

Beauty 2016, Marseille, France



Report of Contributions

Contribution ID: 1

Type: **not specified**

Theory in the LHC era: overview and vision

Monday 2 May 2016 09:15 (45 minutes)

Presenter: MURAYAMA, Hitoshi

Session Classification: Overview

Contribution ID: 2

Type: **not specified**

Penguins in ϕ_s , ϕ_d

Monday 2 May 2016 10:00 (30 minutes)

Presenter: DE BRUYN, Kristof (CPPM, Aix Marseille Université, CNRS/IN2P3, Marseille, France)

Session Classification: b hadrons lifetime, mixing and CPV

Contribution ID: 3

Type: **not specified**

Summary on theory

Friday 6 May 2016 11:10 (45 minutes)

Presenter: EICHTEN, Estia (Fermilab)

Session Classification: Summaries

Contribution ID: 4

Type: **not specified**

Experimental summary

Friday 6 May 2016 11:55 (45 minutes)

Presenter: SCHUNE, Marie-Helene (Laboratoire de l'Accelérateur Lineaire (FR))

Session Classification: Summaries

Contribution ID: 5

Type: **not specified**

CP violating phase φ_s and $\Delta\Gamma_s$ measurements at LHCb

Monday 2 May 2016 11:00 (20 minutes)

Presenter: VAZQUEZ SIERRA, Carlos (Universidade de Santiago de Compostela (ES))

Session Classification: b hadrons lifetime, mixing and CPV

Contribution ID: 6

Type: **not specified**

Lifetime, mixing and CPV in ATLAS

Monday 2 May 2016 11:20 (20 minutes)

Presenter: SKINNER, Malcolm Bruce (Lancaster University (GB))

Session Classification: b hadrons lifetime, mixing and CPV

Contribution ID: 7

Type: **not specified**

Measurement of CP violation in $B_s \rightarrow J/\psi \Phi$ decays with the CMS experiment

Monday 2 May 2016 11:40 (20 minutes)

Presenter: JARVINEN, Terhi Tuuli (Helsinki Institute of Physics (FI))

Session Classification: b hadrons lifetime, mixing and CPV

Contribution ID: 8

Type: **not specified**

CPV in mixing at LHCb

Monday 2 May 2016 12:00 (20 minutes)

Presenter: DE VRIES, Jacco Andreas (Nikhef National institute for subatomic physics (NL))

Session Classification: b hadrons lifetime, mixing and CPV

Contribution ID: **10**

Type: **not specified**

Theoretical review on spectroscopy including exotic states

Monday 2 May 2016 14:00 (30 minutes)

Presenter: LEBED, Richard (Arizona State University)

Session Classification: Spectroscopy, onia and exotics

Contribution ID: **11**

Type: **not specified**

Exotic quarkonium states at CMS

Monday 2 May 2016 14:30 (20 minutes)

Presenter: CRISTELLA, Leonardo (Università & INFN, Bari (IT))

Session Classification: Spectroscopy, onia and exotics

Contribution ID: 12

Type: **not specified**

Spectroscopy, onia including exotics at LHCb

Monday 2 May 2016 14:50 (20 minutes)

Presenter: CRAIK, Daniel Charles (University of Edinburgh (GB))

Session Classification: Spectroscopy, onia and exotics

Contribution ID: 13

Type: **not specified**

Spectroscopy, onia including exotics at ATLAS

Monday 2 May 2016 15:10 (20 minutes)

Presenter: LYUBUSHKIN, Vladimir (Joint Inst. for Nuclear Research (RU))

Session Classification: Spectroscopy, onia and exotics

Contribution ID: 14

Type: **not specified**

Spectroscopy including XYZ states at BESIII

Monday 2 May 2016 15:30 (20 minutes)

Presenter: WANG, LIANGLIANG

Session Classification: Spectroscopy, onia and exotics

Contribution ID: 15

Type: **not specified**

Review of Higgs results at LHC

Monday 2 May 2016 16:20 (20 minutes)

Presenter: FAVARETO, Andrea (Università degli Studi e INFN Genova)

Session Classification: High pT flavour physics

Contribution ID: 16

Type: **not specified**

Top results from the LHC (ATLAS and CMS results)

Monday 2 May 2016 16:40 (20 minutes)

Presenter: MOHANTY, Gagan (Tata Inst. of Fundamental Research (IN))

