Implications of LHCb measurements and future prospects

Report of Contributions

Introduction and welcome

Contribution ID: 1 Type: not specified

Introduction and welcome

Wednesday, 17 October 2018 08:30 (5 minutes)

Contribution ID: 2 Type: not specified

LHCb: Experimental overview on measurements with rare decays (25+5)

Wednesday, 17 October 2018 14:00 (30 minutes)

LHCb: Experimental overview on · · ·

Presenter: MARIN BENITO, Carla (Centre National de la Recherche Scientifique (FR))

Session Classification: Semileptonic decays, rare decays, and tests of lepton flavour univer-

sality

Contribution ID: 3 Type: not specified

Angular distributions of rare D decays (15+5)

Wednesday, 17 October 2018 14:30 (20 minutes)

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

Session Classification: Semileptonic decays, rare decays, and tests of lepton flavour univer-

sality

Contribution ID: 4 Type: **not specified**

A gauged horizontal SU(2) symmetry and R_K (15+5)

Wednesday, 17 October 2018 14:50 (20 minutes)

Presenter: GUADAGNOLI, Diego

Session Classification: Semileptonic decays, rare decays, and tests of lepton flavour univer-

sality

Contribution ID: 5 Type: **not specified**

A strategy to determine the $C_{7,8,9,10}(\cdot)$ Wilson coefficients (largely) eliminating hadronic uncertainties (15+5)

Wednesday, 17 October 2018 15:10 (20 minutes)

Presenter: ZWICKY, Roman (edinburgh university)

Session Classification: Semileptonic decays, rare decays, and tests of lepton flavour univer-

sality

Contribution ID: 6 Type: **not specified**

CPV in many-body final states of beauty (& charm) hadrons (25+5)

Thursday, 18 October 2018 10:50 (30 minutes)

Presenter: BIGI, Ikaros (University of Notre Dame)

Session Classification: Mixing and CP violation in Beauty and Charm

Implications of · · · / Report of Contributions

Contribution ID: 7 Type: **not specified**

LHCb: Gamma: $B \to D^0 K^*$ (GLW/ADS) and GGSZ (15+5)

Thursday, 18 October 2018 11:20 (20 minutes)

LHCb: Gamma: $B \to D^0 K^*$ (GL $\,\cdots$

Presenter: HAINES, Susan Carol (University of Cambridge (GB))

Session Classification: Mixing and CP violation in Beauty and Charm

Contribution ID: 8 Type: not specified

Charm rescattering in $B \to KKK$: a new CPV mechanism (20+5)

Thursday, 18 October 2018 11:40 (25 minutes)

Presenter: MAGALHAES, Patricia

Session Classification: Mixing and CP violation in Beauty and Charm

Contribution ID: 9 Type: not specified

LHCb: Time-integrated CPV (15+5)

Thursday, 18 October 2018 12:05 (20 minutes)

LHCb: Time-integrated CPV (15+5)

Presenter: VIEITES DIAZ, Maria (Universidade de Santiago de Compostela (ES))

Session Classification: Mixing and CP violation in Beauty and Charm

Contribution ID: 10 Type: not specified

Gamma from three-body decays (15+5)

Thursday, 18 October 2018 12:25 (20 minutes)

Presenter: BERTHOLET, Emilie (Centre National de la Recherche Scientifique (FR))

Session Classification: Mixing and CP violation in Beauty and Charm

Contribution ID: 11 Type: not specified

Constraints on PDFs and high-energy neutrino cross-sections (25+5)

Wednesday, 17 October 2018 16:00 (30 minutes)

Presenter: Dr ROJO, Juan (VU Amsterdam and Nikhef)

Session Classification: Electroweak physics, heavy flavour production, implications for

(n)PDFs, heavy ions, and exotica searches

Contribution ID: 12 Type: not specified

LHCb: Heavy flavour production (20+5)

