



# 2017 Meeting of the APS Division of Particles and Fields (DPF 2017)

## Monday, 31 July 2017

### Beyond Standard Model: Monday morning - 1 West (10:45 - 12:15)

-Conveners: Christopher Hill

time	[id] title	presenter
10:45	[74] Search for 3rd generation superpartners with the ATLAS experiment	Dr YOSHIHARA, Keisuke
11:01	[43] SUSY searches using top quark tagging at CMS	PASTIKA, Nathaniel
11:13	[34] Search for supersymmetry in multijet events with missing transverse momentum in proton-proton collisions at 13 TeV	PEDRO, Kevin
11:29	[191] Search for production of supersymmetric particles in final states with missing transverse momentum and multiple b-jets at $\sqrt{s}=13$ -TeV proton-proton collisions with the ATLAS experiment	STARK, Giordon
11:41	[363] Revisiting Dyons in Particle Physics	Mr BARTLETT, David
11:53	[36] Search for supersymmetry using boosted Higgs bosons and missing transverse momentum in proton-proton collisions at 13 TeV	JENSEN, Frank

### Beyond Standard Model: Monday afternoon - 1 West (13:30 - 15:15)

-Conveners: Bjoern Penning

time	[id] title	presenter
13:30	[67] Searches for electroweakly produced supersymmetry with CMS	Mr SCHNEIDER, Basil
13:46	[263] Search for compressed supersymmetry using low pT leptons and missing transverse energy with the ATLAS detector	REICHERT, Joseph
13:58	[272] Search for electroweak production of supersymmetric particles in the two and three lepton final state at $\sqrt{s} = 13$ TeV with the ATLAS detector	RESSEGUIE, Elodie
14:14	[66] One-loop effects on Z boson decays in the SM EFT	Dr SHEPHERD, William
14:30	[99] Little hierarchy in the minimally specified MSSM	Prof. DERMISEK, Radovan
14:46	[360] Imposing LHC constraints on the combined Anomaly and Z'-Mediation mechanism of Supersymmetry Breaking	Mr ROY, Joydeep
15:01	[228] Critical behavior of SU(3) lattice gauge theory with 12 light flavors	MEURICE, Yannick

# Tuesday, 1 August 2017

## Beyond Standard Model: Tuesday morning - 1 West (10:45 - 12:15)

-Conveners: Howard Baer

time	[id] title	presenter
10:45	[235] Spectroscopy of lattice SU4 gauge theory with fermions in multiple representations	Dr AYYAR, Venkitesh
11:01	[255] Thermodynamics of SU(4) gauge theory with fermions in multiple representations	HACKETT, Daniel
11:17	[209] Search for Vector-like Top Quarks in di-Leptons	Dr BARKER, Anthony
11:33	[63] Search for vector-like quarks with oppositely-charged dilepton pairs, jets, and missing transverse energy in proton-proton collisions at centre-of-mass energy of 13 TeV	Mr MENDIS, Rachitha
11:45	[212] Inclusive search for vector-like T quark pairs in leptonic final states in proton-proton collisions at $\sqrt{s} = 13$ TeV	Mr SYARIF, Rizki
11:57	[215] Search for vector-like B quarks with oppositely-charged dilepton pairs in proton-proton collisions at 13 TeV	MITCHELL, Tyler

## Beyond Standard Model: Tuesday afternoon - 1 West (13:30 - 15:15)

-Conveners: Robin Erbacher Erbacher

time	[id] title	presenter
13:30	[81] Search for pair production of vector-like quarks in final states with a boosted W boson and b-jet with the ATLAS experiment	Prof. HALEY, Joseph
13:46	[117] Search for electroweak production of a vectorlike quark decaying to a top quark and a Higgs or Z boson using boosted topologies in an all-hadronic final state	SCHMITZ, Erich
14:02	[100] Search for low mass dijet resonances in association with ISR at the ATLAS experiment	KAPLAN, Laser
14:18	[50] Search for light vector resonances decaying to a quark pair produced in association with a jet with the CMS detector at 13 TeV	MANTILLA SUAREZ, Cristina Ana
14:30	[37] Search for paired dijet resonances in the boosted and non-boosted regime with the CMS detector at 13 TeV	GOMEZ ESPINOSA, Alejandro
14:46	[54] Searches for new heavy resonances in final states with leptons, photons, and jets in CMS	NEUMEISTER, Norbert
15:02	[85] Search for diphoton high-mass resonances with $36.7 \text{ fb}^{-1}$ of data collected at $\sqrt{s}=13$ TeV with the ATLAS experiment	Mr SILVA, Manuel