Session Classification: High pT flavour physics

Contribution ID: 17

Type: **not specified**

Theoretical review on new Higgs

Monday 2 May 2016 17:00 (30 minutes)

Presenter: BROD, Joachim (Johannes-Gutenberg-Universitaet Mainz)

Session Classification: High pT flavour physics

Contribution ID: **18**

Type: **not specified**

ATLAS performance in run 2

Wednesday 4 May 2016 11:50 (20 minutes)

Presenter: PANDURO VAZQUEZ, Jose Guillermo (Royal Holloway, University of London)

Session Classification: Instrumentation

Contribution ID: **19**

Type: **not specified**

Theoretical overview on rare decays

Tuesday 3 May 2016 09:00 (30 minutes)

Presenter: LUNGI, Enrico (Indiana University (US))

Session Classification: Semileptonic and rare decays

Contribution ID: 20

Type: **not specified**

Semileptonic at LHCb (RD*)

Tuesday 3 May 2016 09:30 (20 minutes)

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

Session Classification: Semileptonic and rare decays

Contribution ID: 21

Type: **not specified**

Theoretical review on semileptonic decays including $|V_{cb}|$

Tuesday 3 May 2016 09:50 (30 minutes)

Presenter: GAMBINO, paolo (università di torino)

Session Classification: Semileptonic and rare decays

Contribution ID: 22

Type: **not specified**

Semileptonic at B-factories (RD, RD*)

Tuesday 3 May 2016 10:20 (20 minutes)

Presenter: HASENBUSCH, Jan

Session Classification: Semileptonic and rare decays

Contribution ID: 23

Type: **not specified**

Rare/semi-rare decays ($B \rightarrow K^* \mu \mu$, $B \rightarrow \mu \mu$, ...) at ATLAS

Tuesday 3 May 2016 11:10 (20 minutes)

Presenter: DE SANCTIS, Umberto (University of Sussex (GB))

Session Classification: Semileptonic and rare decays

Contribution ID: 24

Type: **not specified**

B to $K^*l\bar{l}$ and rare decays at CMS

Tuesday 3 May 2016 11:30 (20 minutes)

Presenter: BOLETTI, Alessio (Universita e INFN, Padova (IT))

Session Classification: Semileptonic and rare decays

Contribution ID: 25

Type: **not specified**

Form factors for $B_s \rightarrow K\ell\nu$ decays from lattice HQET

Tuesday 3 May 2016 11:50 (5 minutes)

Presenter: KOREN, Mateusz (NIC, DESY Zeuthen)

Session Classification: Poster session

Contribution ID: 26

Type: **not specified**

Precision measurement of decay-rate asymmetries in $D^0 \rightarrow hh$ modes using the full LHCb Run-I sample

Tuesday 3 May 2016 11:55 (5 minutes)

Presenter: MARINO, Pietro (SNS & INFN-Pisa (IT))

Session Classification: Poster session

Contribution ID: 27

Type: **not specified**

Measurement of the branching fraction ratio $\text{Br}(\text{Bc} \rightarrow \text{Psi}(2\text{S}) \pi) / \text{Br}(\text{Bc} \rightarrow \text{Jpsi} \pi)$ at LHCb

Tuesday 3 May 2016 12:00 (5 minutes)

Presenter: AN, Liupan (Ecole Polytechnique Federale de Lausanne (CH))

Session Classification: Poster session

Contribution ID: 28

Type: **not specified**

Measurement of correlations between heavy-favour decay electrons and unidentified charged particles in p-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV and in pp collisions at 7TeV

Tuesday 3 May 2016 12:10 (5 minutes)

Presenter: MAS, Alexis (Universidade de Sao Paulo (BR))

Session Classification: Poster session

Contribution ID: 29

Type: **not specified**

b-anomalies related to leptons and LFUV

Tuesday 3 May 2016 14:00 (30 minutes)

Presenter: CRIVELLIN, Andreas (CERN)

Session Classification: Semileptonic and rare decays

Contribution ID: **30**

Type: **not specified**

Electroweak penguins with di-leptons, including K^* $\mu\mu$, R_K , ...