Wednesday, 17 October 2018 16:30 (25 minutes)

LHCb: Heavy flavour production · · ·

Presenter: ZHANG, Yanxi (CERN)

Session Classification: Electroweak physics, heavy flavour production, implications for

(n)PDFs, heavy ions, and exotica searches

Contribution ID: 13 Type: not specified

Vector meson photoproduction (25+5)

Wednesday, 17 October 2018 16:55 (30 minutes)

Presenter: GONÇALVES, Victor (Universidade Federal de Pelotas)

Session Classification: Electroweak physics, heavy flavour production, implications for

(n)PDFs, heavy ions, and exotica searches

Contribution ID: 14 Type: not specified

LHCb: Ultraperipheral collisions & Central Exclusive Production (20+5)

Wednesday, 17 October 2018 17:25 (25 minutes)

LHCb: Ultraperipheral collisions · · ·

Presenter: GANDINI, Paolo (INFN Milano (IT))

Session Classification: Electroweak physics, heavy flavour production, implications for

(n)PDFs, heavy ions, and exotica searches

Contribution ID: 15 Type: not specified

What Mixing and Lifetimes can tell us about NP (20+5)

Wednesday, 17 October 2018 10:45 (30 minutes)

Presenter: Mr KIRK, Matthew (IPPP, Durham University)

Session Classification: Mixing and CP violation in Beauty and Charm

Contribution ID: 16 Type: not specified

LHCb; Time-dependent CPV (15+5)

Wednesday, 17 October 2018 11:15 (20 minutes)

Presenter: STEMMLE, Simon Benedikt (Ruprecht Karls Universitaet Heidelberg (DE))

Session Classification: Mixing and CP violation in Beauty and Charm

Contribution ID: 17 Type: not specified

CP violation in Charm decays (20+5) - cancelled

Wednesday, 17 October 2018 11:35 (30 minutes)

Presenter: DE BOER, Stefan

Session Classification: Mixing and CP violation in Beauty and Charm

LHCb: Mixing & time-dependent · · ·

Contribution ID: 18 Type: not specified

LHCb: Mixing & time-dependent CPV in Charm (15+5)

Wednesday, 17 October 2018 12:05 (20 minutes)

Presenter: JURIK, Nathan Philip (University of Oxford (GB))

Session Classification: Mixing and CP violation in Beauty and Charm

Contribution ID: 19 Type: not specified

LHCb: Time-integrated CPV in Charm (15+5)

Wednesday, 17 October 2018 12:25 (20 minutes)

LHCb: Time-integrated CPV in C · · ·

Presenter: BETTI, Federico (Universita e INFN, Bologna (IT))

Session Classification: Mixing and CP violation in Beauty and Charm

Contribution ID: 20 Type: not specified

LHCb: Spectroscopy highlights from LHCb's run 1+2 and outlook for the upgrade (20+5)

Wednesday, 17 October 2018 09:05 (25 minutes)

LHCb: Spectroscopy highlights f · · ·

Presenter: STAHL, Marian (Ruprecht Karls Universitaet Heidelberg (DE))

Session Classification: QCD spectroscopy and exotic hadrons

Contribution ID: 21 Type: not specified

Doubly-heavy baryons and exotics in the quark model (25+5)

Thursday, 18 October 2018 09:30 (30 minutes)

Presenter: RICHARD, Jean-Marc Rene (Centre National de la Recherche Scientifique (FR))

Session Classification: QCD spectroscopy and exotic hadrons

Contribution ID: 22 Type: not specified

Exotic hadrons - a semiempirical approach (25+5)

Thursday, 18 October 2018 09:00 (30 minutes)

Presenter: ROSNER, Jonathan (University of Chicago)

Session Classification: QCD spectroscopy and exotic hadrons

Contribution ID: 23 Type: not specified

LHCb: New inclusive approach to double b hadrons at LHCb (15+5)

