

**Implications of LHCb
measurements and future
prospects**

Report of Contributions

Contribution ID: 0

Type: **not specified**

Welcome

Monday 14 October 2013 09:00 (15 minutes)

Session Classification: Welcome and introductory talk

Contribution ID: 1

Type: **not specified**

Flavour Physics beyond the SM

Monday 14 October 2013 09:15 (30 minutes)

Presenter: ZUPAN, Jure (University of Cincinnati)

Session Classification: Welcome and introductory talk

Contribution ID: 2

Type: **not specified**

Interplay between flavour and LHC high pT physics

Tuesday 15 October 2013 11:15 (30 minutes)

Presenter: SHADMI, Yael

Session Classification: Interplay session

Contribution ID: 3

Type: **not specified**

Flavoured Higgs physics

Tuesday 15 October 2013 11:50 (30 minutes)

Presenter: HARNIK, Roni (Fermilab)

Session Classification: Interplay session

Contribution ID: 4

Type: **not specified**

Flavour physics on the Lattice

Tuesday 15 October 2013 12:25 (30 minutes)

Presenter: JUETTNER, Andreas

Session Classification: Interplay session

Contribution ID: 5

Type: **not specified**

Summary & outlook

Wednesday 16 October 2013 15:15 (25 minutes)

Presenter: Prof. STONE, Sheldon (Syracuse University (US))

Session Classification: Summary and closing

Contribution ID: 6

Type: **not specified**

Status of Lepton Flavour Violation

Wednesday 16 October 2013 14:29 (23 minutes)

Presenter: PARADISI, Paride (CERN)

Session Classification: Rare decays

Contribution ID: 7

Type: **not specified**

Correlations between Flavor Observables in Models with tree-level FCNC's

Wednesday 16 October 2013 14:52 (23 minutes)

Presenter: GIRRBACH, Jennifer (Technical University Munich)

Session Classification: Rare decays

Contribution ID: 8

Type: **not specified**

Theory implications and New Physics from $B \rightarrow K^* \ell$

Tuesday 15 October 2013 14:45 (15 minutes)

Presenter: Dr MATIAS, Joaquim (Universitat Autònoma de Barcelona)

Session Classification: Rare decays

Contribution ID: 9

Type: **not specified**

Update on Lattice QCD results relevant for Rare Decays at LHCb

Wednesday 16 October 2013 14:00 (25 minutes)

Presenter: Dr WINGATE, Matthew (University of Cambridge)

Session Classification: Rare decays

Contribution ID: **10**

Type: **not specified**

Bayesian constraints on Wilson coefficients from radiative and semi-leptonic $b \rightarrow s$ decays

Tuesday 15 October 2013 15:00 (15 minutes)

Presenter: VAN DYK, Danny (TU Dortmund)

Session Classification: Rare decays

Contribution ID: 11

Type: **not specified**

B->(K,K*,phi) l+l- from LHCb: Angular analyses and isospin asymmetries

Tuesday 15 October 2013 14:00 (20 minutes)

Presenter: LANGENBRUCH, Christoph Michael (CERN)

Session Classification: Rare decays

Contribution ID: 12

Type: **not specified**

Rare Decays at LHCb

Monday 14 October 2013 11:15 (25 minutes)

Presenter: VAZQUEZ GOMEZ, Ricardo (Istituto Nazionale Fisica Nucleare (IT))

Session Classification: Rare decays

Contribution ID: 13

Type: **not specified**

Photon polarisation in $b \rightarrow s + \gamma^*$ decays

Monday 14 October 2013 11:45 (18 minutes)

Presenter: KOU, Emi (LAL/IN2P3)

Session Classification: Rare decays

Contribution ID: 14

Type: **not specified**

Theory implications from rare D decays

Monday 14 October 2013 12:08 (18 minutes)

Presenter: KOŠNIK, Nejc (J. Stefan Institute)

Session Classification: Rare decays

Contribution ID: 15

Type: **not specified**

$B \rightarrow K^* \mu^+ \mu^-$ optimized observables and MFV

Monday 14 October 2013 12:31 (18 minutes)

