

# **2021 LHC DM WG workshop (part II)**

## **Report of Contributions**

Contribution ID: 1

Type: **not specified**

# Welcome

*Tuesday 30 November 2021 14:00 (5 minutes)*

Contribution ID: 15

Type: **not specified**

## **ATLAS results (15'+10')**

*Tuesday 30 November 2021 14:05 (25 minutes)*

**Presenter:** SABETTA, Luigi (Sapienza Universita e INFN, Roma I (IT))

**Session Classification:** Higgs invisible decays

Contribution ID: 16

Type: **not specified**

## **CMS results (15'+10')**

*Tuesday 30 November 2021 14:30 (25 minutes)*

**Presenter:** AKPINAR, Alp (Boston University (US))

**Session Classification:** Higgs invisible decays

Contribution ID: 17

Type: **not specified**

## **The Higgs-portal for vector Dark Matter and the Effective Field Theory approach: a reappraisal (arXiv:2001.10750)**

*Tuesday 30 November 2021 14:55 (25 minutes)*

**Presenters:** ARCADI, Giorgio; ARCADI, Giorgio

**Session Classification:** Higgs invisible decays

Contribution ID: **18**

Type: **not specified**

## **Vector Dark Matter through a Radiative Higgs Portal (arXiv:1512.06853)**

*Tuesday 30 November 2021 15:15 (25 minutes)*

**Presenter:** FOX, Patrick James

**Session Classification:** Higgs invisible decays

Contribution ID: 19

Type: **not specified**

## **Higgs portal vector dark matter interpretation (arXiv:2107.01252 )**

*Tuesday 30 November 2021 15:35 (20 minutes)*

**Presenter:** ZAAZOUA, Mohamed (Universite Mohammed V (MA))

**Session Classification:** Higgs invisible decays

Contribution ID: **20**

Type: **not specified**

## Discussion

*Tuesday 30 November 2021 16:15 (25 minutes)*

**Session Classification:** Higgs invisible decays

Contribution ID: 21

Type: **not specified**

## **CMS results (10'+10')**

*Tuesday 30 November 2021 16:55 (20 minutes)*

**Presenter:** KLIJNSMA, Thomas (Fermi National Accelerator Lab. (US))

**Session Classification:** Dark sector / dark QCD

Contribution ID: 22

Type: **not specified**

## Overview of the dark shower Snowmass project (10' + 10')

*Tuesday 30 November 2021 17:40 (20 minutes)*

**Presenter:** GENEST, Marie-Helene (LPSC-Grenoble, CNRS/UGA (FR))

**Session Classification:** Dark sector / dark QCD

Contribution ID: 23

Type: **not specified**

## **Overview of the theory landscape for dark QCD models with focus on viable DM candidates (15'+10')**

*Tuesday 30 November 2021 17:15 (25 minutes)*

**Presenter:** KULKARNI, Suchita (University of Graz)

**Session Classification:** Dark sector / dark QCD

Contribution ID: 24

Type: **not specified**

## **Impact of Sommerfeld enhancement and bound state formation in simplified t-channel models**

*Tuesday 30 November 2021 18:00 (20 minutes)*

**Presenter:** HARZ, Julia (Technical University of Munich (TUM))

**Session Classification:** t-channel effort

Contribution ID: 25

Type: **not specified**

## **Comments on the Higgs portal VDM : EFT vs. UV completions**

*Tuesday 30 November 2021 15:55 (20 minutes)*

**Presenter:** KO, pyungwon

**Session Classification:** Higgs invisible decays