

Session Program

17-24 Jul 2024

ICHEP 2024

Quark and Lepton Flavour Physics

Prague

Thursday 18 July

08:30

Quark and Lepton Flavour Physics: Quark and Lepton Flavour Physics

Session | Location: South Hall 1B | Conveners: Weimin Song, Tomas Jakoubek

08:30–08:45

Search for Physics beyond the Standard Model at NA62

Speaker

Renato Fiorenza

08:45–09:00

New results from analyses of rare kaon and pion decays at the NA62 experiment

Speaker

Atakan Tugberk Akmete

09:00–09:15

The search for $K_L \rightarrow \pi^0 \nu \overline{\nu}$ in the KOTO experiment

Speaker

Joseph Redeker

09:15–09:30

KOTO II at J-PARC to measure the branching ratio of K_L to $\pi^0 \nu \overline{\nu}$

Speaker

Hajime Nanjo

09:30–09:45

Progress in the Unitarity Triangles (UTs) and in CP violation

Speaker

Amarjit Soni

09:45–10:00

Hyperon physics at BESIII

Speaker

Wenjing Zheng

10:00–10:15

Testing CPT symmetry with multistrange baryons mass precision measurements with ALICE

Speaker

Romain Schotter

10:15

10:45

Quark and Lepton Flavour Physics: Quark and Lepton Flavour Physics

Session | Location: South Hall 1B | Conveners: Stefan Schacht, Lucia Grillo

10:45–11:00

Run-2/3 measurement of the muon anomalous magnetic moment by the Muon g-2 experiment at Fermilab

Speaker

Prof. Kim Siang Khaw

11:00-11:15

Measurement of the anomalous spin precession frequency ω_a in the Muon $g - 2$ experiment at Fermilab

Speaker
Lorenzo Cotrozzi

11:15-11:30

Combination of highly correlated measurements of the muon precession frequency in magnetic field for the FNAL measurement of the muon magnetic anomaly

Speaker
Alberto Lusiani

11:30-11:45

Measurement of the $e^+e^- \rightarrow \pi^+\pi^- \pi^0$ cross section in the centre-of-mass range 0.62 to 3.5 GeV at Belle II

Speakers
Yuki Sue, Yuki Sue

11:45-12:00

LFV muon decays study with neutrino NSI

Speaker
Anjan Giri

12:00-12:15

The latest results of the MEG II experiment

Speaker
Dr Wataru Otani

12:15-12:30

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

Speaker
Hajime Nishiguchi

12:30

14:30

Quark and Lepton Flavour Physics

Session | **Location:** South Hall 1B | **Conveners:** Weimin Song, Tomas Jakoubek

14:30-14:45

Status of the muEDM experiment at PSI

Speaker
Francesco Renga

14:45-15:00

In search of New Physics with Lepton Flavor Violation in $Y(3S) \rightarrow e \pm \mu \mp$

Speaker
Nafisa Tasneem

15:00-15:15

Searches for lepton-flavour violation in τ decays at Belle and Belle II

Speaker
Wenzhe Li

15:15-15:30

Precision measurements of τ lepton decays at Belle II

Speaker
Gianluca Inguglia

15:30-15:45 **Heavy flavor studies at ILC**

Speaker

Andrej Saibel

15:45-16:00 **Flavour and tau physics at FCC-ee**

Speaker

Aidan Richard Wiederhold

16:00-16:15 **Status of Chiral Belle: The Beam Polarization Upgrade of SuperKEKB**

Speaker

Prof. Michael Roney

16:15

16:45

Quark and Lepton Flavour Physics: Quark and Lepton Flavour Physics

Session | Location: South Hall 1B | Conveners: Stefan Schacht, Lucia Grillo

16:45-17:00 **Flavor Physics at the CEPC**

Speaker

Manqi Ruan

17:00-17:15

Precision measurements of charged pion decays with the PIONEER Experiment

Speaker

Toshiyuki Iwamoto

17:15-17:30 **Measurements of V_{cb} and V_{ub} at Belle and Belle-II**

Speaker

Michele Aversano

17:30-17:45

Truncation orders, external constraints, and the determination of $|V_{cb}|$

Speaker

Mr Eric Persson

17:45-18:00

The role of ρ - ω interference in semileptonic $B \rightarrow \pi^+ \pi^- \ell \bar{\nu}_\ell$ decays

Speaker

Florian Urs Bernlochner

18:00-18:15

Analyzing semileptonic $b \rightarrow u$ transitions with vector and scalar leptoquarks

