

**Mitchell Workshop on
Collider and Dark Matter
Physics**

Report of Contributions

Contribution ID: 0

Type: **not specified**

Introduction - Phenomenology Projects

Thursday, 18 May 2017 09:00 (10 minutes)

Interconnection between collider and dark matter physics

Presenter: KAMON, Teruki (Texas A & M University (US))

Contribution ID: 1

Type: **not specified**

SUSY searches in VBF topology and associated DM interpretations

Thursday, 18 May 2017 09:10 (20 minutes)

Presenter: RUIZ, Jose (Universidad de los Andes (CO))

Contribution ID: 2

Type: **not specified**

Probing compressed SUSY with low- p_T leptons

Thursday, 18 May 2017 09:30 (20 minutes)

Presenter: CASTELLO, Roberto (CERN)

Contribution ID: 4

Type: **not specified**

DM searches in mono-X

Thursday, 18 May 2017 10:30 (20 minutes)

Summary

Presenter: KUNORI, Shuichi (Texas Tech University (US))

Contribution ID: 5

Type: **not specified**

Light non-thermal dark matter

Thursday, 18 May 2017 10:50 (20 minutes)

A minimal model and detection prospects

Summary

Presenter: ALLAHVERDI, Rouzbeh (New Mexico University)

Contribution ID: 6

Type: **not specified**

CMS non-thermal DM model interpretation

Thursday, 18 May 2017 11:10 (20 minutes)

Presenter: Mrs UNDLEEB, Sonaina (Texas Tech University (US))

Contribution ID: 7

Type: **not specified**

Bottom fermion fusion initial states

Thursday, 18 May 2017 13:30 (20 minutes)

Presenter: RATHJENS, Denis (Texas A & M University (US))

Contribution ID: 8

Type: **not specified**

Probing Zprime models for B anomalies

Thursday, 18 May 2017 13:50 (20 minutes)

Presenter: HUANG, Peisi

Contribution ID: 9

Type: **not specified**

Resolving combinatorial ambiguities in dilepton $t\bar{t}$ event topologies

Thursday, 18 May 2017 14:10 (20 minutes)

Presenter: KIM, Jeong Han (University of Kansas)

Contribution ID: **10**

Type: **not specified**

Beyond simplified dark matter models

Thursday, 18 May 2017 14:30 (20 minutes)

Presenter: GONÇALVES, Dorival (University of Pittsburgh)

Contribution ID: 11

Type: **not specified**

Dark matter candidates in left-right symmetric models

Thursday, 18 May 2017 14:50 (20 minutes)

Summary

Presenter: RESTREPO, Diego

Contribution ID: 12

Type: **not specified**

Direct detection inference with minimal assumptions

Thursday, 18 May 2017 15:30 (20 minutes)

Presenter: NEWSTEAD, Jayden (Arizona State University)

Contribution ID: **13**

Type: **not specified**

Tianjun Li

Contribution ID: 14

Type: **not specified**

Simulations of self-interacting dark matter

Friday, 19 May 2017 13:30 (20 minutes)

Summary

Presenter: VOGELBERGER, Mark

Contribution ID: 15

Type: **not specified**

Observational tests of self-interacting dark matter

Friday, 19 May 2017 09:00 (15 minutes)

Summary

Presenter: PACE, Andrew

Contribution ID: 16

Type: **not specified**

Sommerfeld-enhanced J factors for dwarf galaxies

Friday, 19 May 2017 09:15 (20 minutes)

Presenter: WANG, Mei-Yu (Texas A&M University)

Contribution ID: 17

Type: **not specified**

The minimal GUT with Inflaton and dark matter unification

Friday, 19 May 2017 09:35 (20 minutes)

Presenter: LI, Tianjun

Contribution ID: **18**

Type: **not specified**

Reviving and testing Bino dark matter with vector-like particle

Friday, 19 May 2017 09:55 (20 minutes)

Presenter: ABDULLAH, Mohammad (University of California , Irvine)

