

Presenter: NEWMAN, Harvey (Caltech)

Contribution ID: **34**

Type: **not specified**

Welcome to Fermilab

Thursday, November 2, 2017 9:00 AM (10 minutes)

Presenter: LOCKYER, Nigel (Fermilab)

Contribution ID: 35

Type: **not specified**

LARP Report

Thursday, November 2, 2017 10:35 AM (25 minutes)

Presenter: Dr APOLLINARI, Giorgio (Fermilab)

Contribution ID: **36**

Type: **not specified**

Status and Outlook of the LHC

Thursday, November 2, 2017 9:45 AM (30 minutes)

Presenter: STEERENBERG, Rende (CERN)

Contribution ID: 37

Type: **not specified**

CMS Status and Outlook

Thursday, November 2, 2017 11:25 AM (25 minutes)

Presenter: CARLIN, Roberto (Padova)

Contribution ID: **38**

Type: **not specified**

ATLAS Status and Outlook

Thursday, November 2, 2017 11:00 AM (25 minutes)

Presenter: HOECKER, Andreas (CERN)

Contribution ID: 39

Type: **not specified**

ALICE Status and Run2 Results

Thursday, November 2, 2017 1:20 PM (30 minutes)

Presenter: CUNQUEIRO MENDEZ, Leticia (Oak Ridge National Laboratory)

Contribution ID: 40

Type: **not specified**

LHCb Status and Outlook

Thursday, November 2, 2017 11:50 AM (25 minutes)

Presenter: JAWAHERY, Hassan (Maryland)

Contribution ID: 41

Type: **not specified**

ATLAS Run2 Results

Thursday, November 2, 2017 3:10 PM (20 minutes)

Presenter: MILLER, David (University of Chicago)

Contribution ID: 42

Type: **not specified**

CMS Run2 Results

Thursday, November 2, 2017 2:50 PM (20 minutes)

Presenter: PASTIKA, Nathaniel (Baylor University)

Contribution ID: 43

Type: **not specified**

DOE Office of HEP Report

Thursday, November 2, 2017 4:35 PM (25 minutes)

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

Contribution ID: 44

Type: **not specified**

Supporting Young Physicists

Friday, November 3, 2017 11:20 AM (20 minutes)

Presenter: Prof. MALLIK, Usha (The University of Iowa)

Contribution ID: 45

Type: **not specified**

DOE Office of NP Report

Thursday, November 2, 2017 5:00 PM (25 minutes)

Presenter: HALLMAN, Timothy (DOE/NP)

Contribution ID: 46

Type: **not specified**

Introduction

Friday, November 3, 2017 8:30 AM (10 minutes)

Presenter: NEWMAN, Harvey (Caltech)

Contribution ID: 47

Type: **not specified**

Careers Session (Panel, Q&A)

Thursday, November 2, 2017 5:30 PM (1h 30m)

Presenter: NATTRASS, Christine (Tennessee)

Contribution ID: **48**

Type: **not specified**

CERN and US LUA

Friday, November 3, 2017 8:40 AM (20 minutes)

Presenter: WARAKAULLE, Charlotte (CERN)

Contribution ID: 49

Type: **not specified**

Advisory Committee of CERN Users

Presenter: TORRENCE, Eric (University of Oregon)

Contribution ID: **50**

Type: **not specified**

Meeting Logistics

Thursday, November 2, 2017 9:10 AM (10 minutes)

Presenters: KLIMA, Boaz (Fermilab); Prof. GERBER, Cecilia (UIC)

Contribution ID: 51

Type: **not specified**

LHCb Run 2 Results

Thursday, November 2, 2017 3:30 PM (20 minutes)

Presenter: Prof. STONE, Sheldon (Syracuse University)

Contribution ID: 52

Type: **not specified**

NSF Office of EPP Report

Presenter: TBC

Contribution ID: 53

Type: **not specified**

APS and US LUA

Friday, November 3, 2017 9:30 AM (20 minutes)

Presenter: Ms GONSKI, Julia (Harvard University)

Contribution ID: 54

Type: **not specified**

Physics at Future Colliders

Thursday, November 2, 2017 4:10 PM (25 minutes)

Presenter: BORRAS, Kerstin (DESY/RWTH Aachen)

Contribution ID: 55

Type: **not specified**

Search for vector-like T quarks with oppositely-charged dilepton pairs and jets in proton-proton collisions at 13 TeV

