

Session Program

28 July 2020 to 6 August 2020

ICHEP 2020

Quark and Lepton Flavour Physics

virtual conference

Tuesday 28 July

15:30

Quark and Lepton Flavour Physics: Session I - Premiere

Session | **Location:** virtual conference | **Conveners:**

Ruth Van de Water, Carla Gobel Burlamaqui De Mello, Karim Massri

15:30-15:45 **Purely Leptonic Rare decays at LHCb**

Speaker

Lauren Emma Yeomans

15:45-16:00 **Search for New Physics with rare decays at CMS**

Speaker

Ozlem Ozelik Ozludil

16:00-16:15

ATLAS results on Heavy Flavour production and decay (including rare processes)

Speaker

Sally Seidel

16:15-16:30 **Study of B and $B_{\{s\}}$ Decays at Belle**

Speaker

Nisar Nellikunnummel

16:30-16:45 **Rare B-decay anomalies**

Speaker

Siavash Neshatpour

16:45-17:00 **Rare charm decays at LHCb**

Speaker

Chris Burr

17:00-17:15 **Radiative and Rare Charm Decays at BESIII**

Speaker

Dr Bo Zheng

17:15-17:30 **Rare and forbidden decays of D_0 meson**

Speaker

Racha Cheaib

17:30-17:37 **Coffee break**

17:37-17:52 **Recent gems from kaon and their repercussions for future directions**

Speaker

Amarjit Soni

17:52-18:07

Search for New Physics via the $K_L \rightarrow \pi^0 \nu \bar{\nu}$ decay at the J-PARC KOTO experiment

Speaker

Dr Nobuhiro Shimizu

18:07-18:22

New result on the search for the $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ decay at the NA62 experiment at CERN**Speaker**

Radoslav Marchevski

18:22-18:37

New measurement of the $K^+ \rightarrow \pi^+ \mu^+ \mu^-$ decay at NA62**Speaker**

Lubos Bician

18:37-18:52

Latest results on rare kaon decays from the NA48/2 experiment at CERN**Speaker**

Mauro Raggi

18:52-19:07

Latest D0 results on exotic hadrons produced in $p \bar{p}$ collision**Speaker**

Alexey Drutskoy

19:07-19:22

Search for QCD exotic states at CMS**Speaker**

Sergey Polikarpov

19:22-19:29

Coffee break

19:29-19:44

Isospin amplitudes in b-baryon decays at LHCb**Speaker**

Sheldon Stone

19:44-19:59

Production studies of double Bottomonia and of Bottomonium in association with an electroweak Boson at CMS**Speaker**

Sheila Silva Do Amaral

19:59-20:14

ATLAS results on quarkonia and associated production**Speaker**

Brad Abbott

20:14-20:29

Hadronic charm meson decays at BESIII**Speaker**

Chuangxin Lin

20:29-20:44

Recent charm results from Belle**Speaker**

Dr Longke Li

20:44-20:59

Production studies of D and B mesons at CMS

21:12

Speaker
Valentina Mariani

Wednesday 29 July

08:00

Quark and Lepton Flavour Physics: Session I - Replay

Session | **Location:** virtual conference

13:00

Quark and Lepton Flavour Physics: Session II - Premiere

Session | **Location:** virtual conference | **Conveners:**

Carla Gobel Burlamaqui De Mello, Ruth Van de Water, Karim Massri

15:30

15:30-15:45

Measurements of CKM matrix elements

Speaker

Fabio Ferrari

15:45-16:00

Nonperturbative calculations of form factors for exclusive semileptonic B(s) decays

Speaker

Oliver Witzel

16:00-16:15

First results on V_{ub} and V_{cb} with Belle II

Speaker

Racha Cheaib

16:15-16:30

Study of $B \rightarrow D^{*1} \nu$ and $B \rightarrow D^1 \nu$ decays with a full angular analysis at BABAR

Speakers

Franco Simonetto, Franco Simonetto

16:30-16:54

Updates on the Standard Model and beyond SM Unitarity Triangle fits and neutral charm mixing results by UFit

