

Implications of LHCb measurements and future prospects

Report of Contributions

Contribution ID: 1

Type: **not specified**

Introduction

Wednesday 12 October 2016 09:00 (15 minutes)

Presenter: VAGNONI, Vincenzo (CERN and INFN Bologna)

Session Classification: Welcome and introduction

Contribution ID: 2

Type: **not specified**

Status and prospects with γ at LHCb

Thursday 13 October 2016 08:45 (25 minutes)

Presenter: JOHNSON, Daniel (CERN)

Session Classification: CP violation in Beauty and Charm

Contribution ID: 3

Type: **not specified**

CP violation in baryons: experimental results and prospects

Thursday 13 October 2016 09:10 (20 minutes)

Presenter: NERI, Nicola (Università degli Studi e INFN Milano (IT))

Session Classification: CP violation in Beauty and Charm

Contribution ID: 4

Type: **not specified**

CP violation in baryons: theoretical perspective

Thursday 13 October 2016 09:30 (20 minutes)

Presenter: DURIEUX, Gauthier (DESY)

Session Classification: CP violation in Beauty and Charm

Contribution ID: 5

Type: **not specified**

Time-dependent CP violation: experimental results and prospects

Thursday 13 October 2016 09:50 (20 minutes)

Presenter: SEYFERT, Paul (Universita & INFN, Milano-Bicocca (IT))

Session Classification: CP violation in Beauty and Charm

Contribution ID: 6

Type: **not specified**

CP violation in three-body B-meson decays

Thursday 13 October 2016 10:40 (20 minutes)

Presenter: VIRTO, Javier (University of Bern)

Session Classification: CP violation in Beauty and Charm

Contribution ID: 7

Type: **not specified**

New strategies with $B_s^0 \rightarrow K^+ K^-$

Thursday 13 October 2016 11:00 (20 minutes)

Presenter: VOS, Keri (Siegen University)

Session Classification: CP violation in Beauty and Charm

Contribution ID: 8

Type: **not specified**

Status and prospects with Lattice calculations

Thursday 13 October 2016 11:40 (20 minutes)

Presenter: HANSEN, Maxwell (Institut für Kernphysik and Helmholtz Institute Mainz, University of Mainz)

Session Classification: CP violation in Beauty and Charm

Contribution ID: 9

Type: **not specified**

CP violation in Charm: experimental results and prospects

Wednesday 12 October 2016 17:00 (20 minutes)

Presenter: DAVIS, Adam (Tsinghua University (CN))

Session Classification: CP violation in Beauty and Charm

Contribution ID: **10**

Type: **not specified**

CP violation in Charm: theoretical perspective

Wednesday 12 October 2016 17:20 (20 minutes)

Presenter: PETROV, Alexey (Wayne State University)

Session Classification: CP violation in Beauty and Charm

Contribution ID: **11**

Type: **not specified**

Charming new physics in rare B decays and mixing

Thursday 13 October 2016 11:20 (20 minutes)

Presenter: LESLIE, Kirsten (University of Sussex)

Session Classification: CP violation in Beauty and Charm

Contribution ID: 12

Type: **not specified**

Update and prospects on $R(X_c)$ at LHCb

Wednesday 12 October 2016 09:15 (30 minutes)

Presenter: CIEZAREK, Gregory Max (Nikhef National institute for subatomic physics (NL))

Session Classification: Semileptonic and rare decays of Beauty, Charm and Strange

Contribution ID: 13

Type: **not specified**

Angular observables in semitauonic B decays

Wednesday 12 October 2016 09:45 (30 minutes)

Presenter: MARTIN CAMALICH, Jorge (Johannes Universitat Mainz)

Session Classification: Semileptonic and rare decays of Beauty, Charm and Strange

Contribution ID: 14

Type: **not specified**

Impact of leptonic τ decays on the distribution of $B \rightarrow P_{\mu\nu}$ decays and radiative corrections to $R(K)$ and $R(K^*)$

Wednesday 12 October 2016 10:15 (30 minutes)

Presenter: BORDONE, Marzia (University of Zurich)

Session Classification: Semileptonic and rare decays of Beauty, Charm and Strange

Contribution ID: 15

Type: **not specified**

Latest LHCb results and prospects on very rare decays in beauty, strange and charm

Wednesday 12 October 2016 14:50 (30 minutes)

Presenter: CHOBANOVA, Veronika Georgieva (Universidade de Santiago de Compostela (ES))

Session Classification: Semileptonic and rare decays of Beauty, Charm and Strange

Contribution ID: **16**

Type: **not specified**

Rare charm decays in the SM and beyond

Wednesday 12 October 2016 15:20 (25 minutes)

Presenter: DE BOER, Stefan (TU Dortmund)