Thursday, 18 October 2018 10:00 (20 minutes)

Presenter: GERSHON, Timothy (University of Warwick (GB))

Session Classification: QCD spectroscopy and exotic hadrons

Contribution ID: 24 Type: not specified

LHCb: Experimental overview on measurements on $B \to DlX$ (including $R(D^*)$ and friends) (25+5)

Thursday, 18 October 2018 14:00 (30 minutes)

LHCb: Experimental overview on · · ·

Presenter: KLAVER, Suzanne (INFN e Laboratori Nazionali di Frascati (IT))

Session Classification: Semileptonic decays, rare decays, and tests of lepton flavour univer-

sality

Contribution ID: 25 Type: not specified

Overview form-factors, Vcb/Vub, R-ratios using lattice QCD (25+5)

Thursday, 18 October 2018 14:30 (30 minutes)

Presenter: JUTTNER, Andreas (University of Southampton (GB))

Session Classification: Semileptonic decays, rare decays, and tests of lepton flavour univer-

sality

Contribution ID: 26 Type: not specified

Overview of form factors from QCD sum rules (including rare decays) (25+5)

Thursday, 18 October 2018 15:00 (30 minutes)

Overview of form factors from Q $\,\cdots$

Presenter: RUSOV, Aleksey (University of Siegen)

Session Classification: Semileptonic decays, rare decays, and tests of lepton flavour univer-

sality

Contribution ID: 27

Type: not specified

New predictions for $\Lambda_b \to \Lambda_c$ semileptonic decays and tests of heavy quark symmetry (15+5)

Thursday, 18 October 2018 15:30 (20 minutes)

Presenter: LIGETI, Zoltan (University of California Berkeley (US))

Session Classification: Semileptonic decays, rare decays, and tests of lepton flavour univer-

sality

Contribution ID: 28 Type: not specified

From $R(D^*)$ to $R(D\pi)$: the role of longitudinal corrections (15+5)

Thursday, 18 October 2018 16:20 (20 minutes)

Presenter: TOLEDO, Genaro (UNAM)

Session Classification: Semileptonic decays, rare decays, and tests of lepton flavour univer-

sality

Contribution ID: 29 Type: not specified

Comments on D^* measurements in B decays (15+5)

Thursday, 18 October 2018 16:40 (20 minutes)

Presenter: ROUDEAU, patrick (Laboratoire de l'Accélérateur Linéaire (LAL))

Session Classification: Semileptonic decays, rare decays, and tests of lepton flavour univer-

sality

Contribution ID: 30 Type: not specified

Soft photon correction for $R(D^{(st)})$ (15+5) (cancelled)

Thursday, 18 October 2018 17:00 (20 minutes)

Presenter: DE BOER, Stefan

Session Classification: Semileptonic decays, rare decays, and tests of lepton flavour univer-

sality

Contribution ID: 31 Type: not specified

Lepton Flavour Universality tests in the angular observables of $\overline B \to D^{(*)} \ell \bar \nu$ (15+5)

Thursday, 18 October 2018 17:20 (20 minutes)

Presenter: FEDELE, Marco (ICC Barcelona)

Session Classification: Semileptonic decays, rare decays, and tests of lepton flavour univer-

sality

Contribution ID: 32 Type: not specified

New Physics Models for the B Decay Anomalies (20+5)

Thursday, 18 October 2018 17:40 (25 minutes)

Presenter: BLANKE, Monika

Session Classification: Semileptonic decays, rare decays, and tests of lepton flavour univer-

sality

Contribution ID: 33 Type: not specified

HNL models, signals at LHCb (25+5)

Presenter: FISCHER, Oliver (Karlsruhe Institute of Technology)

Session Classification: Electroweak physics, heavy flavour production, implications for

(n)PDFs, heavy ions, and exotica searches

Contribution ID: 34 Type: **not specified**

LHCb: Recent results on EW and top physics (20+5)

