

Implications of LHCb measurements and future prospects

Report of Contributions

Contribution ID: 0

Type: **not specified**

Standard Model predictions for the mixing observables ΔM_q , $\Delta\Gamma_q$ and a_{sl}^q

Tuesday 3 November 2015 14:00 (20 minutes)

Presenter: LENZ, Alexander (IPPP, Durham)

Session Classification: CP violation

Contribution ID: 1

Type: **not specified**

Experimental overview of recent mixing and CPV results in semileptonic decays

Tuesday 3 November 2015 14:20 (17 minutes)

Presenter: GRILLO, Lucia (Ruprecht-Karls-Universitaet Heidelberg (DE))

Session Classification: CP violation

Contribution ID: 2

Type: **not specified**

Mixing in charm physics

Tuesday 3 November 2015 14:37 (17 minutes)

Presenter: SILVESTRINI, Luca (INFN Rome)

Session Classification: CP violation

Contribution ID: 3

Type: **not specified**

Predictions and correlations of CPV observables in the D system in supersymmetric context and possible model independent correlations

Tuesday 3 November 2015 14:54 (17 minutes)

Presenter: GHOSH, Diptimoy (INFN, Rome)

Session Classification: CP violation

Contribution ID: 4

Type: **not specified**

Recent predictions for
 $A_{CP}(D^0 \rightarrow K^+K^-), A_{CP}(D^0 \rightarrow \pi^+\pi^-)$ **and**
 $A_{CP}(D^0 \rightarrow K_S K_S)$

Tuesday 3 November 2015 15:11 (17 minutes)

Presenter: SCHACHT, Stefan (TU Dortmund)

Session Classification: CP violation

Contribution ID: 6

Type: **not specified**

Penguin pollution in $B \rightarrow J/\psi X$ decays

Thursday 5 November 2015 09:00 (20 minutes)

Presenter: JUNG, Martin (TU Dortmund)

Session Classification: CP violation

Contribution ID: 7

Type: **not specified**

Experimental overview of measurements of mixing phases and CPV results with $B \rightarrow J/\psi X$ decays

Thursday 5 November 2015 09:20 (17 minutes)

Presenter: AKAR, Simon (CPPM, Aix-Marseille Université, CNRS/IN2P3, Marseille, France)

Session Classification: CP violation

Contribution ID: 8

Type: **not specified**

Multibody hadronic decays

Thursday 5 November 2015 09:37 (20 minutes)

Presenter: BHATTACHARYA, Bhubanjyoti (University of Montreal)

Session Classification: CP violation

Contribution ID: **10**

Type: **not specified**

Possible new physics effects in tree-level decays and its implications for the precision in the CKM angle γ

Thursday 5 November 2015 11:00 (20 minutes)

Presenter: TETLALMATZI-XOLOCOTZI, Gilberto (IPPP Durham)

Session Classification: CP violation

Contribution ID: 11

Type: **not specified**

CP-violation measurements in $B \rightarrow DX$ decays

Thursday 5 November 2015 11:20 (17 minutes)

Presenter: TELLARINI, Giulia (Universita di Ferrara & INFN (IT))

Session Classification: CP violation

Contribution ID: 12

Type: **not specified**

Probing CP violation systematically in differential distributions

Thursday 5 November 2015 10:14 (17 minutes)

Presenter: DURIEUX, Gauthier (CP3 - UCLouvain)

Session Classification: CP violation

Contribution ID: 13

Type: **not specified**

$|V_{ub}|$ at LHCb: measurements and future prospects

Wednesday 4 November 2015 09:05 (30 minutes)

Presenter: OWEN, Patrick Haworth (Imperial College Sci., Tech. & Med. (GB))

Session Classification: Semileptonics

Contribution ID: 14

Type: **not specified**

Lattice progress for semi-leptonic decays

Wednesday 4 November 2015 09:35 (25 minutes)

Presenter: MEINEL, Stefan (University of Arizona / RIKEN BNL Research Center)

Session Classification: Semileptonics

Contribution ID: 15

Type: **not specified**

Progress in $|V_{ub}|$ (non-lattice)

Wednesday 4 November 2015 10:00 (25 minutes)