Speaker

Marcella Bona

16:54-17:01

Coffee break

17:01-17:16

Lepton Flavour Violation at LHCb

Speaker

Steffen Georg Weber

17:16-17:31

Lepton Flavor Violation and Dilepton Tails at the LHC

Speaker

Olcyr Sumensari

17:31-17:46

Lepton Universality tests using semileptonic b-hadron decays

Speakers

Beatriz Garcia Plana, Beatriz García Plana

17:46-18:01 **Searches for lepton flavour and lepton number violation in K^+ decays**

Speaker

Joel Christopher Swallow

18:01-18:16

Lepton-flavor universality violations & their repercussions for IF & for EF

Speaker

Amarjit Soni

18:16-18:31

$\tau \rightarrow \mu$ lepton flavor universality in $\Upsilon(3S)$ decays at the BABAR experiment

Speaker

Alexei Sibidanov

18:31-18:46

Probing Lepton Flavor Violating decays in MSSM with Non-Holomorphic Soft Terms

Speaker

Ms Samadrita Mukherjee

18:46-19:01

Muon to electron conversion search in the presence of Al nuclei at the Fermilab Mu2e experiment: Motivation, Design and Progress

Speaker

Mr Mete Yucel

19:01-19:08

Coffee break

19:08-19:23

Time-integrated measurements of the CKM angle γ at LHCb

Speaker

Sneha Sirirshkumar Malde

19:23-19:38

Time-dependent measurement from beauty to open charm at LHCb

Speaker

Evelina Mihova Gersabeck

19:38-19:53

Measurement of the weak mixing phase ϕ_s through time-dependent CP violation in $B_s^0 \rightarrow J/\psi \phi$ decay in ATLAS

Speaker

Tomas Jakoubek

19:53-20:08

CPV in B hadron decays at CMS

Speaker

Enrico Lusiani

20:08-20:23

Measurements of CP violation in charmless 2-body B meson decays at LHCb

Speaker

Davide Fazzini

20:23-20:38

Measurements of CP violation in charmless 3-body B meson decays at LHCb

Speaker
Thomas Grammatico

20:38–20:53 **Searches for CP violation in charmless b-baryon decays at LHCb**

Speaker
Matteo Bartolini

20:53–21:08

DIPOLE-b: direct measurement of dipole moments of short-lived particles at the LHC(b)

Speaker
Salvatore Aiola

21:10

Thursday 30 July

01:00

Quark and Lepton Flavour Physics: Session II - Replay

Session | **Location:** virtual conference

06:00

08:00

Quark and Lepton Flavour Physics: Session III - Premiere

Session | **Location:** virtual conference | **Conveners:** Akimasa Ishikawa, Pavel Reznicek, Paul Jackson

08:00–08:15

Electroweak Penguin Decays at LHCb

Speaker

David Gerick

08:15–08:30

Search for new physics in b to s $l^+ l^-$ transitions at CMS

Speaker

Alessio Boletti

08:30–08:45

Rare decays of Λ_b , B_c , and other b -hadrons at LHCb

Speaker

Anna Lupato

08:45–09:00

Results and Prospects of Radiative and Electroweak Penguin Decays at Belle II

Speaker

Yo Sato

09:00–09:15

Rare Radiative decays at LHCb

Speaker

Martino Borsato

09:15–09:30

ATLAS studies of Spectroscopy and exotics

Speaker

Semen Turchikhin

09:30–09:45

Charmed hadron properties and spectroscopy at LHCb

Speaker

Yixiong Zhou

09:45–10:00

New results in Λ_b baryon physics at CMS

Speaker

Nikita Petrov

10:00–10:07

Coffee break

10:07–10:22

Beauty to charmonium decays at LHCb

Speaker

Peilian Li

10:22–10:37

Beauty to open charm final states at LHCb

Speaker
Wojciech Krupa

10:37-10:52 **Study of b-hadron properties with semileptonic b-hadron decays**

Speaker
Florian Reiss

10:52-11:07

New results on semileptonic and leptonic B meson decays from the Belle experiment