Session Classification: Semileptonic and rare decays of Beauty, Charm and Strange

Contribution ID: 17

Type: **not specified**

Radiative and EW-penguin decays and LFU tests

Wednesday 12 October 2016 11:15 (30 minutes)

Presenter: PETRIDIS, Konstantinos (University of Bristol (GB))

Session Classification: Semileptonic and rare decays of Beauty, Charm and Strange

Contribution ID: **18**

Type: **not specified**

Next steps and challenges in global fits for Run 2

Wednesday 12 October 2016 11:45 (25 minutes)

Presenter: MAHMOUDI, Nazila (CERN and Lyon University (FR))

Session Classification: Semileptonic and rare decays of Beauty, Charm and Strange

Contribution ID: 19

Type: **not specified**

Power corrections in $b \rightarrow sll$: what is known and what not

Wednesday 12 October 2016 12:10 (25 minutes)

Presenter: MANNEL, Thomas (Siegen University)

Session Classification: Semileptonic and rare decays of Beauty, Charm and Strange

Contribution ID: 20

Type: **not specified**

Next steps with LHCb's $b \rightarrow sll$ data at low recoil

Wednesday 12 October 2016 14:00 (25 minutes)

Presenter: NISANDZIC, Ivan (Technische Universitat Dortmund)

Session Classification: Semileptonic and rare decays of Beauty, Charm and Strange

Contribution ID: 21

Type: **not specified**

New tests of LFU in $b \rightarrow sll$ decays

Wednesday 12 October 2016 14:25 (25 minutes)

Presenter: CAPDEVILA, Bernat (Universitat Autònoma de Barcelona and IFAE)

Session Classification: Semileptonic and rare decays of Beauty, Charm and Strange

Contribution ID: 22

Type: **not specified**

Experimental signatures at LHCb from NP models addressing the B-anomalies

Wednesday 12 October 2016 16:15 (30 minutes)

Presenter: CRIVELLIN, Andreas (Paul Scherrer Institut (CH))

Session Classification: Semileptonic and rare decays of Beauty, Charm and Strange

Contribution ID: 23

Type: **not specified**

Physics with electroweak bosons in the forward direction at LHCb

Thursday 13 October 2016 13:30 (20 minutes)

Presenter: MUELLER, Katharina (Universitaet Zuerich (CH))

Session Classification: Not only flavour: precision measurements and new physics searches in the forward region

Contribution ID: 24

Type: **not specified**

Beauty-quark and Charm-quark pair production asymmetries at LHCb

Thursday 13 October 2016 14:10 (20 minutes)

Presenter: GAULD, Rhorry (IPPP Durham University)

Session Classification: Not only flavour: precision measurements and new physics searches in the forward region

Contribution ID: 25

Type: **not specified**

Beauty-quark forward-backward and charge asymmetries at hadron colliders

Thursday 13 October 2016 13:50 (20 minutes)

Presenter: MURPHY, Christopher W. (Scuola Normale Superiore, Pisa (IT))

Session Classification: Not only flavour: precision measurements and new physics searches in the forward region

Contribution ID: 26

Type: **not specified**

SUSY searches at LHCb

Thursday 13 October 2016 14:30 (20 minutes)

Presenter: DE AGUIAR FRANCISCO, Oscar Augusto (University of Liverpool (GB))

Session Classification: Not only flavour: precision measurements and new physics searches in the forward region

Contribution ID: 27

Type: **not specified**

Searching for new spin-0 resonances at LHC

Thursday 13 October 2016 14:50 (20 minutes)

Presenter: FESEL KAMENIK, Jernej (Jozef Stefan Institute (SI))

Session Classification: Not only flavour: precision measurements and new physics searches in the forward region

Contribution ID: 28

Type: **not specified**

Measuring quark polarizations via baryons at ATLAS, CMS and LHCb

Thursday 13 October 2016 15:30 (20 minutes)

Presenter: KATS, Yevgeny (Weizmann Institute of Science)

Session Classification: Not only flavour: precision measurements and new physics searches in the forward region

Contribution ID: 29

Type: **not specified**

On the Charm Contribution to the Atmospheric Neutrino Flux

Thursday 13 October 2016 15:50 (20 minutes)

Presenter: WILLE, Logan (University of Wisconsin)

Session Classification: Not only flavour: precision measurements and new physics searches in the forward region

Contribution ID: 30

Type: **not specified**

Dark Photon searches at LHCb

Thursday 13 October 2016 16:10 (20 minutes)

Presenter: WILLIAMS, J Michael (Massachusetts Inst. of Technology (US))

Session Classification: Not only flavour: precision measurements and new physics searches in the forward region

Contribution ID: **31**

Type: **not specified**

Spectroscopy at LHCb

Thursday 13 October 2016 16:50 (25 minutes)

