

Towards the Ultimate Precision in Flavour Physics

Report of Contributions

Contribution ID: 1

Type: **not specified**

Welcome and introduction

Monday, April 16, 2018 11:00 AM (10 minutes)

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

Session Classification: Keynote session

Contribution ID: 2

Type: **not specified**

Why aim for ultimate precision?

Monday, April 16, 2018 11:10 AM (30 minutes)

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

Session Classification: Keynote session

Contribution ID: 3

Type: **not specified**

Experiments for ultimate precision

Monday, April 16, 2018 11:45 AM (30 minutes)

Presenter: VAGNONI, Vincenzo (INFN Bologna (IT))

Session Classification: Keynote session

Contribution ID: 4

Type: **not specified**

Data challenges

Monday, April 16, 2018 12:20 PM (30 minutes)

Presenter: GLIGOROV, Vladimir (Centre National de la Recherche Scientifique (FR))

Session Classification: Keynote session

Contribution ID: 5

Type: **not specified**

Challenges for precision lattice QCD and other non-perturbative theoretical approaches

Monday, April 16, 2018 2:00 PM (30 minutes)

Presenter: SACHRAJDA, Christopher (University of Southampton)

Session Classification: Keynote session

Contribution ID: 6

Type: **not specified**

Precision silicon detectors for high luminosity experiments

Monday, April 16, 2018 2:35 PM (30 minutes)

Presenter: COLLINS, Paula (CERN)

Session Classification: Keynote session

Contribution ID: 7

Type: **not specified**

Reconciling particle physics with cosmology

Monday, April 16, 2018 3:10 PM (30 minutes)

Presenter: COPELAND, Ed (Nottingham University)

Session Classification: Keynote session

Contribution ID: 8

Type: **not specified**

Model-independent CPV in multi-body channels, expt.

Monday, April 16, 2018 4:15 PM (20 minutes)

Presenter: PARKES, Chris (University of Manchester (GB))

Session Classification: CP violation in the charm sector

Contribution ID: 9

Type: **not specified**

CPV violation in multibody and baryon decays, pheno

Monday, April 16, 2018 4:40 PM (20 minutes)

Presenter: DURIEUX, Gauthier (DESY)

Session Classification: CP violation in the charm sector

Contribution ID: **10**

Type: **not specified**

Experimental prospects for CPV measurements in baryons, and T- and P-odd symmetries, expt.

Monday, April 16, 2018 5:05 PM (20 minutes)

Presenter: MARTINELLI, Maurizio (Ecole Polytechnique Federale de Lausanne (CH))

Session Classification: CP violation in the charm sector

Contribution ID: 11

Type: **not specified**

Radiative charm decays

Monday, April 16, 2018 5:30 PM (20 minutes)

Presenter: NANUT, Tara (EPFL - Ecole Polytechnique Federale Lausanne (CH))

Session Classification: CP violation in the charm sector

Contribution ID: 12

Type: **not specified**

What have we measured so far and how will these results evolve?

Tuesday, April 17, 2018 8:45 AM (20 minutes)

Presenter: BLAKE, Thomas (University of Warwick)

Session Classification: B decays to rare leptonic and semileptonic final states

Contribution ID: 13

Type: **not specified**

Status and expected progress of global fits

Tuesday, April 17, 2018 9:10 AM (20 minutes)

Presenter: VALE SILVA, Luiz

Session Classification: B decays to rare leptonic and semileptonic final states

Contribution ID: 14

Type: **not specified**

Prospects for reducing theory uncertainties, including optimised observables

Tuesday, April 17, 2018 9:35 AM (20 minutes)

Presenter: MATIAS, Joaquim (Universitat Autònoma de Barcelona)

Session Classification: B decays to rare leptonic and semileptonic final states

Contribution ID: 15

Type: **not specified**

Charm-loop effects

Tuesday, April 17, 2018 10:00 AM (20 minutes)

Presenter: CIUCHINI, Marco (INFN Sezione di Roma Tre)

Session Classification: B decays to rare leptonic and semileptonic final states

Contribution ID: 16

Type: **not specified**

Experimental approaches to constrain charm loops

Tuesday, April 17, 2018 10:25 AM (20 minutes)

Presenter: OWEN, Patrick Haworth (Universitaet Zuerich (CH))