Contribution ID: 19

Type: **not specified**

SUSY -MET +leptons overview

Friday, 19 May 2017 10:40 (20 minutes)

Presenter: SHCHUTSKA, Lesya (Eidgenoessische Technische Hochschule Zuerich (CH))

Contribution ID: 20

Type: **not specified**

Searches for supersymmetry in hadronic final states

Friday, 19 May 2017 11:00 (20 minutes)

Presenter: ULMER, Keith (Texas A & M University (US))

Contribution ID: 21

Type: **not specified**

Searching for hidden sectors at colliders

Friday, 19 May 2017 11:20 (20 minutes)

Summary

Presenter: Dr PERNIE, Luca (Texas A&M University)

Contribution ID: 22

Type: **not specified**

The 750 GeV Diphoton Excesses in Realistic String Models

Presenter: MAYES, Eric (University of Houston-Clear Lake)

Contribution ID: 23

Type: **not specified**

Collider search(es) for the RH neutrino

Friday, 19 May 2017 11:40 (20 minutes)

Probing right-handed neutrinos via the semi-leptonic Higgs channel

Presenter: GAO, Yu (U)

Contribution ID: 24

Type: **not specified**

Phenomenology of the Higgs sector of dimension-7 neutrino mass generation mechanism

Friday, 19 May 2017 13:50 (20 minutes)

Summary

Presenter: GHOSH, Tathagata (Texas A&M University)

Contribution ID: 25

Type: **not specified**

Characterizing dark matter model with Higgs portal at the ILC

Friday, 19 May 2017 14:10 (20 minutes)

Presenter: LI, Jinmian (KIAS)

Contribution ID: 26

Type: **not specified**

Dark matter in the new bulk region of the MSSM

Friday, 19 May 2017 14:30 (20 minutes)

Presenter: STENGEL, Patrick

Contribution ID: 51

Type: **not specified**

Search for direct stop pair production in the fully hadronic final state at CMS

Thursday, 18 May 2017 09:50 (20 minutes)

Presenter: WU, Zhenbin (University of Illinois at Chicago (US))

Contribution ID: 52

Type: **not specified**

Lessons learned taking indirect detection to the full sky

Thursday, 18 May 2017 15:50 (20 minutes)

Presenter: CAMPBELL, Sheldon (The Ohio State University)

Contribution ID: 53

Type: **not specified**

Searching for top-philic dark matter

Friday, 19 May 2017 14:50 (20 minutes)

Presenter: DIFRANZO, Anthony (Rutgers University)

Contribution ID: 54

Type: **not specified**

An effective field theory approach to reheating

Friday, 19 May 2017 15:30 (20 minutes)

Presenter: OZSOY, Ogan (Syracuse University)

Contribution ID: 55

Type: **not specified**

Primordial black hole dark matter from UV physics

Friday, 19 May 2017 15:50 (20 minutes)

Presenter: WATSON, Scott (Syracuse University)

Contribution ID: 56

Type: **not specified**

Enhancing dark matter annihilation with dark Bremsstrahlung

Friday, 19 May 2017 16:10 (20 minutes)

Presenter: DENT, James (University of Louisiana at Lafayette)

Contribution ID: 57

Type: **not specified**

Dark matter relics in disformal scalar-tensor theories

Friday, 19 May 2017 16:30 (20 minutes)

Presenter: ZAVALA, Ivonne (Swansea University)

Contribution ID: 58

Type: **not specified**

Conformal Scalar-Tensor theories and dark matter

Friday, 19 May 2017 16:50 (15 minutes)

Summary

Presenter: JIMENEZ, Esteban (Texas A&M University)

Contribution ID: 59

Type: **not specified**

Planck constraint on relic primordial black holes

Friday, 19 May 2017 17:05 (15 minutes)

Presenter: CLARK, Steven (Texas A&M University - College Station)

Contribution ID: **60**

Type: **not specified**

500 GeV Collider

Friday, 19 May 2017 17:20 (20 minutes)

Presenter: MCINTYRE, Peter (Texas A&M University)