

Implications of LHCb measurements and future prospects

Report of Contributions

Contribution ID: 1

Type: **not specified**

EW physics and direct searches

Contribution ID: 2

Type: **not specified**

Welcome

Wednesday 19 October 2022 09:00 (15 minutes)

Presenter: AMHIS, Yasmine Sara (IJCLab/CERN)

Session Classification: Welcome

Contribution ID: 3

Type: **not specified**

LHCb Introduction

Wednesday 19 October 2022 09:15 (30 minutes)

Presenter: FONTANA, Marianna (Centre National de la Recherche Scientifique (FR))

Session Classification: Welcome

Contribution ID: 4

Type: **not specified**

LFU measurements at LHCb

Wednesday 19 October 2022 15:00 (20 minutes)

Presenter: KLAVER, Suzanne (Nikhef National institute for subatomic physics (NL))

Session Classification: Flavour changing charged currents

Contribution ID: 5

Type: **not specified**

Cabibbo angle anomaly: statistical assessment & New Physics interpretations

Wednesday 19 October 2022 15:30 (20 minutes)

Presenter: PASSEMAR, Emilie

Session Classification: Flavour changing charged currents

Contribution ID: 6

Type: **not specified**

SL measurements at LHCb - focus on V_{cb}

Wednesday 19 October 2022 16:10 (20 minutes)

Presenter: DELANEY, Blaise Raheem (Massachusetts Inst. of Technology (US))

Session Classification: Flavour changing charged currents

Contribution ID: 7

Type: **not specified**

V_{ub} **exclusive**

Wednesday 19 October 2022 17:10 (20 minutes)

Presenters: VITTORIO, L.; VITTORIO, Ludovico (SNS, Pisa)

Session Classification: Flavour changing charged currents

Contribution ID: **8**

Type: **not specified**

$$b \rightarrow c\ell\nu \text{ \& } V_{cb}$$

Wednesday 19 October 2022 16:35 (30 minutes)

Presenter: JUNG, Martin (Università di Torino & INFN)

Session Classification: Flavour changing charged currents

Contribution ID: 9

Type: **not specified**

Experimental overview of charm

Wednesday 19 October 2022 09:45 (25 minutes)

Presenter: PIETRZYK, Guillaume Max (IJCLab (Orsay, FR))

Session Classification: Mixing and CP violation

Contribution ID: **10**

Type: **not specified**

Systematics of U-spin Amplitude Sum Rules

Wednesday 19 October 2022 10:20 (20 minutes)

Presenter: GAVRILOVA, Margarita (Cornell)

Session Classification: Mixing and CP violation

Contribution ID: 11

Type: **not specified**

Direct A_{CP} from charm final state interactions

Wednesday 19 October 2022 10:47 (20 minutes)

Presenter: MAGALHAES, Patricia (CBPF - Brazilian Center for Physics Research (BR))

Session Classification: Mixing and CP violation

Contribution ID: 12

Type: **not specified**

Experimental overview of beauty

Wednesday 19 October 2022 11:45 (25 minutes)

Presenter: LI, Peilian (CERN)

Session Classification: Mixing and CP violation

Contribution ID: 13

Type: **not specified**

NNLO for B Mixing

Wednesday 19 October 2022 12:20 (20 minutes)

Presenter: SHTABOVENKO, Vladyslav (Ludwig-Maximilians-Univ. Muenchen (DE))

Session Classification: Mixing and CP violation

Contribution ID: 14

Type: **not specified**

CP violating NP in $B(s) \rightarrow D(s)K$

Wednesday 19 October 2022 12:47 (20 minutes)

Presenter: MALAMI, Eleftheria

Session Classification: Mixing and CP violation

Contribution ID: 15

Type: **not specified**

Final discussion

Wednesday 19 October 2022 17:35 (25 minutes)

Session Classification: Flavour changing charged currents

Contribution ID: 16

Type: **not specified**

New pentaquark states at LHCb

Thursday 20 October 2022 09:00 (20 minutes)

Presenter: POLYAKOV, Ivan (CERN)

Session Classification: QCD spectroscopy and exotic hadrons

Contribution ID: 17

Type: **not specified**

Tetraquark studies at LHCb

Thursday 20 October 2022 09:25 (20 minutes)

Presenter: JIANG, Yi (University of Chinese Academy of Sciences (CN))

Session Classification: QCD spectroscopy and exotic hadrons

Contribution ID: **18**

Type: **not specified**

Methods to explore the nature of the new exotic resonances from data

Thursday 20 October 2022 09:50 (20 minutes)

Presenter: Dr ALBALADEJO SERRANO, Miguel (Universidad de Murcia)

Session Classification: QCD spectroscopy and exotic hadrons

Contribution ID: 19

Type: **not specified**

Hadronic resonances and exotics from lattice QCD

Thursday 20 October 2022 10:45 (20 minutes)

Presenter: LIU, Liuming (Institute of Modern Physics, Chinese Academy of Sciences)

Session Classification: QCD spectroscopy and exotic hadrons

Contribution ID: 20

Type: **not specified**

Conventional spectroscopy at LHCb

Thursday 20 October 2022 11:10 (20 minutes)

Presenter: WANG, Mengzhen (Università degli Studi e INFN Milano (IT))

Session Classification: QCD spectroscopy and exotic hadrons

Contribution ID: 21

Type: **not specified**

Overview of rare B decays

Thursday 20 October 2022 13:35 (20 minutes)

Presenter: LANGENBRUCH, Christoph Michael (Rheinisch Westfaelische Tech. Hoch. (DE))