Session Classification: B decays to rare leptonic and semileptonic final states

Contribution ID: 17

Type: **not specified**

Mixing and CP violation in mixing (A_sl); pheno

Tuesday, April 17, 2018 11:10 AM (20 minutes)

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

Session Classification: Precision measurements of tree-level observables

Contribution ID: **18**

Type: **not specified**

Mixing and CP violation in mixing (A_sl); experiment

Tuesday, April 17, 2018 11:35 AM (20 minutes)

Presenter: GRILLO, Lucia (University of Manchester (GB))

Session Classification: Precision measurements of tree-level observables

Contribution ID: 19

Type: **not specified**

Penguin pollution in beta and beta_s from b->ccs; pheno

Tuesday, April 17, 2018 12:00 PM (20 minutes)

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

Session Classification: Precision measurements of tree-level observables

Contribution ID: 20

Type: **not specified**

beta and beta_s from b->ccs and penguin-free modes; expt

Tuesday, April 17, 2018 12:25 PM (20 minutes)

Presenter: COWAN, Greig (The University of Edinburgh (GB))

Session Classification: Precision measurements of tree-level observables

Contribution ID: 21

Type: **not specified**

What is needed to distinguish models of Lepton non-Universality?, pheno

Tuesday, April 17, 2018 2:00 PM (20 minutes)

Presenter: BUTTAZZO, Dario (INFN)

Session Classification: B decays to rare leptonic and semileptonic final states

Contribution ID: 22

Type: **not specified**

Limiting factors for tests of Lepton Universality in neutral-current semileptonic decays, expt

Tuesday, April 17, 2018 2:25 PM (20 minutes)

Presenter: SILVA COUTINHO, Rafael (Universitaet Zuerich (CH))

Session Classification: B decays to rare leptonic and semileptonic final states

Contribution ID: 23

Type: **not specified**

Clean observables in rare B decays, pheno

Tuesday, April 17, 2018 2:50 PM (20 minutes)

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

Session Classification: B decays to rare leptonic and semileptonic final states

Contribution ID: 24

Type: **not specified**

Are Lepton-Flavour Violating decays within experimental reach?

Tuesday, April 17, 2018 3:15 PM (20 minutes)

Presenter: GUADAGNOLI, Diego (LAPTh Annecy)

Session Classification: B decays to rare leptonic and semileptonic final states

Contribution ID: 25

Type: **not specified**

Standard Model tests in modes with tau leptons, including Lepton-Flavour Violating decays

Tuesday, April 17, 2018 3:40 PM (20 minutes)

Presenter: MANCINELLI, Giampiero (CPPM, Aix-Marseille Université, CNRS/IN2P3, Marseille, France)

Session Classification: B decays to rare leptonic and semileptonic final states

Contribution ID: 26

Type: **not specified**

Mixing-driven CPV with two-body decays ($A\Gamma$, γCP , WS $K\pi$) – experiment

Tuesday, April 17, 2018 4:20 PM (20 minutes)

Presenter: GERSABECK, Marco (University of Manchester (GB))

Session Classification: CP violation in the charm sector

Contribution ID: 27

Type: **not specified**

Prospects for theoretical predictions for indirect CP violation in charm

Tuesday, April 17, 2018 4:45 PM (20 minutes)

Presenter: PETROV, Alexey (Wayne State University)

Session Classification: CP violation in the charm sector

Contribution ID: 28

Type: **not specified**

Direct CP violation in two-body decays – experiment

Tuesday, April 17, 2018 5:10 PM (20 minutes)

Presenter: CARBONE, Angelo (University of Bologna and INFN (IT))

Session Classification: CP violation in the charm sector

Contribution ID: 29

Type: **not specified**

Theoretical status of two-body charm decays

Tuesday, April 17, 2018 5:35 PM (20 minutes)

Presenter: SCHACHT, Stefan (INFN - National Institute for Nuclear Physics)

Session Classification: CP violation in the charm sector

Contribution ID: **30**

Type: **not specified**

Limiting NP effects in tree-level decays; pheno

Wednesday, April 18, 2018 8:45 AM (20 minutes)

Presenter: TETLALMATZI-XOLOCOTZI, Gilberto (Nikhef)