Presenter: VAN DYK, Danny (Siegen University)

Session Classification: Semileptonic

Contribution ID: 16

Type: **not specified**

$B \rightarrow \pi \ell \ell$ at large recoil: theory vs LHCb measurement

Wednesday 4 November 2015 10:25 (20 minutes)

Presenter: RUSOV, Aleksey (Siegen University)

Session Classification: Semileptonic

Contribution ID: 17

Type: **not specified**

Recent theory progress and prospects towards improving the precision on $|V_{cb}|$

Wednesday 4 November 2015 17:10 (25 minutes)

Presenters: HEALEY, Kristopher (Wayne State University); HEALEY, Kristopher; HEALEY, Kristopher (INFN - National Institute for Nuclear Physics)

Session Classification: Semileptonic

Contribution ID: **18**

Type: **not specified**

New physics in baryonic b to c modes

Wednesday 4 November 2015 17:35 (25 minutes)

Presenter: DATTA, Alakabha (University of Mississippi)

Session Classification: Semileptonics

Contribution ID: 19

Type: **not specified**

LHCb results on $B \rightarrow D^* \tau \nu$ and Vcb and future prospects

Wednesday 4 November 2015 16:15 (30 minutes)

Presenter: KHANJI, Basem (Universita & INFN, Milano-Bicocca (IT))

Session Classification: Semileptonic

Contribution ID: 20

Type: **not specified**

Flavor models for $B \rightarrow D^{(*)} \tau \nu$

Wednesday 4 November 2015 16:45 (25 minutes)

Presenter: LIGETI, Zoltan (Lawrence Berkeley National Lab. (US))

Session Classification: Semileptonic

Contribution ID: 21

Type: **not specified**

Perspectives from a model builder

Thursday 5 November 2015 11:40 (45 minutes)

Presenter: SCHMALTZ, Martin

Session Classification: Closing

Contribution ID: 22

Type: **not specified**

Goodbye

Thursday 5 November 2015 12:25 (5 minutes)

Presenter: KOPPENBURG, Patrick (Nikhef National institute for subatomic physics (NL))

Session Classification: Closing

Contribution ID: 23

Type: **not specified**

Introduction

Tuesday 3 November 2015 09:00 (30 minutes)

Presenter: KOPPENBURG, Patrick (Nikhef National institute for subatomic physics (NL))

Session Classification: Welcome and Introduction

Contribution ID: 24

Type: **not specified**

Constraining PDFs at high and low-x with LHCb data

Tuesday 3 November 2015 16:30 (30 minutes)

Presenter: GAULD, Rhorry (IPPP Durham University)

Session Classification: Exotica & EW

Contribution ID: 25

Type: **not specified**

Recent EW Measurements at LHCb

Tuesday 3 November 2015 17:00 (25 minutes)

Presenter: WALLACE, Ronan James (University College Dublin (IE))

Session Classification: Exotica & EW

Contribution ID: 26

Type: **not specified**

Searches for exotica at LHCb

Tuesday 3 November 2015 17:25 (25 minutes)

Presenter: SESTINI, Lorenzo (Universita e INFN, Padova (IT))

Session Classification: Exotica & EW

Contribution ID: 27

Type: **not specified**

Implications of low-scale strong dynamics at the LHCb Experiment

Tuesday 3 November 2015 17:50 (25 minutes)

Presenter: STOLARSKI, Daniel (CERN)

Session Classification: Exotica & EW

Contribution ID: 28

Type: **not specified**

Higgs-flavour and direct sensitivity to New Physics at LHCb

Wednesday 4 November 2015 11:15 (30 minutes)

Presenters: KAGAN, Alex (University of Cincinnati (US)); KAGAN, Alexander (university of Cincinnati)

Session Classification: Exotica & EW

Contribution ID: 29

Type: **not specified**

Top and W+b/c jets results at LHCb

Wednesday 4 November 2015 11:45 (25 minutes)

Presenter: COCO, Victor (CERN)

Session Classification: Exotica & EW

Contribution ID: **30**

Type: **not specified**

Prospects for Measuring the W boson mass at LHCb

Wednesday 4 November 2015 12:10 (25 minutes)