Speaker

Tarun Kumar

18:30

Friday 19 July

08:30

Quark and Lepton Flavour Physics: Quark and Lepton Flavour Physics

Session | Location: South Hall 1B | Conveners: Weimin Song, Stefan Schacht

08:30–08:45 **LHCb measurements on semileptonic decays of b-hadrons**

Speaker

Anna Lupato

08:45–09:00 **Precision calculations in B physics**

Speaker

Matthias Steinhauser

09:00–09:15

Pushing the Heavy Quark Expansion for $b \rightarrow c \ell \bar{\nu}$ to higher order in $1/m_b$

Speaker

Ilija Sibir Milutin

09:15–09:30

Model-independent extraction of form-factors and $|V_{cb}|$ in $\overline{B} \rightarrow D^{(*)} \ell \bar{\nu}$ with hadronic tagging at BABAR

Speaker

Gerald Eigen

09:30–09:45

Kolya and New results on inclusive $|V_{cb}|$ using E_ℓ , M_X , and q^2 spectral moments

Speaker

Matteo Fael

09:45–10:00 **$\Lambda_b \rightarrow \Lambda_c^*$ at $O(1/m_c^2)$ in heavy quark expansion**

Speaker

Davide Iacobacci

10:00–10:15 **The Mu2e Experiment**

Speaker

Sophie Middleton

10:15

10:45

Quark and Lepton Flavour Physics: Quark and Lepton Flavour Physics

Session | Location: South Hall 1B | Conveners: Tomas Jakoubek, Lucia Grillo

10:45–11:00

Calibration of the Mu2e momentum scale using $\pi^+ \rightarrow e^+ \nu_e$ decays

Speaker

Dr Sridhar Tripathy

11:00-11:15

Measurements of lepton-flavour universality in semileptonic $B \rightarrow \ell \ell$ decays at Belle and Belle-II**Speaker**

Markus Tobias Prim

11:15-11:30

An Updated Estimation of CP violating Electric Dipole Moments from known mechanisms in the Standard Model**Speaker**

Prajwal MohanMurthy

11:30-11:45

Lepton Flavour Universality tests using semileptonic b-hadron decays**Speaker**

Dr Phoebe Hamilton

11:45-12:00

Taming second order power corrections and updated predictions for $R(D/D^*)$ and $R(\Lambda_c)$ within and beyond the Standard Model**Speaker**

Markus Tobias Prim

12:00-12:15

An Imperative study of the angular observables in $\Lambda_b^0 \rightarrow \Lambda_c^+ (\rightarrow \Lambda \pi^+) \tau \bar{\nu}_\tau$ decay in SM and in new physics**Speaker**

Ria sain

12:15-12:30

Lepton flavour violation studies at CMS**Speaker**

Chiara Ilaria Rovelli

12:30

14:30

Quark and Lepton Flavour Physics: Quark and Lepton Flavour Physics**Session** | **Location:** South Hall 1B | **Conveners:** Tomas Jakoubek, Lucia Grillo

14:30-14:45

Search for Charged Lepton Flavor Violation at future lepton colliders with Z' model**Speaker**

Jingshu Li

14:45-15:00

Short- vs long-distance dynamics in $b \rightarrow s \ell \ell$ decays**Speaker**

Arianna Tinari

15:00-15:15

Analysis of local and non-local amplitudes in the $B^0 \rightarrow K^{*0} \mu^+ \mu^-$ decay**Speaker**

Martin Andersson

15:15-15:30

Tests of Lepton Flavour Universality at LHCb

Speaker
Rafael Silva Coutinho

15:30-15:45 **cLFV searches in B decays at LHCb**

Speaker
Tommaso Fulghesu

15:45-16:00 **Rare and forbidden decays at CMS**

Speaker
Stefanos Leontsinis

16:00-16:15 **Search for Very Rare Decays at LHCb**

Speaker
Giulia Frau

16:15

16:45

Quark and Lepton Flavour Physics: Quark and Lepton Flavour Physics

Session | Location: South Hall 1B | Conveners: Weimin Song, Stefan Schacht

16:45-17:00

Measurements of electroweak penguin and lepton-flavour violating $B \rightarrow K^* \ell \ell$ decays to final states with missing energy at Belle and Belle-II

Speaker
Meihong Liu

17:00-17:15 **Understanding the first observation of $B \rightarrow K^* \nu \nu$ by Belle-II**

Speaker
Dr Olcyr Sumensari

17:15-17:30

Measurements of radiative and electroweak penguin $B \rightarrow K^* \ell \ell$ decays without missing energy at Belle and Belle-II