Presenter: MAHMOUDI, Nazila (Universite Blaise Pascal (FR))

Session Classification: Rare decays

Contribution ID: 16

Type: **not specified**

B mixing and CPV in $b \rightarrow s$ penguins

Presenter: GROSSMAN, Yuval (Cornell)

Contribution ID: 17

Type: **not specified**

Measurements of the CP-violating phase φ_s at LHCb

Monday 14 October 2013 10:10 (20 minutes)

Presenter: VAN LEERDAM, Jeroen

Session Classification: CPV in the B system

Contribution ID: **18**

Type: **not specified**

Phenomenology with B_s effective lifetime

Monday 14 October 2013 10:35 (15 minutes)

Presenter: KNEGJENS, Rob (Nikhef)

Session Classification: CPV in the B system

Contribution ID: **19**

Type: **not specified**

Theory uncertainty of gamma from tree decays

Tuesday 15 October 2013 09:00 (20 minutes)

Presenter: BROD, Joachim (TU Munich)

Session Classification: CPV in the B system

Contribution ID: 20

Type: **not specified**

The CKM unitarity triangle angle γ at LHCb (Experiment)

Tuesday 15 October 2013 09:25 (20 minutes)

Presenter: GANDINI, Paolo (Syracuse University (US))

Session Classification: CPV in the B system

Contribution ID: 21

Type: **not specified**

The Full B \rightarrow D* τ ν Angular Distribution and CP violating Triple Products

Tuesday 15 October 2013 09:50 (20 minutes)

Presenter: DURAISAMY, Murugeswaran (University of Mississippi)

Session Classification: CPV in the B system

Contribution ID: 22

Type: **not specified**

B -> D* tau nu (exp.)

Tuesday 15 October 2013 10:15 (20 minutes)

Presenter: CIEZAREK, Gregory Max (Imperial College Sci., Tech. & Med. (GB))

Session Classification: CPV in the B system

Contribution ID: 23

Type: **not specified**

New Physics with $B_s \rightarrow VV$

Wednesday 16 October 2013 11:15 (20 minutes)

Presenter: BHATTACHARYA, Bhubanjyoti (University of Montreal)

Session Classification: CPV in the B system

Contribution ID: 24

Type: **not specified**

Direct CP: charmed and un-charmed

Tuesday 15 October 2013 16:15 (35 minutes)

Presenter: SONI, Amarjit (BNL)

Session Classification: Charm mixing and CP violation

Contribution ID: 25

Type: **not specified**

Final state interaction effect on CP asymmetry in charmless three-body B decays

Wednesday 16 October 2013 12:00 (20 minutes)

Presenter: FREDERICO, Tobias (I)

Session Classification: CPV in the B system

Contribution ID: 26

Type: **not specified**

Charmless three-body B decays

Wednesday 16 October 2013 11:40 (15 minutes)

Presenter: NASTEVA, Irina (CBPF - Brazilian Center for Physics Research (BR))

Session Classification: CPV in the B system

Contribution ID: 27

Type: **not specified**

Charmless two-body B decays

Wednesday 16 October 2013 12:25 (15 minutes)

Presenter: DERKACH, Denis (University of Oxford (GB))

Session Classification: CPV in the B system

Contribution ID: 28

Type: **not specified**

SU(3) anatomy of hadronic charm decays

Tuesday 15 October 2013 16:50 (35 minutes)

Presenter: JUNG, Martin (TU Dortmund)

Session Classification: Charm mixing and CP violation

Contribution ID: 29

Type: **not specified**

Searches for CPV in charm decays

Tuesday 15 October 2013 17:25 (35 minutes)

Presenter: COOMBES, Matt (University of Bristol (GB))

Session Classification: Charm mixing and CP violation

Contribution ID: **30**

Type: **not specified**

Theory overview on charm physics: present status and future prospects

Monday 14 October 2013 14:00 (35 minutes)

Presenter: GROSSMAN, Yuval (Cornell)

Session Classification: Charm mixing and CP violation

Contribution ID: **31**

Type: **not specified**

Charm mixing and indirect CPV

Monday 14 October 2013 14:35 (35 minutes)