Tuesday 3 May 2016 14:30 (20 minutes)

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

Session Classification: Semileptonic and rare decays

Contribution ID: **31**

Type: **not specified**

Semileptonic B decays at LHCb (V_{ub})

Tuesday 3 May 2016 14:50 (20 minutes)

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

Session Classification: Semileptonic and rare decays

Contribution ID: 32

Type: **not specified**

Radiative electroweak penguin decays at LHCb

Tuesday 3 May 2016 15:10 (20 minutes)

Presenter: XU, Zhirui (Ecole Polytechnique Federale de Lausanne (CH))

Session Classification: Semileptonic and rare decays

Contribution ID: 33

Type: **not specified**

Hadronic uncertainties in semileptonic B decays

Tuesday 3 May 2016 15:30 (30 minutes)

Presenter: MARTIN CAMALICH, Jorge (Johannes Universitat Mainz)

Session Classification: Semileptonic and rare decays

Contribution ID: 34

Type: **not specified**

BSM fits for rare B decays

Tuesday 3 May 2016 16:30 (30 minutes)

Presenter: DESCOTES-GENON, Sébastien (CNRS)

Session Classification: Semileptonic and rare decays

Contribution ID: 35

Type: **not specified**

EW and radiative penguin transitions from B-factories

Tuesday 3 May 2016 17:00 (20 minutes)

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

Session Classification: Semileptonic and rare decays

Contribution ID: 36

Type: **not specified**

Very rare decays at LHCb

Tuesday 3 May 2016 17:20 (20 minutes)

Presenter: EVANS, Hannah Mary (University of Cambridge (GB))

Session Classification: Semileptonic and rare decays

Contribution ID: 37

Type: **not specified**

Beyond the Standard Model

Tuesday 3 May 2016 17:40 (30 minutes)

Presenter: OKADA, Yasuhiro (KEK)

Session Classification: Semileptonic and rare decays

Contribution ID: **38**

Type: **not specified**

Lattice QCD

Monday 2 May 2016 17:30 (30 minutes)

Presenter: VAN DE WATER, Ruth (Brookhaven National Laboratory)

Session Classification: Lattice

Contribution ID: 39

Type: **not specified**

Renaissance of kaon flavour physics

Wednesday 4 May 2016 09:00 (30 minutes)

Summary

Presenter: BURAS, Andrzej (Technical University Munich)

Session Classification: Kaons, EDM, LFV

Contribution ID: 40

Type: **not specified**

NA62 results and prospects

Wednesday 4 May 2016 09:30 (20 minutes)

Author: BUCCI, Francesca (Universita e INFN, Firenze (IT))

Presenter: BUCCI, Francesca (Universita e INFN, Firenze (IT))

Session Classification: Kaons, EDM, LFV

Contribution ID: 41

Type: **not specified**

ISR and tau physics at B-factories

Wednesday 4 May 2016 09:50 (20 minutes)

Presenter: SEREDNYAKOV, Sergey

Session Classification: Kaons, EDM, LFV

Contribution ID: 42

Type: **not specified**

Theory of EDMs and LFV

Wednesday 4 May 2016 10:10 (30 minutes)

Presenter: JUNG, Martin (TUM IAS / Excellence Cluster Universe)

Session Classification: Kaons, EDM, LFV

Contribution ID: 43

Type: **not specified**

LFV experiments (MEG, ...)

Wednesday 4 May 2016 11:10 (20 minutes)

Presenter: LANCASTER, Mark (University College London (UK))

Session Classification: Kaons, EDM, LFV

Contribution ID: 44

Type: **not specified**

BelleII: physics and early measurements

Wednesday 4 May 2016 12:10 (30 minutes)

Presenter: SHIU, Sjing-Ge (National Taiwan University (TW))

Session Classification: Future programs

Contribution ID: 45

Type: **not specified**

LHCb Run 2 trigger performance

Wednesday 4 May 2016 11:30 (20 minutes)

Presenter: SCIASCIA, Barbara (INFN (IT))

Session Classification: Instrumentation

Contribution ID: 46

Type: **not specified**

D0-D0bar mixing and rare D decays as probes of NP

Thursday 5 May 2016 09:00 (30 minutes)

Presenter: PETROV, Alexey (Wayne State University)

Session Classification: Charm physics

Contribution ID: 47

Type: **not specified**

Charm CPV and rare decays at LHCb

Thursday 5 May 2016 09:30 (20 minutes)

Presenter: MORELLO, Michael J. (SNS and INFN-Pisa (IT))

Session Classification: Charm physics

Contribution ID: 48

Type: **not specified**

Charm at B-factories

Thursday 5 May 2016 09:50 (20 minutes)

Presenter: LI, LongKe

Session Classification: Charm physics

Contribution ID: 49

Type: **not specified**

Charm at BESIII

Thursday 5 May 2016 10:10 (20 minutes)