Speaker
Martin Angelsmark

17:30-17:45 **Radiative b-hadron decays at LHCb**

Speaker
Aniol Lobo Salvia

17:45-18:00 **Weak decays of beauty baryons at LHCb**

Speaker
Ulrik Egede

18:00-18:15

Flavourful global fit to LHCb data with the general two Higgs doublet model: An update

Speaker
Dr Cristian Felipe Sierra Fonseca

18:15-18:30 **Beauty baryon decays at LHCb**

Speaker
Yanxi Wu

18:30

Saturday 20 July

08:30

Quark and Lepton Flavour Physics: Quark and Lepton Flavour Physics

Session | Location: South Hall 1B | Conveners: Lucia Grillo, Weimin Song

08:30–08:45 **CMS results on flavour spectroscopy**

Speaker

Alexis Pompili

08:45–09:00 **Studies of hadron spectroscopy at Belle and Belle II**

Speaker

Roman Mizuk

09:00–09:15 **Spectroscopy studies with B- \rightarrow DDX decays at LHCb**

Speaker

Raul Rabadan

09:15–09:30 **Charmed hadron properties and spectroscopy at LHCb**

Speaker

Miroslav Saur

09:30–09:45 **Light Meson decays at BESIII**

Speaker

Benhou Xiang

09:45–10:00 **Measurements of charmonium decays at BESIII**

Speaker

Jipeng Wang

10:00–10:15

Mixing and CP -violation measurements with D^0 mesons at Belle and Belle II

Speaker

Michel Bertemes

10:15

10:45

Quark and Lepton Flavour Physics: Quark and Lepton Flavour Physics

Session | Location: South Hall 1B | Conveners: Tomas Jakoubek, Stefan Schacht

10:45–11:00 **Mixing and time-dependent CP violation in charm decays at LHCb**

Speaker

Roberto Ribatti

11:00–11:15 **CP violation in the decay of charmed hadrons at LHCb**

Speaker

Maurizio Martinelli

11:15–11:30

Combined analysis of D - \bar{D} mixing data. Update from the UFit collaboration.

Speaker

Mr Roberto Di Palma

11:30-11:45

D-Dbar mixings from nonlocal condensate contributions**Speaker**

Blaženka Melić

11:45-12:00

Rare and baryonic decays of charmed hadrons at Belle and Belle-II**Speaker**

Young Jun Kim

12:00-12:15

Looking for New Physics through exclusive $c \rightarrow s e \nu$ decay modes**Speaker**

Dr Damir BECIREVIC

12:15-12:30

Rare charm decays at LHCb**Speaker**

Francesco Dettori

12:30

14:30

Quark and Lepton Flavour Physics: Quark and Lepton Flavour Physics**Session** | **Location:** South Hall 1B | **Conveners:** Weimin Song, Stefan Schacht

14:30-14:45

Charmed baryon decays at BESIII**Speaker**

Dr Cong Geng

14:45-15:00

Charmed meson decays at BESIII**Speaker**

Dr Bo Zheng

15:00-15:15

Lattice QCD and flavor physics**Speaker**

Oliver Witzel

15:15-15:30

Precise decay rates for $\eta_c \rightarrow \gamma \gamma$ and $\eta_b \rightarrow \gamma \gamma$ from lattice QCD**Speaker**

Brian Colquhoun

15:30-15:45

Measurements of hadronic B decay rates at Belle and Belle-II**Speaker**

VISMAYA V S

15:45-16:00

Measurements of charmless three-body decays**Speaker**

Renaud Amalric

16:00-16:15

Beauty to charmonium decays at LHCb**Speaker**

Dr Luis Miguel Garcia Martin

16:15

16:45

Quark and Lepton Flavour Physics: Quark and Lepton Flavour Physics

Session | Location: South Hall 1B | Conveners: Tomas Jakoubek, Lucia Grillo

16:45-17:00 **CPV and lifetime measurements from CMS**

Speaker

Enrico Lusiani

17:00-17:15 **ATLAS results on b hadron weak decays**

Speaker

Alex Cerri

17:15-17:30 **Optimized Observables in non-leptonic decays**

Speaker

Gilberto Tetlalmatzi-Xolocotzi

17:30-17:45 **Time dependent CP violation measurements at LHCb**

Speaker

Aidan Richard Wiederhold

17:45-18:00 **Measurements of $C\!P$ violation in B^0 decays at Belle-II**

Speaker

Dr Yu Nakazawa

18:00-18:15 **Measurements of B mesons mixing phases at LHCb**

Speaker

Mary Richardson-Slipper

18:15-18:30

Global fits of the Unitarity Triangle within the Standard Model. Updates from the UTfit collaboration.

Speaker

Marcella Bona

18:30