Presenter: THOMAS, Christopher (University of Oxford)

Session Classification: Charm mixing and CP violation

Contribution ID: 32

Type: **not specified**

Introduction: complementary searches for new physics with LHCb

Monday 14 October 2013 16:15 (10 minutes)

Presenter: COCO, Victor (NIKHEF (NL))

Session Classification: Forward exotica

Contribution ID: 33

Type: **not specified**

Phenomenology: ttbar measurements with LCHb

Monday 14 October 2013 16:30 (15 minutes)

Presenter: GAULD, Rhorry Graham (University of Oxford (GB))

Session Classification: Forward exotica

Contribution ID: **34**

Type: **not specified**

Theory: top physics at LHCb

Monday 14 October 2013 16:50 (20 minutes)

Presenter: DELAUNAY, Cedric (Unite Reseaux du CNRS (FR))

Session Classification: Forward exotica

Contribution ID: 35

Type: **not specified**

Experiment: current and future jet measurements with LHCb

Monday 14 October 2013 17:15 (15 minutes)

Presenter: BARTER, William James (University of Cambridge (GB))

Session Classification: Forward exotica

Contribution ID: **36**

Type: **not specified**

Theory: heavy flavour jet physics and LHCb

Monday 14 October 2013 17:35 (20 minutes)

Presenter: RODRIGO, German (CSIC)

Session Classification: Forward exotica

Contribution ID: 37

Type: **not specified**

Experiment: current and future searches for long lived particles

Wednesday 16 October 2013 09:00 (15 minutes)

Presenter: DAVID, Pieter (Nikhef (NL))

Session Classification: Forward exotica

Contribution ID: **38**

Type: **not specified**

Theory: long lived particles

Wednesday 16 October 2013 09:20 (20 minutes)

Presenter: Prof. STRASSLER, Matthew (Rutgers University)

Session Classification: Forward exotica

Contribution ID: 39

Type: **not specified**

Experiment: current and future Higgs searches at LHCb

Wednesday 16 October 2013 09:45 (15 minutes)

Presenter: MATTEUZZI, Clara (Universita & INFN, Milano-Bicocca (IT))

Session Classification: Forward exotica

Contribution ID: 40

Type: **not specified**

Theory: light and forward Higgs

Wednesday 16 October 2013 10:05 (20 minutes)

Presenter: Dr DOMINGO, Florian (DESY)

Session Classification: Forward exotica

Contribution ID: 41

Type: **not specified**

Discussion

Wednesday 16 October 2013 10:30 (15 minutes)

Session Classification: Forward exotica

Contribution ID: 42

Type: **not specified**

B mixing and CP violation

Monday 14 October 2013 09:45 (20 minutes)

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

Session Classification: CPV in the B system

Contribution ID: 43

Type: **not specified**

New Physics models facing $b \rightarrow s$ data.

Tuesday 15 October 2013 15:15 (15 minutes)

Presenter: STRAUB, David (Johannes Gutenberg-Universität Mainz)

Session Classification: Rare decays

Contribution ID: 44

Type: **not specified**

Isospin asymmetries in radiative and semi-leptonic b->s decays.

Tuesday 15 October 2013 14:25 (15 minutes)

Presenter: ZWICKY, Roman (edinburgh university)

Session Classification: Rare decays

Contribution ID: 45

Type: **not specified**

Discussion

Tuesday 15 October 2013 15:30 (15 minutes)

Session Classification: Rare decays

Contribution ID: 46

Type: **not specified**

Discussion

Contribution ID: 47

Type: **not specified**

Discussion

Contribution ID: 48

Type: **not specified**

More Flavor SU(3) Tests for CP Violating B Decays

Wednesday 16 October 2013 12:45 (15 minutes)

Presenter: ROBINSON, Dean (Cornell University)

Session Classification: CPV in the B system

Contribution ID: 49

Type: **not specified**

Mixing and CP violation in $D^0 \rightarrow K_S^0 h^0$

Monday 14 October 2013 15:10 (35 minutes)

Presenter: GARRA TICO, Jordi (University of Cambridge (GB))

Session Classification: Charm mixing and CP violation