# Wednesday, 2 August 2017

## **Beyond Standard Model: Wednesday morning - 1 West (10:45 - 12:15)**

-Conveners: Patrick Fox

time	[id] title	presenter
10:45	[39] Search for Top-Anitop Quark Resonances in Boosted Semileptonic Final States in 13 TeV pp Collisions	Mr BERRY, Douglas
11:00	[35] Search for new physics with dijet angular distributions in proton-proton collisions at 13 TeV at CMS	ZHANG, Jingyu
11:15	[138] Search for Contact Interactions in $\mu + \mu -$ and $e + e -$ Final States in 13 TeV p-p Collisions at CMS	Mr ZALESKI, Shawn
11:30	[203] A search for B-L R-parity-violating scalar top decays in $\sqrt{s}=13$ TeV pp collisions with the ATLAS experiment	SCHAEFER, Leigh
11:45	[20] Search for evidence of Type-III seesaw mechanism in multilepton final states in pp collisions at 13 TeV	HEINDL, Maximilian
12:00	[536] Broader Use of Simplified Limits on Resonances at the LHC	Prof. SIMMONS, Elizabeth

## **Beyond Standard Model: Wednesday afternoon - 1 West (13:30 - 15:15)**

-Conveners: Kevin Burkett

time	[id] title	presenter
13:30	[414] Current status of MSSM Higgs sector with LHC 13 TeV data	Dr CHOWDHURY, Debtosh
13:48	[70] Search for pair production of Higgs bosons in the $b\bar{b}b\bar{b}$ final state with the ATLAS experiment	Mr TONG, Tony
14:06	[76] A search for charged Higgs bosons with the ATLAS experiment	Mr BURGHGRAVE, Blake
14:24	[395] Searches for exotica at LHCb	ILTEN, Philip
14:42	[121] Searches for new physics using long-lived particles with the CMS detector	Prof. ADAMS, Todd

# Thursday, 3 August 2017

## Beyond Standard Model: Joint with Higgs, Thursday morning - Comitium (10:45 - 12:15)

-Conveners: Gordon Watts

time	[id] title	presenter
10:45	[44] Search for new resonances decaying into boosted W, Z and H bosons at CMS	KROHN, Michael
11:01	[69] Searches for Heavy Resonances Decaying to a W or Z Boson and a Higgs Boson with the ATLAS experiment	OCHOA, Ines
11:13	[56] Searches for new resonances decaying into diboson final states with large missing transverse momentum	Mr WANG, Yanchu
11:25	[88] Search for high-mass $Z\gamma$ and $W^{\pm}\gamma$ resonances using 36 $\text{fb}^{-1}$ of data from $pp$ collisions at $\sqrt{s}=13$ TeV with the ATLAS experiment	Mr TANG, Wei
11:41	[545] Looking Forward to Dark Photons at the LHC	Mr KLING, Felix

## Beyond Standard Model: Thursday morning - 1 West (10:45 - 12:15)

-Conveners: Roni Harnik

time	[id] title	presenter
10:45	[52] Nucleon Decay in Super-Kamiokande: Results and Prospects	SANTUCCI, Gabriel
11:01	[143] Searches for Neutron-Antineutron Oscillation in DUNE	Mr BARROW, Joshua
11:17	[390] A Neural Net Trigger for a Monopole Search with the NOvA Far Detector	SONG, Enhao
11:33	[73] Search for Dark Matter in Jets plus MET final state for Non-thermal Dark Matter, Fermion Portal and ADD models using data from Proton-Proton Collisions at $\sqrt{s}=13$ TeV.	Ms UNDLIEB, Sonaina
11:49	[239] What does a non-vanishing neutrino mass have to say about the strong CP problem?	Prof. HUNG, P.Q.

## Beyond Standard Model: Thursday afternoon - 1 West (13:30 - 15:15)

-Conveners: Patrick Fox

time	[id] title	presenter
13:30	[10] CompEx II: A Pathway in Search of BSM Physics using Compton Scattering	MOHANMURTHY, Prajwal
13:46	[13] The REDTOP experiment: Rare Eta Decays with a TPC for Optical Photons	Prof. GATTO, Corrado
14:02	[184] Search for the Lepton Flavor Violating Decay $\Upsilon(3S) \rightarrow e^{\pm}\mu^{\pm}$	Ms TASNEEM, Nafisa
14:18	[308] New Search for Mirror Neutrons at HFIR	Dr BROUSSARD, Leah
14:34	[488] The MoEDAL Experiment at the LHC - a new light on the High Energy Frontier	Prof. JAMES, Pinfold
14:50	[146] Small Instantons and the Strong CP Problem	HOWE, Kiel
15:02	[214] Generalized CP: Yukawa Interactions	Dr ARANDA, Alfredo