Presenter: VICINI, Alessandro (Università degli Studi e INFN Milano (IT))

Session Classification: Exotica & EW

Contribution ID: 31

Type: **not specified**

Search for hidden-sector bosons in $B^0 \rightarrow K^* \chi (\rightarrow \mu\mu)$ decays

Wednesday 4 November 2015 12:35 (25 minutes)

Primary author: PATEL, Mitesh (Imperial College Sci., Tech. & Med. (GB))

Presenters: MAURI, Andrea (UZH); PATEL, Mitesh (Imperial College Sci., Tech. & Med. (GB))

Session Classification: Exotica & EW

Contribution ID: 32

Type: **not specified**

Overview of the LHCb $b \rightarrow sll$ measurements

Presenter: CUNLIFFE, Sam (Imperial College Sci., Tech. & Med. (GB))

Contribution ID: 33

Type: **not specified**

Overview of the LHCb results in $b \rightarrow sll$

Tuesday 3 November 2015 09:30 (30 minutes)

Presenter: CUNLIFFE, Sam (Imperial College Sci., Tech. & Med. (GB))

Session Classification: Rare Decays

Contribution ID: 34

Type: **not specified**

Treatment of QCD errors in SM predictions of $B \rightarrow K^* \mu \mu$

Tuesday 3 November 2015 11:30 (20 minutes)

Presenters: MATIAS, Joaquim (Universitat Autònoma Barcelona); MATIAS, Joaquim (Universitat Autònoma Barcelona)

Session Classification: Rare Decays

Contribution ID: 35

Type: **not specified**

Extracting QCD corrections from data

Tuesday 3 November 2015 11:10 (20 minutes)

Presenter: VALLI, Mauro

Session Classification: Rare Decays

Contribution ID: 36

Type: **not specified**

Overview of the global fits of $b \rightarrow s \ell \ell$ data

Tuesday 3 November 2015 10:50 (20 minutes)

Presenter: BOBETH, Christoph (Technical University Munich)

Session Classification: Rare Decays

Contribution ID: 37

Type: **not specified**

SM errors in $B^0 \rightarrow K \mu \mu$

Tuesday 3 November 2015 11:50 (20 minutes)

Presenters: JAGER, Sebastian (Unknown); JÄGER, Sebastian (Munich University)

Session Classification: Rare Decays

Contribution ID: **38**

Type: **not specified**

Discussion

Tuesday 3 November 2015 12:10 (50 minutes)

Session Classification: Rare Decays

Contribution ID: 39

Type: **not specified**

Overview of LHCb results in LUV and LFV

Wednesday 4 November 2015 14:00 (15 minutes)

Presenter: HARRISON, Jon (University of Manchester (GB))

Session Classification: Rare Decays

Contribution ID: 40

Type: **not specified**

Two-Higgs-doublet models for radiative B decays

Wednesday 4 November 2015 14:15 (15 minutes)

Presenter: LI, Xin-Qiang

Session Classification: Rare Decays

Contribution ID: 41

Type: **not specified**

EWP Λ_b^0 decays

Wednesday 4 November 2015 14:30 (15 minutes)

Presenter: VAN DYK, Danny (Siegen University)

Session Classification: Rare Decays

Contribution ID: 42

Type: **not specified**

Partial and Higher moments for $B \rightarrow K\mu\mu$

Tuesday 3 November 2015 10:00 (20 minutes)

Presenter: ZWICKY, Roman (edinburgh university)

Session Classification: Rare Decays

Contribution ID: 43

Type: **not specified**

Link between EWP anomalies and semi-leptonic decays

Wednesday 4 November 2015 14:45 (15 minutes)

Presenters: ISIDORI, Gino (Universitaet Zuerich (CH)); ISIDORI, Gino (Unknown)

Session Classification: Rare Decays

Contribution ID: 44

Type: **not specified**

Flavour anomalies interpretations

Wednesday 4 November 2015 15:00 (15 minutes)

Presenter: D'AMBROSIO, Giancarlo (Universita e INFN, Napoli (IT))

Session Classification: Rare Decays

Contribution ID: 45

Type: **not specified**

Discussion

Wednesday 4 November 2015 15:15 (30 minutes)

Session Classification: Rare Decays