

**Dark Matter models with
 $\tilde{\chi}$ -channel mediators @ LHC
(LHC DM WG public meeting)**

Report of Contributions

Contribution ID: 1

Type: **not specified**

Welcome: the LHC DM WG & goals of this meeting

Friday 26 April 2019 13:00 (10 minutes)

Presenters: OHM, Christian (KTH Royal Institute of Technology (SE)); BRANDT, Oleg (Ruprecht Karls Universitaet Heidelberg (DE)); HARRIS, Philip Coleman (Massachusetts Inst. of Technology (US)); TAIT, Tim M.P. (University of California, Irvine); CID VIDAL, Xabier (Instituto Galego de Física de Altas Enerxías)

Session Classification: Introduction

Contribution ID: 2

Type: **not specified**

History and overview of t-channel models

Friday 26 April 2019 13:10 (20 minutes)

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

Session Classification: Introduction

Contribution ID: 4

Type: **not specified**

The scope of this session

Friday 26 April 2019 16:45 (5 minutes)

Session Classification: Going Beyond

Contribution ID: 5

Type: **not specified**

Direct (à la semileptonic b-decays) DM searches in B-sector [topic we'd like to discuss]

Friday 26 April 2019 16:50 (1 minute)

Presenter: SMITH, Christopher (LPSC)

Session Classification: Going Beyond

Contribution ID: 6

Type: **not specified**

t-channel interpretations @ CMS

Friday 26 April 2019 13:40 (10 minutes)

Presenter: ALBERT, Andreas (Rheinisch Westfaelische Tech. Hoch. (DE))

Session Classification: Consolidating Existing Work

Contribution ID: 7

Type: **not specified**

t-channel interpretations @ ATLAS

Friday 26 April 2019 13:55 (10 minutes)

Presenter: MCDONALD, Millie (University of Melbourne (AU))

Session Classification: Consolidating Existing Work

Contribution ID: 8

Type: **not specified**

Dark matter with t-channel mediator: a simple step beyond contact interaction

Friday 26 April 2019 14:10 (10 minutes)

Presenters: Mr ZHANG, HAO (Theoretical Division, Institute of High Energy Physics, Chinese Academy of Sciences); AN, Haipeng (Perimeter Institute); AN, Haipeng (University of Maryland); Dr AN, Haipeng (Caltech); WANG, LianTao (University of Chicago); WANG, Liantao (Princeton University); WANG, Liantao (University of Chicago (US))

Session Classification: Consolidating Existing Work

Contribution ID: 9

Type: **not specified**

Signatures of Majorana dark matter with t-channel mediators

Friday 26 April 2019 14:25 (10 minutes)

Presenters: VOGL, Stefan (Max Planck Institute for Nuclear Physics); VOGL, Stefan (Max Planck Institute for Nuclear Physics); ET AL

Session Classification: Consolidating Existing Work

Contribution ID: **10**

Type: **not specified**

Simplified DM models with the full SM gauge symmetry

Friday 26 April 2019 14:40 (10 minutes)

Presenter: KO, pyungwon (Korea Inst. for Advanced Study (KIAS))

Session Classification: Consolidating Existing Work

Contribution ID: 11

Type: **not specified**

Indirect (e.g. $B_0 - \bar{B}_0$ oscillations) DM searches in B-sector [topic we'd like to discuss]

Friday 26 April 2019 16:50 (1 minute)

Presenters: BLANKE, Monika; BLANKE, Monika; BLANKE, Monika (Karlsruhe Institute of Technology); BLANKE, Monika (Technucal University Munich)

Session Classification: Going Beyond

Contribution ID: 14

Type: **not specified**

Your new ideas!

Friday 26 April 2019 16:50 (1 minute)

Session Classification: Going Beyond

Contribution ID: 15

Type: **not specified**

Direct Detection and LHC constraints on a t-Channel Simplified Model of Majorana Dark Matter at One Loop

Friday 26 April 2019 14:55 (10 minutes)

Presenters: MOHAN, Kirtimaan (Michigan State University); ET AL

Session Classification: Consolidating Existing Work

Contribution ID: 16

Type: **not specified**

Brief review on the vector-like portal to scalar dark matter

Friday 26 April 2019 15:45 (10 minutes)

Presenters: VANDECASTEELE, Jerome; TYTGAT, Michel (Université Libre de Bruxelles)

Session Classification: Consolidating Existing Work

Contribution ID: 17

Type: **not specified**

Flavored dark matter beyond Minimal Flavor Violation

Friday 26 April 2019 16:00 (10 minutes)

Presenters: BLANKE, Monika; BLANKE, Monika (Karlsruhe Institute of Technology); BLANKE, Monika

Session Classification: Consolidating Existing Work

Contribution ID: **18**

Type: **not specified**

Leptonic WIMP Coannihilation and the Current Dark Matter Search Strategy

Friday 26 April 2019 16:30 (10 minutes)

Presenters: BAKER, Michael (Universitaet Zuerich (CH)); BAKER, Michael James (Universitaet Zuerich (CH))

Session Classification: Consolidating Existing Work

Contribution ID: 19

Type: **not specified**

A flavoured dark sector

Friday 26 April 2019 16:15 (10 minutes)

Presenters: SCHWALLER, Pedro Klaus (Mainz University); RENNER, Sophie (CERN); RENNER, Sophie (University of Mainz)

Session Classification: Consolidating Existing Work

Contribution ID: 20

Type: **not specified**

What can we do at B-factories that we can't at the LHC in terms of DM searches?

Friday 26 April 2019 16:50 (15 minutes)

Presenters: GRAZIANI, Enrico (Universita e INFN Roma Tre (IT)); GRAZIANI, Enrico (INFN - National Institute for Nuclear Physics)

Session Classification: Going Beyond