

Session Program

3-7 Apr 2017



25th International Workshop on Deep Inelastic Scattering and Related Topics

WG3 Higgs and BSM Physics in Hadron Collisions

University of Birmingham, School of Physics and Astronomy
Edgbaston Birmingham B15 2TT United Kingdom

Tuesday 4 April

09:00

WG3 Higgs and BSM Physics in Hadron Collisions

Session | **Location:** Nuffield Building G17

09:00–09:15

Cross section and coupling measurements with the ATLAS detector for the 125 GeV Higgs Boson in the diboson decay channels

Speaker

William Axel Leight

09:18–09:33

Higgs boson measurements and extended scalar sector searches in bosonic final states

Speaker

Seth Zenz

09:36–09:51

Cross section and coupling measurements with the ATLAS detector for the 125 GeV Higgs Boson in the fermion decay channels

Speaker

Duc Bao Ta

09:54–10:09

Higgs boson measurements and extended scalar sector searches in fermionic final states

Speaker

Teresa Lenz

10:12–10:27

Finite mass effects in Higgs and double Higgs production

Speaker

Gionata Luisoni

10:30

11:00

WG3 Higgs and BSM Physics in Hadron Collisions

Session | **Location:** Nuffield Building G17

11:00–11:15

Search for the 125 GeV Higgs boson in the $t\bar{t}H$ production mode with the ATLAS detector

Speaker

Elemer Nagy

11:20–11:35

$t\bar{t}H$ and tHq production at 13 TeV

Speaker

Georgios Krintiras

11:40–11:55

NLO matching for $t\bar{t}b\bar{b}$ production with massive b -quarks

Speaker
Tomas Jezo

12:00–12:15

Soft Gluon Resummation Beyond NLL for Associated $t\bar{t}H$ Production at the LHC

Speaker
Vincent Theeuwes

12:20–12:35

Parton shower and finite-top mass effects in HH production

Speaker
Matthias Kerner

12:40–12:55

Higgs pair production in vector-boson fusion at the LHC and beyond

Speaker
Juan Rojo

13:00

14:00

WG3 Higgs and BSM Physics in Hadron Collisions

Session | **Location:** Nuffield Building G17

14:00–14:15

Completing the hadronic Higgs boson decay at order α_s^4

Speaker
Josh Davies

14:18–14:33

Higgs decay into four charged leptons in presence of dimension six operators

Speaker
Dr Ambresh Shivaji

14:36–14:51

Electro-weak Higgs production in standard model effective field theory at NLO in QCD

Speaker
Ken Mimasu

14:54–15:09

Search for non-standard and rare decays of the Higgs boson with the ATLAS detector

Speaker
Roger Caminal Armadans

15:12–15:27

Prospects for new physics in tau decays to $l\mu\mu$ at current and future colliders

Speaker
Chris Hays

15:30

16:00

WG3 Higgs and BSM Physics in Hadron Collisions

Session | **Location:** Nuffield Building G17

16:00–16:15

Dark Matter searches with the ATLAS Detector

Speaker
Cora Fischer

16:20–16:35

Searches for dark matter at CMS in events with missing transverse energy**Speaker**

Christian Laner Ogilvy

16:40–16:55

Searches for electroweak production of supersymmetry with CMS**Speaker**

Ece Asilar

17:00–17:15

Search for direct production of charginos and neutralinos with the ATLAS detector**Speakers**

Itzebelt Santoyo Castillo, Itzebelt Santoyo Castillo

17:20–17:35

Supersymmetric signals in Z' decays**Speaker**

Gennaro Corcella

17:40–17:55

Naturalness and Dark Matter in the BLSSM**Speaker**

Simon King

18:00

Wednesday 5 April

09:00

WG3 Higgs and BSM Physics in Hadron Collisions

Session | **Location:** Nuffield Building G17

09:00–09:15 **Search for third generation squarks with the ATLAS detector**

Speaker

John Kenneth Anders

09:18–09:33

Searches for supersymmetric partners of third-generation quarks with CMS

Speaker

Marketa Jansova

09:36–09:51

Search for R-parity violating SUSY and long lived particles with the ATLAS detector

Speaker

Nathan Rogers Bernard

09:54–10:09

Search for squarks and gluinos in final states with leptons with the ATLAS detector

Speaker

Danijela Bogavac

10:12–10:27

CMS searches for supersymmetry in leptonic final states

Speaker

Nacho Suarez Andres

10:30

11:00

WG3 Higgs and BSM Physics in Hadron Collisions

Session | **Location:** Nuffield Building G17

11:00–11:20

ATLAS Searches for VH, HH, VV, V+gamma/gammagamma Resonances

Speaker

Nicolo Vladi Biesuz

11:24–11:44

Search for new resonances decaying into W, Z and H bosons at CMS

Speaker

Alberto Zucchetta

11:48–12:08

Searches for high mass BSM scalars

Speaker

Kyungwook Nam

12:12–12:32

Searches for low mass BSM particles using the 125 GeV Higgs

Speaker

Chayanit Asawatangtrakuldee

12:36–12:56

Searches for Heavy Higgs bosons A, H, H⁺ and H⁺⁺ with the ATLAS detector**Speaker**

Imma Riu

13:00

14:00

WG3 Higgs and BSM Physics in Hadron Collisions**Session** | **Location:** Nuffield Building G17

14:00–14:15

Search for New Phenomena in Dijet Events with the ATLAS Detector at $\sqrt{s} = 13$ TeV**Speaker**

Hanno Meyer Zu Theenhausen

14:18–14:33

Search for new physics with dijets at CMS at 13 TeV**Speaker**

Jingyu Zhang

14:36–14:51

Limits on the effective quark radius from inclusive ep scattering and contact interactions at HERA**Speaker**

Oleksii Turkot

14:54–15:09

Photon-Initiated processes at the LHC**Speaker**

Juri Fiaschi

15:12–15:27

New limit on heavy neutrino from NA62**Speaker**

Christopher John Parkinson

15:30

16:00

WG3 Higgs and BSM Physics in Hadron Collisions**Session** | **Location:** Nuffield Building G17

16:00–16:20

Search for vector like quarks and heavy resonances decaying to top quarks**Speaker**

Clement Camincher

16:24–16:44

Search for heavy non-SUSY BSM particles in boosted final states**Speaker**

Mareike Meyer

16:48–17:08

Production of extra quarks decaying to Dark Matter at the LHC beyond the Narrow Width Approximation**Speaker**

Hugo Prager

17:12–17:32

Searches for new phenomena in final states involving 'leptons and jets' or involving leptons using the ATLAS detector

Speaker

Yanlin Liu

17:36–17:56

Searches for BSM physics in dilepton, multilepton, and lepton+MET final states at CMS

Speaker

Halil Saka

18:00