

# DM @ LHC 2014: Merton College, Oxford



## Report of Contributions

Contribution ID: 16

Type: **not specified**

## Theoretical Overview

*Thursday, September 25, 2014 9:30 AM (50 minutes)*

### Type of contribution

Talk

**Presenter:** WEINER, Neal (NYU)

**Session Classification:** Session 0

Contribution ID: 17

Type: **not specified**

## Workshop Introduction

*Thursday, September 25, 2014 9:15 AM (10 minutes)*

**Presenter:** WORM, Steven (STFC - Rutherford Appleton Lab. (GB))

**Session Classification:** Session 0

Contribution ID: **18**

Type: **not specified**

## **Future of jet+MET searches**

*Saturday, September 27, 2014 10:00 AM (20 minutes)*

**Presenter:** DOLAN, Matthew (IPPP, Durham)

**Session Classification:** Session 4

Contribution ID: 19

Type: **not specified**

## **Dark matter, heavy quarks, and the galactic center excess**

*Friday, September 26, 2014 12:05 PM (20 minutes)*

**Presenter:** LIN, Tongyan (urn:Google)

**Session Classification:** Session 2

Contribution ID: 20

Type: **not specified**

## **Invisible Z' and dark matter in Collider and Direct Detection searches**

*Friday, September 26, 2014 11:40 AM (20 minutes)*

**Presenter:** ZALDÍVAR MONTERO, Bryan (IFT UAM/CSIC)

**Session Classification:** Session 2

Contribution ID: 21

Type: **not specified**

## **Mono-jet searches for dark matter: QCD effects and structure of dark-matter couplings**

*Friday, September 26, 2014 9:50 AM (20 minutes)*

**Presenter:** Dr RE, Emanuele

**Session Classification:** Session 2

Contribution ID: 22

Type: **not specified**

## Fermion Portal Dark Matter

*Friday, September 26, 2014 9:25 AM (20 minutes)*

**Presenter:** BERGER, Joshua (Cornell University)

**Session Classification:** Session 2



Contribution ID: 23

Type: **not specified**

## **Optimising DM searches at the LHC searches using relic density constraints**

*Thursday, September 25, 2014 4:30 PM (20 minutes)*

**Presenter:** JACQUES, Thomas David (Universite de Geneve (CH))

**Session Classification:** Session 1

Contribution ID: 24

Type: **not specified**

## **Towards a Supersymmetric Description of the Fermi Galactic Center Excess**

*Friday, September 26, 2014 5:00 PM (20 minutes)*

**Presenter:** RIZZO, Thomas (SLAC)

**Session Classification:** Session 3

Contribution ID: 25

Type: **not specified**

## **Conformally Symmetric Extensions of the Standard Model & Dark Matter**

*Friday, September 26, 2014 4:30 PM (20 minutes)*

**Presenter:** SMIRNOV, Juri (Max Planck Institute for Nuclear Physics)

**Session Classification:** Session 3

Contribution ID: 26

Type: **not specified**

## **Testing Light Neutralino Dark Matter at the LHC**

*Friday, September 26, 2014 2:30 PM (20 minutes)*

**Presenter:** CALIBBI, Lorenzo (ULB, Brussels)

**Session Classification:** Session 3

Contribution ID: 27

Type: **not specified**

## **Dark matter in the MSSM, Dr. ARBEY, Alexandre**

*Friday, September 26, 2014 4:00 PM (20 minutes)*

**Presenter:** ARBEY, Alexandre (Lyon U.)

**Session Classification:** Session 3

Contribution ID: 28

Type: **not specified**

## **The interplay of the LHC and Direct Dark Matter Detection in unravelling Natural Supersymmetry at the Focus Point**

*Friday, September 26, 2014 3:00 PM (20 minutes)*

**Presenter:** BELYAEV, Alexander (STFC - Rutherford Appleton Lab. (GB))

**Session Classification:** Session 3

Contribution ID: 29

Type: **not specified**

## **The race (through the labyrinth?) to directly detect dark matter**

*Thursday, September 25, 2014 5:00 PM (35 minutes)*

**Presenter:** TUNNELL, Christopher (Enrico Fermi Institute-University of Chicago-Unknown)

**Session Classification:** Session 1

Contribution ID: 30

Type: **not specified**

## **Theoretical uncertainties in the predictions for direct detection experiments**

*Saturday, September 27, 2014 9:00 AM (20 minutes)*

**Presenter:** KAHLHOEFER, Felix (University of Oxford)

**Session Classification:** Session 4



Contribution ID: **31**

Type: **not specified**

## Workshop Summary

*Saturday, September 27, 2014 11:25 AM (45 minutes)*

**Presenter:** Prof. TAIT, Tim M.P. (University of California, Irvine)

**Session Classification:** Session 4

Contribution ID: 32

Type: **not specified**