Friday, 19 October 2018 08:30 (25 minutes)

Presenter: MEAD, James (University of Liverpool (GB))

Session Classification: Electroweak physics, heavy flavour production, implications for

(n)PDFs, heavy ions, and exotica searches

Contribution ID: 35 Type: not specified

LHCb: Recent results on exotica searches (20+5)

Friday, 19 October 2018 08:55 (25 minutes)

Presenter: Mr MARINANGELI, Matthieu (EPFL - Ecole Polytechnique Federale Lausanne (CH))

Session Classification: Electroweak physics, heavy flavour production, implications for (n)PDFs, heavy ions, and exotica searches

Contribution ID: 36 Type: not specified

New quarkonium studies with the LHCb detector (25+5)

Friday, 19 October 2018 09:20 (30 minutes)

Presenter: LANSBERG, Jean-Philippe (Centre National de la Recherche Scientifique (FR))

Session Classification: Electroweak physics, heavy flavour production, implications for (n)PDFs, heavy ions, and exotica searches

ns LHCb: Recent results on heavy io · · ·

Contribution ID: 37 Type: not specified

LHCb: Recent results on heavy ions (20+5)

Friday, 19 October 2018 09:50 (25 minutes)

Presenter: CHEN, Shanzhen (Universita e INFN, Cagliari (IT))

Session Classification: Electroweak physics, heavy flavour production, implications for

(n)PDFs, heavy ions, and exotica searches

LHCb: Exotic hadrons at LHCb: c · · ·

Contribution ID: 38 Type: not specified

LHCb: Exotic hadrons at LHCb: current highlights and outlook for Run 3 (25+5)

Thursday, 18 October 2018 08:30 (30 minutes)

Presenter: DEY, Biplab (CCNU)

Session Classification: QCD spectroscopy and exotic hadrons

Contribution ID: 39 Type: not specified

Prospects for the discovery of stable doubly-bottom tetraquarks at the LHC (20+5)

Wednesday, 17 October 2018 09:50 (25 minutes)

Presenter: ALI, Ahmed

Session Classification: QCD spectroscopy and exotic hadrons

Contribution ID: 40 Type: not specified

Lattice Predictions for Bound Heavy Tetraquarks (15+5)

Wednesday, 17 October 2018 09:30 (20 minutes)

Presenter: FRANCIS, Anthony Sebastian (CERN)

Session Classification: QCD spectroscopy and exotic hadrons

Contribution ID: 41 Type: not specified

LHCb: CODEX-b simulation updates [TBC] (15+5)

Friday, 19 October 2018 10:45 (20 minutes)

Presenter: DEY, Biplab (CCNU)

Contribution ID: 42 Type: not specified

Experimental keynote (45+15)

Session Classification: Keynote

Contribution ID: 43 Type: not specified

Theory keynote (45+15)

Friday, 19 October 2018 11:05 (1 hour)

Presenter: PICH, Antonio (IFIC, U. Valencia -.)

Session Classification: Keynote

Closeout (10)

Contribution ID: 44 Type: **not specified**

Closeout (10)

Friday, 19 October 2018 12:05 (10 minutes)

Presenter: CHARLES, Matthew John (LPNHE Paris, CNRS/IN2P3 UPMC and UPD)

Session Classification: Keynote

Contribution ID: 45 Type: not specified

LHCb overview (25+5)

Wednesday, 17 October 2018 08:35 (30 minutes)

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

Contribution ID: 46 Type: not specified

HNL models, signals at LHCb (25+5)

Wednesday, 17 October 2018 17:50 (30 minutes)

Presenter: FISCHER, Oliver (Karlsruhe Institute of Technology)

Session Classification: Electroweak physics, heavy flavour production, implications for

(n)PDFs, heavy ions, and exotica searches

Contribution ID: 47 Type: **not specified**

-

Session Classification: QCD spectroscopy and exotic hadrons