Thursday, November 2, 2017 1:50 PM (10 minutes)

Presenter: MENDIS, Dalath (Kansas State Univ)

Session Classification: Young Physicists' Lightning Round Session 1

Contribution ID: 56

Type: **not specified**

Hollow electron beam collimation for HL-LHC

Thursday, November 2, 2017 2:00 PM (10 minutes)

Presenter: FITTERER, Miriam (FNAL)

Session Classification: Young Physicists' Lightning Round Session 1

Contribution ID: 57

Type: **not specified**

BSM Searches with 2-Leptons & ATLAS Muon Spectrometer Upgrades

Friday, November 3, 2017 12:20 PM (10 minutes)

Presenter: ANTRIM, Daniel (UC Irvine)

Session Classification: Young Physicists' Lightning Round Session 3

Contribution ID: 58

Type: **not specified**

Multiplicity evolution of identified particle charge-dependent correlations in Pb-Pb, p-Pb and pp collisions at the LHC with ALICE

Thursday, November 2, 2017 2:20 PM (10 minutes)

Presenter: PAN, Jinjin (Wayne State University)

Session Classification: Young Physicists' Lightning Round Session 1

Contribution ID: 59

Type: **not specified**

The High Granularity Calorimeter for HL-LHC Upgrade

Thursday, November 2, 2017 2:30 PM (10 minutes)

Presenter: Ms BHATTACHARYA, Saptarna (Northwestern University)

Session Classification: Young Physicists' Lightning Round Session 1

Contribution ID: **60**

Type: **not specified**

Compressed Kinematics in SUSY Searches

Thursday, November 2, 2017 2:40 PM (10 minutes)

Presenter: Ms GONSKI, Julia (Harvard University)

Session Classification: Young Physicists' Lightning Round Session 1

Contribution ID: **61**

Type: **not specified**

Search for low mass resonances decaying to quark pairs with the CMS detector at 13 TeV

Friday, November 3, 2017 9:50 AM (10 minutes)

Presenter: MANTILLA SUAREZ, Cristina Ana (Johns Hopkins University)

Session Classification: Young Physicists' Lightning Round Session 2

Contribution ID: 62

Type: **not specified**

Solutions and Improvements for VH to tau tau Run 2 Analysis

Friday, November 3, 2017 3:30 PM (10 minutes)

Presenter: THAIS, Savannah (Yale)

Session Classification: Young Physicists' Lightning Round Session 4

Contribution ID: **63**

Type: **not specified**

Phase-2 pixel upgrade simulations

Friday, November 3, 2017 10:00 AM (10 minutes)

Presenter: Mr NAZARIO, Andres (University of Puerto Rico Mayagüez)

Session Classification: Young Physicists' Lightning Round Session 2

Contribution ID: 64

Type: **not specified**

Azimuthally differential pion femtoscopy relative to the second and third harmonic in Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV from ALICE

Friday, November 3, 2017 10:10 AM (10 minutes)

Presenter: SALEH, Mohammad (Wayne State)

Session Classification: Young Physicists' Lightning Round Session 2

Contribution ID: 65

Type: **not specified**

Evidence for the Higgs boson decay to a bottom quark-antiquark pair

Friday, November 3, 2017 10:20 AM (10 minutes)

Presenter: WANG, Sean Jiun (Univ. of Florida)

Session Classification: Young Physicists' Lightning Round Session 2

Contribution ID: **66**

Type: **not specified**

HL-LHC Tile Calorimeter Upgrade

Friday, November 3, 2017 2:40 PM (10 minutes)

Presenter: HILDEBRAND, Kevin (UChicago)

Session Classification: Young Physicists' Lightning Round Session 4

Contribution ID: 67

Type: **not specified**

Ultra-peripheral collisions in ALICE experiment

Friday, November 3, 2017 10:40 AM (10 minutes)

Presenter: Dr ADAM, Jaroslav (Creighton University)

Session Classification: Young Physicists' Lightning Round Session 2

Contribution ID: **68**

Type: **not specified**

Analysis preservation and reinterpretation infrastructure

Friday, November 3, 2017 11:40 AM (10 minutes)

Presenter: HEINRICH, Lukas (NYU)

Session Classification: Young Physicists' Lightning Round Session 3

Contribution ID: 69

Type: **not specified**

Neutral pion and eta meson production in proton-proton collisions at $\sqrt{s} = 8$ TeV