## **Dark Matter results from Monojets at the LHC**

*Friday, September 26, 2014 9:00 AM (20 minutes)*

**Presenter:** KOTOV, Khristian (Ohio State University (US))

**Session Classification:** Session 2

Contribution ID: 33

Type: **not specified**

## **Search for Dark Matter in the monophoton channel**

*Thursday, September 25, 2014 11:00 AM (20 minutes)*

**Presenter:** LUCAS, Robyn (Imperial College Sci., Tech. & Med. (GB))

**Session Classification:** Session 0

Contribution ID: 34

Type: **not specified**

## **CMS Search for Dark Matter produced in association with top quarks**

*Thursday, September 25, 2014 2:00 PM (20 minutes)*

**Presenter:** PINNA, Deborah (Universitaet Zuerich (CH))

**Session Classification:** Session 1

Contribution ID: 35

Type: **not specified**

## **Dark Matter from invisible Higgs at the LHC**

*Thursday, September 25, 2014 2:30 PM (20 minutes)*

**Presenter:** BROOKE, Jim (University of Bristol (GB))

**Session Classification:** Session 1

Contribution ID: 36

Type: **not specified**

## **Search for Dark Matter in mono-lepton events**

*Thursday, September 25, 2014 12:00 PM (20 minutes)*

**Presenter:** METE, Alaettin Serhan (University of California Irvine (US))

**Session Classification:** Session 0

Contribution ID: 37

Type: **not specified**

## **Searches for Dark Matter at the LHC in Z or hadronic W events**

*Thursday, September 25, 2014 11:30 AM (20 minutes)*

**Presenter:** BRENNAN, Amelia Jean (University of Melbourne (AU))

**Session Classification:** Session 0

Contribution ID: **38**

Type: **not specified**

## **LHC searches for Dark Matter at 13 TeV**

*Saturday, September 27, 2014 9:30 AM (20 minutes)*

**Presenter:** DI SIMONE, Andrea (University of Freiburg)

**Session Classification:** Session 4



Contribution ID: 39

Type: **not specified**

## **Experimental summary of SUSY Dark Matter searches at the LHC**

*Friday, September 26, 2014 2:00 PM (20 minutes)*

**Presenter:** NAKAHAMA, Yu

**Session Classification:** Session 3

Contribution ID: 40

Type: **not specified**

## **DM@LHC: Loose ends**

*Thursday, September 25, 2014 3:00 PM (20 minutes)*

**Presenter:** HAISCH, Ulrich Andreas (University of Oxford (GB))

**Session Classification:** Session 1

Contribution ID: 41

Type: **not specified**

## Workshop Close & Future Plans

*Saturday, September 27, 2014 12:15 PM (15 minutes)*

**Presenters:** Ms DOGLIONI, Caterina (Universite de Geneve (CH)); BERGE, David (NIKHEF (NL)); Prof. SARKAR, S (University of Oxford (GB)); MALIK, Sarah (Imperial College Sci., Tech. & Med. (GB)); WORM, Steven (STFC - Rutherford Appleton Lab. (GB)); HAISCH, Ulrich Andreas (University of Oxford (GB)); KHOZE, Valentin (High Energy Physics Division (HEPD))

**Session Classification:** Session 4

Contribution ID: 42

Type: **not specified**

## Workshop Registration

*Thursday, September 25, 2014 9:00 AM (10 minutes)*

**Session Classification:** Session 0

Contribution ID: 43

Type: **not specified**

## **Discussion: DM@LHC run-1: the good, the bad & the ugly**

*Thursday, September 25, 2014 3:30 PM (20 minutes)*

**Session Classification:** Session 1

Contribution ID: 44

Type: **not specified**

## **Discussion: Exotic mediators and how to constrain them in other searches**

Contribution ID: 45

Type: **not specified**

## Welcome Reception and Poster Session

*Thursday, September 25, 2014 5:40 PM (1h 15m)*

Contribution ID: 46

Type: **not specified**

## **Discussions at the pub, tour of Merton**

*Friday, September 26, 2014 5:30 PM (1h 45m)*



Contribution ID: 52

Type: **not specified**

## **Simplified Models for Dark Matter and Missing Energy Searches at the LHC**

*Saturday, September 27, 2014 11:00 AM (20 minutes)*

**Presenter:** BUSONI, Giorgio

**Session Classification:** Session 4

Contribution ID: 53

Type: **not specified**

## **Getting past the neutrino barrier, and dijets close to resonance**

*Friday, September 26, 2014 11:15 AM (20 minutes)*

**Presenter:** FAIRBAIRN, Malcolm (Unknown)

**Session Classification:** Session 2

Contribution ID: 54

Type: **not specified**

## **DM dijet/contact interaction interplay**

*Friday, September 26, 2014 10:50 AM (20 minutes)*

**Presenter:** DREINER, Herbi (Bonn University)

**Session Classification:** Session 2