

# **Flavour and Dark Matter Workshop**

## **Report of Contributions**

Contribution ID: 1

Type: **not specified**

# Flavourful Axion Phenomenology

*Monday, 24 September 2018 09:40 (40 minutes)*

**Presenter:** BJÖRKEROTH, Fredrik (Frascati)

**Session Classification:** Axions

Contribution ID: 2

Type: **not specified**

## SO(3) family symmetry and axions

*Monday, 24 September 2018 10:50 (40 minutes)*

**Presenter:** REIG, Mario (IFIC Valencia)

**Session Classification:** Axions

Contribution ID: 3

Type: **not specified**

## **A Common Source for Scalars: Axiflavin-Higgs Unification**

*Monday, 24 September 2018 11:30 (40 minutes)*

**Presenter:** BLASI, Simone (MPIK Heidelberg)

**Session Classification:** Axions

Contribution ID: 4

Type: **not specified**

## Overview of Dark Sector Searches at LHCb

*Monday, 24 September 2018 14:00 (40 minutes)*

**Presenter:** BORSATO, Martino (U Heidelberg)

**Session Classification:** Quark flavour

Contribution ID: 5

Type: **not specified**

## The $b \rightarrow s$ anomalies and dark matter

*Monday, 24 September 2018 14:40 (40 minutes)*

**Presenter:** VICENTE, Avelino (IFIC Valencia)

**Session Classification:** Quark flavour

Contribution ID: 6

Type: **not specified**

## **New Physics searches with NA62**

*Monday, 24 September 2018 15:20 (40 minutes)*

**Presenter:** DÖBRICH, Babette (CERN)

**Session Classification:** Quark flavour

Contribution ID: 7

Type: **not specified**

## **Invisible widths of heavy mesons**

*Monday, 24 September 2018 16:30 (40 minutes)*

**Presenter:** PETROV, Alexey

**Session Classification:** Quark flavour



Contribution ID: 8

Type: **not specified**

## Exploring CPT violation in of B0-B0-bar systems

**Presenter:** NAYAK, Abinash Kumar (IMSc, HBNI, Chennai)

**Session Classification:** Quark flavour

Contribution ID: 9

Type: **not specified**

## Flavour and Dark Matter from the Electroweak Scale

*Wednesday, 26 September 2018 11:30 (40 minutes)*

**Presenter:** TENORTH, Valentin (MPIK Heidelberg)

**Session Classification:** Extended Higgs sectors

Contribution ID: **10**

Type: **not specified**

## **Rare B decays with invisible Higgs bosons**

*Wednesday, 26 September 2018 12:10 (40 minutes)*

**Presenter:** KACHANOVICH, Aliaksei (KIT)

**Session Classification:** Extended Higgs sectors

Contribution ID: 11

Type: **not specified**

## Light $Z'$ Physics in $U(1) \times SM$ Extensions

*Tuesday, 25 September 2018 09:30 (40 minutes)*

**Presenter:** CORREIA, Fagner (TU Dortmund)

**Session Classification:**  $Z'$  and dark photons

Contribution ID: 12

Type: **not specified**

# Oscillations to Dark Photons in Particle Physics Experiments

*Tuesday, 25 September 2018 10:10 (40 minutes)*

**Presenter:** GORBUNOV, Dmitry (Institute for Nuclear Research of RAS)

**Session Classification:**  $Z'$  and dark photons

Contribution ID: 13

Type: **not specified**

## Searching for new physics in coherent neutrino scattering

*Tuesday, 25 September 2018 14:50 (40 minutes)*

**Presenter:** XU, Xunjie (MPIK Heidelberg)

**Session Classification:** Neutrinos

Contribution ID: 14

Type: **not specified**

## Dirac neutrinos and Dark Matter

*Tuesday, 25 September 2018 15:30 (40 minutes)*

**Presenter:** CENTELLES CHULIÁ, Salvador (IFIC Valencia)

**Session Classification:** Neutrinos

Contribution ID: 15

Type: **not specified**

## Search for keV sterile neutrinos

*Tuesday, 25 September 2018 16:40 (40 minutes)*

**Presenter:** SLEZÁK, Martin

**Session Classification:** Neutrinos



Contribution ID: 16

Type: **not specified**

## Overview: Charged lepton flavour experiments

*Wednesday, 26 September 2018 09:30 (50 minutes)*

**Presenter:** BERGER, Nik (U Mainz)

**Session Classification:** Charged lepton flavour violation

Contribution ID: 17

Type: **not specified**

## Exotic muon decays

*Wednesday, 26 September 2018 10:20 (40 minutes)*

**Presenter:** PERREVOORT, Ann-Kathrin (NIKHEF Amsterdam)

**Session Classification:** Charged lepton flavour violation

Contribution ID: **18**

Type: **not specified**

## **Dark Matter in E6 grand unified theories**

*Tuesday, 25 September 2018 17:20 (40 minutes)*

**Presenter:** SCHWICHTENBERG, Jakob (KIT)

**Session Classification:** Neutrinos

Contribution ID: 19

Type: **not specified**

## Dark sector physics with photons in Belle II

*Tuesday, 25 September 2018 11:20 (40 minutes)*

**Presenter:** CUNLIFFE, Sam (DESY)

**Session Classification:**  $Z'$  and dark photons

Contribution ID: 20

Type: **not specified**

# Dark sector physics with charged final states in Belle II

*Tuesday, 25 September 2018 12:00 (40 minutes)*

**Presenter:** INGUGLIA, Gianluca (ÖAW)

**Session Classification:**  $Z'$  and dark photons

Contribution ID: 21

Type: **not specified**

## **Search for hidden-photon dark matter with FUNK: status and perspectives**

*Tuesday, 25 September 2018 14:10 (40 minutes)*

**Presenter:** ANDRIANAVALOMAHEFA, Arnaud

**Session Classification:**  $Z'$  and dark photons