Friday, November 3, 2017 11:50 AM (10 minutes)

Presenter: SCHMIDT, Nicholas (ORNL)

Session Classification: Young Physicists' Lightning Round Session 3

Contribution ID: 70

Type: **not specified**

Fast Simulation with Generative Adversarial Networks

Friday, November 3, 2017 12:00 PM (10 minutes)

Presenter: Ms PAGANINI, Michela (Yale)

Session Classification: Young Physicists' Lightning Round Session 3

Contribution ID: 71

Type: **not specified**

Search for SUSY with a customized top tagger

Friday, November 3, 2017 3:40 PM (10 minutes)

Presenter: WANG, Hui

Session Classification: Young Physicists' Lightning Round Session 4

Contribution ID: 72

Type: **not specified**

Measurement of the calorimeter response to single hadrons with ATLAS at 13 TeV

Friday, November 3, 2017 10:30 AM (10 minutes)

Presenter: Mr OLSSON, Joakim (University of Chicago)

Session Classification: Young Physicists' Lightning Round Session 2

Contribution ID: 73

Type: **not specified**

Photon Photon Physics in CT-PPS

Friday, November 3, 2017 2:50 PM (10 minutes)

Presenter: WILLIAMS, Justin Andrew (Univ. of Kansas)

Session Classification: Young Physicists' Lightning Round Session 4

Contribution ID: 74

Type: **not specified**

Iternative approaches to modeling di-jet background in di-jet resonance searches

Presenter: FRATE, Meghan (University of California, Irvine)

Contribution ID: 75

Type: **not specified**

Search for compressed Supersymmetry with a soft tau lepton and a highly energetic ISR jet

Friday, November 3, 2017 3:00 PM (10 minutes)

Presenter: STARKO, Savanna Rae (Vanderbilt University)

Session Classification: Young Physicists' Lightning Round Session 4

Contribution ID: 76

Type: **not specified**

HH searches at CMS

Friday, November 3, 2017 3:20 PM (10 minutes)

Presenter: CADAMURO, Luca (Univ. Florida)

Session Classification: Young Physicists' Lightning Round Session 4

Contribution ID: 77

Type: **not specified**

Silicon Test Beam Results for the LHCb-UT Detector

Friday, November 3, 2017 12:10 PM (10 minutes)

Presenter: ELY, Scott Edward (Syracuse University)

Session Classification: Young Physicists' Lightning Round Session 3

Contribution ID: 78

Type: **not specified**

Search for new physics with dijet angular distributions in proton-proton collisions at 13 TeV at CMS

Friday, November 3, 2017 10:50 AM (10 minutes)

Presenter: ZHANG, Jingyu (University of Illinois Chicago)

Session Classification: Young Physicists' Lightning Round Session 2

Contribution ID: 79

Type: **not specified**

Machine learning to identify top quarks for top squark searches

Friday, November 3, 2017 2:30 PM (10 minutes)

Presenter: CALL, Kenneth Remington (Baylor University)

Session Classification: Young Physicists' Lightning Round Session 4

Contribution ID: **80**

Type: **not specified**

Identifying object in ATLAS through machine learning techniques

Friday, November 3, 2017 3:10 PM (10 minutes)

Presenter: ISLAM, Wasikul (Oklahoma State University)

Session Classification: Young Physicists' Lightning Round Session 4

Contribution ID: **81**

Type: **not specified**

Neural Networks for Particle Identification in Calorimeters

Presenter: Mr ZHANG, Matt (University of Illinois at Urbana Champaign)

Contribution ID: **82**

Type: **not specified**

HEP Trips to the US Congress

Friday, November 3, 2017 9:00 AM (30 minutes)

Presenter: Dr QUINN, Breese (University of Mississippi)

Contribution ID: **83**

Type: **not specified**

AOB

Friday, November 3, 2017 5:05 PM (15 minutes)

Contribution ID: 84

Type: **not specified**

Search for production of supersymmetric particles in final states with missing transverse momentum and multiple b-jets at $s\sqrt{=13\sim\text{TeV}}$ proton-proton collisions with the ATLAS experiment

Thursday, November 2, 2017 2:10 PM (10 minutes)

Presenter: STARK, Giordon (University of Chicago)

Session Classification: Young Physicists' Lightning Round Session 1