Presenter: LI, Peirong

Session Classification: Charm physics

Contribution ID: 50

Type: **not specified**

Non-leptonic D decays

Thursday 5 May 2016 10:50 (30 minutes)

Presenter: Dr SCHACHT, Stefan (Karlsruhe Institute of Technology (KIT))

Session Classification: Charm physics

Contribution ID: 51

Type: **not specified**

Heavy flavour production at ATLAS

Thursday 5 May 2016 11:20 (20 minutes)

Presenter: WALDER, James William (Lancaster University (GB))

Session Classification: Heavy flavor production

Contribution ID: 52

Type: **not specified**

Heavy flavour production at CMS

Thursday 5 May 2016 11:40 (20 minutes)

Presenter: NEGRO, Giulia (CEA/IRFU, Centre d'étude de Saclay Gif-sur-Yvette (FR))

Session Classification: Heavy flavor production

Contribution ID: 53

Type: **not specified**

Heavy flavour production at LHCb

Thursday 5 May 2016 12:00 (20 minutes)

Presenter: BARSUK, Sergey (Laboratoire de l'Accelérateur Lineaire (FR))

Session Classification: Heavy flavor production

Contribution ID: 54

Type: **not specified**

Heavy flavour production in ion collisions

Thursday 5 May 2016 12:20 (20 minutes)

Presenter: PRINO, Francesco (Universita e INFN Torino (IT))

Session Classification: Heavy flavor production

Contribution ID: 55

Type: **not specified**

Theoretical overview on CP violation

Thursday 5 May 2016 14:00 (30 minutes)

Presenter: CHARLES, Jérôme (CPT Marseille)

Session Classification: CP violation including gamma

Contribution ID: 56

Type: **not specified**

Gamma measurements at LHCb

Thursday 5 May 2016 14:30 (20 minutes)

Presenter: CHEUNG, Faye (University of Oxford (GB))

Session Classification: CP violation including gamma

Contribution ID: 57

Type: **not specified**

Hadronic B/Bs decays results (including CPV, gamma) at B-factories

Thursday 5 May 2016 14:50 (20 minutes)

Presenter: MOHANTY, Gagan (Tata Inst. of Fundamental Research (IN))

Session Classification: CP violation including gamma

Contribution ID: 58

Type: **not specified**

Charmless B decays at LHCb

Thursday 5 May 2016 15:10 (20 minutes)

Presenter: EKLUND, Lars (University of Glasgow (GB))

Session Classification: CP violation including gamma

Contribution ID: 59

Type: **not specified**

Multibody charmless b-hadron decays

Thursday 5 May 2016 15:30 (20 minutes)

Presenter: DUJANY, Giulio (University of Manchester (GB))

Session Classification: CP violation including gamma

Contribution ID: **60**

Type: **not specified**

B decays to open charm

Thursday 5 May 2016 16:30 (20 minutes)

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

Session Classification: CP violation including gamma

Contribution ID: **61**

Type: **not specified**

B hadron properties (lifetimes, BR and polarisation, b-baryons, Bc, ...)

Thursday 5 May 2016 16:50 (20 minutes)

Summary

Presenter: HEREDIA DE LA CRUZ, Ivan (Centro Invest. Estudios Avanz. IPN (MX))

Session Classification: b-hadrons properties

Contribution ID: **62**

Type: **not specified**

b-hadrons decays at ATLAS

Thursday 5 May 2016 17:10 (20 minutes)

Presenter: TURCHIKHIN, Semen (M.V. Lomonosov Moscow State University (RU))

Session Classification: b-hadrons properties

Contribution ID: **63**

Type: **not specified**

b-hadrons decays at LHCb

Thursday 5 May 2016 17:30 (20 minutes)

Presenter: POLUEKTOV, Anton (University of Warwick (GB))

Session Classification: b-hadrons properties

Contribution ID: **64**

Type: **not specified**

LHCb upgrade

Thursday 5 May 2016 17:50 (20 minutes)

Presenter: SIMI, Gabriele (Universita e INFN, Padova (IT))

Session Classification: Future programs

Contribution ID: 65

Type: **not specified**

SuperKEKB, Beast and BelleII prospects

Friday 6 May 2016 09:00 (30 minutes)

Presenter: NAYAK, Minakshi (Indian Institute of Technology Madras)

Session Classification: Future programs

Contribution ID: **66**

Type: **not specified**

LHCb long term plans beyond the current upgrade

Friday 6 May 2016 10:10 (20 minutes)