Session Classification: Precision measurements of tree-level observables

Contribution ID: 31

Type: **not specified**

gamma from B->DK decays; expt

Wednesday, April 18, 2018 9:10 AM (20 minutes)

Presenter: KENZIE, Matthew William (University of Cambridge (GB))

Session Classification: Precision measurements of tree-level observables

Contribution ID: 32

Type: **not specified**

|Vub| from leptonic and semileptonic decays; pheno

Wednesday, April 18, 2018 9:35 AM (20 minutes)

Presenter: PECJAK, Ben (IPPP Durham)

Session Classification: Precision measurements of tree-level observables

Contribution ID: 33

Type: **not specified**

$|\text{Vub}|$ from leptonic and semileptonic decays; experiment

Wednesday, April 18, 2018 10:00 AM (20 minutes)

Presenter: SUTCLIFFE, William Lawrence (Imperial College (GB))

Session Classification: Precision measurements of tree-level observables

Contribution ID: 34

Type: **not specified**

Lattice QCD inputs to Delta F=2 observables and |V_{ub}|

Wednesday, April 18, 2018 10:25 AM (20 minutes)

Presenter: WINGATE, Matthew (University of Cambridge)

Session Classification: Precision measurements of tree-level observables

Contribution ID: 35

Type: **not specified**

Multibody D decays and their uses for charm CP violation measurements

Wednesday, April 18, 2018 11:10 AM (20 minutes)

Presenter: RADEMACKER, Jonas (University of Bristol (GB))

Session Classification: Charm and B CP violation joint session

Contribution ID: 36

Type: **not specified**

Multibody D decays and their uses for B CP violation measurements including gamma

Wednesday, April 18, 2018 11:35 AM (20 minutes)

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

Session Classification: Charm and B CP violation joint session

Contribution ID: 37

Type: **not specified**

Input from b/c-Factories and interplay with LHCb measurements

Wednesday, April 18, 2018 12:00 PM (20 minutes)

Presenter: WILKINSON, Guy (University of Oxford (GB))

Session Classification: Charm and B CP violation joint session

Contribution ID: **38**

Type: **not specified**

Model-dependent and -independent methods and limiting uncertainties

Wednesday, April 18, 2018 12:25 PM (20 minutes)

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

Session Classification: Charm and B CP violation joint session

Contribution ID: 39

Type: **not specified**

Non-tree CPV in hadronic two-body or quasi-two-body modes, pheno

Wednesday, April 18, 2018 3:15 PM (20 minutes)

Presenter: Dr VOS, Keri (Siegen University)

Session Classification: Precision measurements of tree-level observables

Contribution ID: 40

Type: **not specified**

Non-tree CPV in two-body or quasi-two-body modes, expt

Wednesday, April 18, 2018 3:40 PM (20 minutes)

Presenter: PERAZZINI, Stefano (CERN (CH))

Session Classification: Precision measurements of tree-level observables

Contribution ID: 41

Type: **not specified**

Standard Model tests in modes with photons

Wednesday, April 18, 2018 2:00 PM (20 minutes)

Presenter: PUIG NAVARRO, Albert (Universität Zürich (CH))

Session Classification: B decays to rare leptonic and semileptonic final states

Contribution ID: 42

Type: **not specified**

Standard Model tests in modes with neutrinos

Wednesday, April 18, 2018 2:25 PM (20 minutes)

Presenter: WEHLE, Simon (DESY)

Session Classification: B decays to rare leptonic and semileptonic final states

Contribution ID: 43

Type: **not specified**

Standard Model tests in charged-current semileptonic decays, expt

Wednesday, April 18, 2018 2:50 PM (20 minutes)

Presenter: ROMERO VIDAL, Antonio (University of Santiago de Compostela (ES))

Session Classification: B decays to rare leptonic and semileptonic final states

Contribution ID: 44

Type: **not specified**

Wrap up and end

Wednesday, April 18, 2018 4:05 PM (15 minutes)

Presenters: LENZ, Alexander (IPPP, Durham); WILLIAMS, Mark Richard James (University of Manchester (GB)); BIFANI, Simone (University of Birmingham (GB)); MALDE, Sneha Sirirshkumar (University of Oxford (GB)); GERSHON, Timothy (University of Warwick (GB))