Presenter: PAPPAGALLO, Marco (Universita e INFN, Bari (IT))

Session Classification: Puzzles in QCD and spectroscopy with heavy flavours

Contribution ID: 32

Type: **not specified**

Overview of exotic charmonia states

Thursday 13 October 2016 17:15 (25 minutes)

Presenter: MAIANI, Luciano (Universita e INFN, Roma I (IT))

Session Classification: Puzzles in QCD and spectroscopy with heavy flavours

Contribution ID: 33

Type: **not specified**

Open Charm Spectroscopy

Thursday 13 October 2016 17:40 (20 minutes)

Presenter: DE FAZIO, Fulvia (INFN Bari)

Session Classification: Puzzles in QCD and spectroscopy with heavy flavours

Contribution ID: 34

Type: **not specified**

Heavy-flavour spectroscopy and exotic states from Lattice QCD

Thursday 13 October 2016 18:00 (20 minutes)

Presenter: MOIR, Graham (University of Cambridge)

Session Classification: Puzzles in QCD and spectroscopy with heavy flavours

Contribution ID: 35

Type: **not specified**

Amplitude analysis methods

Presenter: SZCZEPANIAK, Adam (Indiana University and JLAB)

Session Classification: Puzzles in QCD and spectroscopy with heavy flavours

Contribution ID: **36**

Type: **not specified**

Production at LHCb

Friday 14 October 2016 09:00 (20 minutes)

Presenter: ZHANG, Yanxi (Universite de Paris-Sud 11 (FR))

Session Classification: Puzzles in QCD and spectroscopy with heavy flavours

Contribution ID: 37

Type: **not specified**

Quarkonium-like states near threshold

Friday 14 October 2016 09:20 (20 minutes)

Presenter: EICHTEN, Estia (Fermilab)

Session Classification: Puzzles in QCD and spectroscopy with heavy flavours

Contribution ID: 38

Type: **not specified**

Selection rules for exotic states

Friday 14 October 2016 09:40 (20 minutes)

Presenter: ESPOSITO, Angelo (Columbia University (US))

Session Classification: Puzzles in QCD and spectroscopy with heavy flavours

Contribution ID: 39

Type: **not specified**

Heavy hybrids

Friday 14 October 2016 10:00 (20 minutes)

Presenter: TARRUS, Jaume (Technical University of Munich (DE))

Session Classification: Puzzles in QCD and spectroscopy with heavy flavours

Contribution ID: 40

Type: **not specified**

Lattice QCD in heavy flavour: status and long-term prospects

Friday 14 October 2016 11:00 (1 hour)

Presenter: VAN DE WATER, Ruth (Fermilab)

Session Classification: Keynote session

Contribution ID: 41

Type: **not specified**

Flavour physics outlook

Friday 14 October 2016 12:00 (1 hour)

Presenter: STRAUB, David (Excellence Cluster Universe, Munich)

Session Classification: Keynote session

Contribution ID: 42

Type: **not specified**

Conclusion

Friday 14 October 2016 13:00 (15 minutes)

Presenter: VAGNONI, Vincenzo (CERN and INFN Bologna)

Session Classification: Keynote session

Contribution ID: 43

Type: **not specified**

Discussion

Thursday 13 October 2016 12:00 (30 minutes)

Session Classification: CP violation in Beauty and Charm

Contribution ID: 44

Type: **not specified**

Discussion

Wednesday 12 October 2016 18:00 (20 minutes)

Session Classification: CP violation in Beauty and Charm

Contribution ID: 45

Type: **not specified**

Discussion

Wednesday 12 October 2016 12:35 (25 minutes)

Session Classification: Semileptonic and rare decays of Beauty, Charm and Strange

Contribution ID: 46

Type: **not specified**

Discussion

Wednesday 12 October 2016 16:45 (15 minutes)

Session Classification: Semileptonic and rare decays of Beauty, Charm and Strange

Contribution ID: 47

Type: **not specified**

Discussion

Thursday 13 October 2016 16:30 (20 minutes)

Session Classification: Not only flavour: precision measurements and new physics searches in the forward region

Contribution ID: 48

Type: **not specified**

Discussion

Thursday 13 October 2016 18:20 (25 minutes)

Session Classification: Puzzles in QCD and spectroscopy with heavy flavours

Contribution ID: 49

Type: **not specified**

Discussion

Friday 14 October 2016 10:20 (20 minutes)

Session Classification: Puzzles in QCD and spectroscopy with heavy flavours

Contribution ID: 50

Type: **not specified**

Charm and beauty hadron decays to 3- & 4-body final states

Wednesday 12 October 2016 17:40 (20 minutes)

Presenter: BIGI, Ikaros (University of Notre Dame)

Session Classification: CP violation in Beauty and Charm