

Session Program

12-15 May 2014



Mitchell Workshop on Collider and Dark Matter Physics

Collider session

Mitchell Institute for Fundamental Physics, Texas A&M University
University Ave & Ireland Street, College Station, Texas 77845

Sunday 11 May

08:40

Collider session: morning

Session | **Location:** Mitchell Institute for Fundamental Physics, Texas A&M University

08:40-09:15

Andrey Korytov - Status of Higgs boson studies with the CMS Detector

09:15-09:50

Michel Janus - Review of the current ATLAS SM Higgs results

09:50-10:25

Sunil Somalwar - Recent results from CMS SUSY searches with emphasis on higgs final states

10:25

10:45

Collider session: morning

Session | **Location:** Mitchell Institute for Fundamental Physics, Texas A&M University, Hawking Auditorium

10:45-11:20

Hal Evans - ATLAS BSM Higgs

11:20-11:55

Archana Anandkrishnan - Gluino limits on Triangles: A lesson from SO(10) GUTS

11:55-12:30

Xerxes Tata - Naturalness and Supersymmetry: Radiatively Driven Natural SUSY

12:30

13:30

Collider session: afternoon

Session | **Location:** Mitchell Institute for Fundamental Physics, Texas A&M University

13:30-14:05

John Paul Chou - Status of CMS Exotica Results

14:05-14:40

Mansoor Shamim - ATLAS exotic searches

14:40-15:15

Ze'ev Surujon - Exotic Higgs Decays

15:15

15:35

Collider session: afternoon

Session | **Location:** Mitchell Institute for Fundamental Physics, Texas A&M University

15:35-16:10

Carmen Garcia - ATLAS Upgrade physics

16:10-16:45

Chris Hill - The Evolution of LHC (and the CMS experiment)

16:45-17:20

Yuriy Pakhotin - Exotic Higgs decays to boosted dimuons

17:20

Monday 12 May

08:35

Collider session: morning

Session | **Location:** Mitchell Institute for Fundamental Physics, Texas A&M University

08:35-09:10 **Amir Farbin - SUSY searches at ATLAS**

09:10-09:45

Adrian Perieanu - Searches for BSM Higgs bosons and non-SM Higgs decays at CMS

09:45-10:20 **Azar Mustafayev - Collider Signatures of Natural SUSY**

10:20

10:45

Collider session: morning

Session | **Location:** Mitchell Institute for Fundamental Physics, Texas A&M University

10:45-11:20 **Peter McIntyre - 100 TeV Hadron Collider for a New World Laboratory**

11:20-11:55

Jianghao Yu - Better Mass Measurement using Many Body Phase Space Boundary in Cascade Decay

11:55-12:30 **Peisi Huang - What does a higgs tell us about SUSY?**

12:30

13:30

Collider session: afternoon

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13:30-14:05

Rouzbeh Allahverdi - Light non-thermal dark matter: a minimal model and detection prospects

14:05-14:40 **Yang Bai - Fermion Portal Dark Matter**

14:40-15:15 **Kuver Sinha - Whither Thermal Freezeout**

15:15

15:35

Collider session: afternoon

Session | **Location:** Mitchell Institute for Fundamental Physics, Texas A&M University

15:35-16:10 **Bibhushan Shakya - A New Probe of Neutralino Decays at the LHC**

16:10-16:45

Yu Gao - Probing the nature of neutrinos under the supersymmetric $U(1)_{B-L}$

16:45-17:20

Joel Walker - Enhancing Collider Sensitivity to Stau-Neutralino Co-Annihilation by Application of a Boosted Event Topology Selection

17:20