Speakers
Lu Cao, Dr Lu Cao

11:07-11:22 **Semileptonic and leptonic charm decays at BESIII**

Speaker
Sanqiang Qu

11:22-11:37 **Early charmless B decay physics at Belle II**

Speaker
Eldar Ganiev

11:37-11:52 **Charm potential at Belle II**

Speaker
Giulia Casarosa

11:52-12:07 **Measurement of hadronic cross sections at CMD-3**

Speaker
Ivan Logashenko

12:07-12:14 **Coffee break**

12:14-12:29

Oscillations of B_s^0 mesons as a probe of decays with unreconstructed particles

Speaker
Anton Poluektov

12:29-12:44 **Flavor Physics and Discrete Symmetries at KLOE-2**

Speakers
Michal Silarski, Michal Silarski

12:44-12:59 **CP violation and mixing in charm hadrons at LHCb**

Speaker
Giulia Tuci

12:59-13:14 **Study of time-dependent and direct CP violation at Belle**

Speaker
Kazutaka Sumisawa

13:14-13:29

Measurement of γ (ϕ_3) and CP violation first results at Belle II

13:35
15:30
20:30

Speaker
Niharika Rout

Quark and Lepton Flavour Physics: Session III - Replay

Session | **Location:** virtual conference

Friday 31 July

08:00

Quark and Lepton Flavour Physics: Session IV - Premiere

Session | **Location:** virtual conference | **Conveners:** Pavel Reznicek, Paul Jackson, Akimasa Ishikawa

08:00–08:15 **Towards establishing the second b-flavored CKM unitarity triangle**

Speaker

Zhi-zhong Xing

08:15–08:30 **Probing NP in four-fermion interactions with dipole processes**

Speaker

Luiz Vale Silva

08:30–08:45 **BSM search in rare muon decay: the MEG II experiment**

Speaker

Kei Ieki

08:45–09:00

The COMET experiment: A search for muon-to-electron conversion at J-PARC

Speaker

Hajime Nishiguchi

09:00–09:15

An Experimental Search for Muon-Electron Conversion in Nuclear Field with Muonic Atoms Produced in a Primary Proton Target ---DeeMe---

Speaker

Dr Masaharu Aoki

09:15–09:22 **Coffee break**

09:22–09:37 **Confronting quark-lepton unification with LFUV**

Speaker

Matej Hudec

09:37–09:52

Lepton Flavour Universality tests in electroweak penguin decays at LHCb

Speaker

Carla Marin Benito

09:52–10:07

Complementary test of lepton flavor universality violation in $B_{s,l} \rightarrow \ell \ell' f_{2\prime} \rightarrow K^+ K^- \mu^+ \mu^-$ decays

Speaker

Mr Rajeev N

10:07–10:22

Tests of lepton flavour universality and a search for lepton and baryon number violation at Belle

Speaker

Debashis Sahoo

10:22-10:37 **The Data Driven Flavour Model****Speaker**

Luca Merlo

10:37-10:52

Search for the Lepton Flavour Violating decays $\Upsilon(3\mathrm{S}) \rightarrow e^{\pm}\mu^{\mp}$ and $\Upsilon(2\mathrm{S}) \rightarrow e^{\pm}\mu^{\mp}$

Speaker

Nafisa Tasneem

10:52-11:07

Lepton flavour violation in hadron tau decays and ℓ - τ conversion in nuclei

Speaker

Dr Tomas Husek

11:07-11:22 **Tau physics prospects at Belle II****Speaker**

Kenji Inami

11:22-11:29 **Coffee break**

11:29-11:44

Angular analysis of modes with $b \rightarrow c \ell \bar{\nu}$ transition and new physics

Speaker

Rusa Mandal

11:44-11:59

Signatures of complex new physics in $b \rightarrow c \ell \bar{\nu}$ anomalies

Speaker

Suman Kumbhakar

11:59-12:14 **Leptonic and semileptonic decays with taus at the Belle II experiment****Speaker**

Marco Milesi

12:14-12:29 **Flavourful Inert Doublet Dark Matter****Speaker**

Lopamudra Mukherjee

12:29-12:44 **Flavor Phenomenology with Scalar Leptoquarks****Speaker**

Damir Becirevic

12:44-12:59

A novel computational paradigm for a precise determination of the hadronic contribution to $(g-2)_\mu$ from lattice QCD

Speaker

Leonardo Giusti

12:59-13:14

Measurement of muon $g-2$ /EDM at J-PARC

Speaker

Hiroshi Inuma

13:17

15:30

20:30

Quark and Lepton Flavour Physics: Session IV - Replay

Session | **Location:** virtual conference