Session Classification: Flavour Changing Neutral Currents

Contribution ID: 22

Type: **not specified**

Lepton Flavour Violation

Thursday 20 October 2022 14:00 (20 minutes)

Presenter: BATTIG, Alexander (Technische Universitaet Dortmund (DE))

Session Classification: Flavour Changing Neutral Currents

Contribution ID: 23

Type: **not specified**

$K \rightarrow \mu\mu$ as probe for NP

Thursday 20 October 2022 14:25 (15 minutes)

Presenter: SCHACHT, Stefan (University of Manchester)

Session Classification: Flavour Changing Neutral Currents

Contribution ID: 24

Type: **not specified**

Progress on QCD corrections to $b \rightarrow sll$

Thursday 20 October 2022 14:45 (20 minutes)

Presenter: REBOUD, Meril

Session Classification: Flavour Changing Neutral Currents

Contribution ID: 25

Type: **not specified**

Rare Charm and Strange results

Thursday 20 October 2022 15:10 (20 minutes)

Presenter: FERNANDEZ GOMEZ, Miguel (Universidade de Santiago de Compostela (ES))

Session Classification: Flavour Changing Neutral Currents

Contribution ID: 26

Type: **not specified**

Decays of rare charmed baryons

Thursday 20 October 2022 16:05 (20 minutes)

Presenter: HILLER, Gudrun (Technische Universitaet Dortmund (DE))

Session Classification: Flavour Changing Neutral Currents

Contribution ID: 27

Type: **not specified**

Overview of BSM models

Thursday 20 October 2022 16:30 (20 minutes)

Presenter: Prof. ALLANACH, Benjamin (University of Cambridge (GB))

Session Classification: Model building for flavor physics

Contribution ID: 28

Type: **not specified**

Neutral current anomalies and alps

Thursday 20 October 2022 17:00 (20 minutes)

Presenter: PESTANADALUZ, Maria

Session Classification: Model building for flavor physics

Contribution ID: 29

Type: **not specified**

Flavor and mass hierarchies from extra dim

Friday 21 October 2022 09:00 (20 minutes)

Presenter: SELIMOVIC, Nudzeim

Session Classification: Model building for flavor physics

Contribution ID: **30**

Type: **not specified**

On a model with two scalar leptoquarks R2 and S3

Friday 21 October 2022 09:25 (20 minutes)

Presenter: JAFFREDO, Florentin (CNRS)

Session Classification: Model building for flavor physics

Contribution ID: 31

Type: **not specified**

Bridge solutions for (g-2) and $b \rightarrow s\ell\ell$ anomalies

Friday 21 October 2022 09:50 (20 minutes)

Presenter: OLGOSO, Pablo

Session Classification: Model building for flavor physics

Contribution ID: 32

Type: **not specified**

Muonic forces and flavor universality

Friday 21 October 2022 10:15 (20 minutes)

Presenter: THOMSEN, Anders Eller (Universität Bern)

Session Classification: Model building for flavor physics

Contribution ID: 33

Type: **not specified**

Experimental Overview: EW+Direct

Friday 21 October 2022 11:10 (20 minutes)

Presenter: BARTER, William (University of Edinburgh)

Session Classification: EW physics and direct searches

Contribution ID: 34

Type: **not specified**

W-mass Theory Overview

Friday 21 October 2022 11:35 (20 minutes)

Presenter: BAGNASCHI, Emanuele Angelo (CERN)

Session Classification: EW physics and direct searches

Contribution ID: 35

Type: **not specified**

W mass measurement plans

Friday 21 October 2022 12:00 (20 minutes)

Presenter: HUNTER, Ross John (University of Warwick (GB))

Session Classification: EW physics and direct searches

Contribution ID: 36

Type: **not specified**

Theory Overview: High-pT Searches for Flavor

Friday 21 October 2022 14:00 (20 minutes)

Presenter: HAISCH, Uli

Session Classification: EW physics and direct searches

Contribution ID: 37

Type: **not specified**

Drell-Yan tails as a probe of New Physics

Friday 21 October 2022 14:25 (20 minutes)

Presenter: ALLWICHER, Lukas

Session Classification: EW physics and direct searches

Contribution ID: 38

Type: **not specified**

Z boson production in pp and pPb

Friday 21 October 2022 14:50 (20 minutes)

Presenter: LI, Hengne (South China Normal University (CN))

Session Classification: EW physics and direct searches

Contribution ID: 39

Type: **not specified**

Understanding QCD exotics using deep neural networks

Thursday 20 October 2022 11:35 (20 minutes)

Presenter: FERNANDEZ RAMIREZ, Cesar (UNAM)

Session Classification: QCD spectroscopy and exotic hadrons

Contribution ID: 40

Type: **not specified**

Satellite discussion - unfolded distributions of semi-leptonic decays

Thursday 20 October 2022 12:15 (1 hour)

Presenters: SMITH, Mark (Imperial College (GB)); CALVI, Marta (Univ. degli Studi Milano-Bicocca)

Contribution ID: 41

Type: **not specified**

$R(D)$ and $R(D^*)$

Wednesday 19 October 2022 14:30 (20 minutes)

Presenter: Dr HAMILTON, Phoebe (University of Maryland (US))

Session Classification: Flavour changing charged currents

Contribution ID: 42

Type: **not specified**

wrap-up

Friday 21 October 2022 16:45 (2 minutes)

Presenter: AMHIS, Yasmine Sara (IJCLab/CERN)