Presenter: TEUBERT, Frederic (CERN)

Session Classification: Future programs

Contribution ID: 67

Type: **not specified**

ATLAS future upgrade

Friday 6 May 2016 09:30 (20 minutes)

Presenter: VANKOV, Peter (Nikhef National institute for subatomic physics (NL))

Session Classification: Future programs

Contribution ID: **68**

Type: **not specified**

B physics with CMS upgraded detector

Friday 6 May 2016 09:50 (20 minutes)

Presenter: PALLA, Fabrizio (Universita di Pisa & INFN (IT))

Session Classification: Future programs

Contribution ID: **69**

Type: **not specified**

Extreme flavor factories (FCC, ...)

Friday 6 May 2016 10:50 (20 minutes)

Presenter: MONTEIL, Stephane (Univ. Blaise Pascal Clermont-Fe. II (FR))

Session Classification: Future programs

Contribution ID: 70

Type: **not specified**

Precise measurement of the branching fraction of B^0 to $D^{*3}\pi$

Tuesday 3 May 2016 12:05 (5 minutes)

Presenter: WANG, LIANGLIANG

Session Classification: Poster session

Contribution ID: 71

Type: **not specified**

Measurement of CP violation and mixing in $B_s \rightarrow J/\psi \phi$ in ATLAS

Tuesday 3 May 2016 12:15 (5 minutes)

Presenter: JAKOUBEK, Tomas (Acad. of Sciences of the Czech Rep. (CZ))

Session Classification: Poster session

Contribution ID: 72

Type: **not specified**

ATLAS Topological Level-1 Trigger used in Run-2 for B0(s) to mu+mu- searches

Tuesday 3 May 2016 12:20 (5 minutes)

Presenter: DE SANCTIS, Umberto (University of Sussex (GB))

Session Classification: Poster session

Contribution ID: 73

Type: **not specified**

B_c decays from highly improved staggered quarks and NRQCD

Tuesday 3 May 2016 12:25 (5 minutes)

We use both non-relativistic QCD (NRQCD) and fully relativistic formalisms to calculate semileptonic form factors for the decays $B_c \rightarrow \eta_c \ell \nu$ and $B_c \rightarrow J/\psi \ell \nu$ over the entire q^2 range. To achieve this we employ a highly improved lattice quark action and at several lattice spacings down to $a=0.044$ fm, which allow a fully relativistic treatment of charm and simulation of the full q^2 range with controlled continuum extrapolation. We have two ways of treating the b quark: either with an $O(\alpha_s)$ improved NRQCD formalism or by extrapolating a heavy mass m_h to m_b in the relativistic formalism. We find good agreement between these approaches which provides an important cross-check of our results.

Presenter: LYTLE, Andrew (University of Glasgow)

Session Classification: Poster session

Contribution ID: 74

Type: **not specified**

Matching of gauge invariant dimension 6 operators for b to s and b to c transitions

Tuesday 3 May 2016 12:30 (5 minutes)

New physics realized above the electroweak scale can be encoded in a model independent way in the Wilson coefficients of higher dimensional operators which are invariant under the Standard Model gauge group. In this talk, I present the matching of the $SU(3)_C \times SU(2)_L \times U(1)_Y$ gauge invariant dim-6 operators on the standard B physics Hamiltonian relevant for b \rightarrow s and b \rightarrow c transitions. The matching is performed at the electroweak scale (after spontaneous symmetry breaking) by integrating out the top quark, W, Z and the Higgs particle. We first carried out the matching of the dim-6 operators that give a contribution at tree level to the low energy Hamiltonian. In a second step, we identified those gauge invariant operators that do not enter b \rightarrow s transitions already at tree level, but can give relevant one-loop matching effects.

Presenter: AEBISCHER, Jason (University of Bern)

Session Classification: Poster session

Contribution ID: 75

Type: **not specified**

Introduction to Beauty 2016 by the local chairman

Monday 2 May 2016 09:00 (5 minutes)

Presenter: LEROY, Olivier (CPPM, Aix Marseille Université, CNRS/IN2P3, Marseille, France)

Session Classification: Welcome

Contribution ID: 76

Type: **not specified**

Welcome by the CPPM director

Monday 2 May 2016 09:05 (10 minutes)

Presenter: KAJFASZ, Eric (Centre National de la Recherche Scientifique (FR))

Session Classification: Welcome