Session Program

Jul 24 – 30, 2016

The 34th International Symposium on Lattice Field Theory (Lattice 2016)

Weak Decays and Matrix Elements

Highfield Campus, University of Southampton
Highfield Campus, Southampton SO17 1BJ, UK

Wed, July 27

9:00 AM

Weak Decays and Matrix Elements: Weak Decays and Matrix Elements

Session | **Location:** Highfield Campus, University of Southampton, Building B2a Room 2065 | **Convener:** Prof. Stefan Meinel

9:00 – 9:20 AM

Heavy-heavy current improvement for calculation of $\bar{B}\rightarrow D^{(*)} \ell \bar{\nu}$ semi-leptonic form factors using the Oktay-Kronfeld action -- 1

Speaker
Dr Jon Bailey

9:20 – 9:40 AM

$|V_{cb}|$ from $\bar{B}^0\rightarrow D^{*+} \ell^- \bar{\nu} $ zero-recoil form factor using 2$+$1$+$1 flavour HISQ and NRQCD

Speaker
Mr Judd Harrison

9:40 – 10:00 AM **B_c decays from highly improved staggered quarks and NRQCD**

Speaker
Dr Andrew Lytle

10:00 – 10:20 AM

$B_{(s)}\to D_{(s)}$ semileptonic decays with NRQCD-HISQ valence quarks

Speaker
Dr Chris Monahan

10:20 – 10:40 AM **Semi-leptonic B decays with charming final state**

Speaker
Dr Oliver Witzel

10:40 – 11:00 AM

Calculation of hadronic matrix elements contributing to the $B_s-\bar{B}_s$ width difference

Speaker
Dr Matthew Wingate

11:00 AM

11:30 AM

Weak Decays and Matrix Elements

Session | **Location:** Highfield Campus, University of Southampton, Building B2a Room 2065 | **Convener:** Dr Takashi Kaneko

11:30 – 11:50 AM **Current correlators in the coordinate space at short distances**

Speaker
Mr Masaaki Tomii

11:50 AM – 12:10 PM

Electromagnetic corrections to leptonic decay rates of charged pseudoscalar mesons: finite volume effects.

Speaker
Dr Nazario Tantalo

12:10 – 12:30 PM

Electromagnetic corrections to the leptonic decay rates of charged pseudoscalar mesons: lattice results

Speaker
Dr Silvano Simula

12:30 PM

Thu, July 28

2:00 PM

Weak Decays and Matrix Elements

Session |
Location: Highfield Campus, University of Southampton, Building 67 Room 1003, Highfield Campus, Southampton SO17 1BJ, UK |
Convener: Prof. Vittorio Lubicz

2:00 – 2:20 PM

Chiral Perturbation Theory at finite volume or with twisted boundary conditions

Speaker
Prof. Johan Bijnens

2:20 – 2:40 PM

Kaon semileptonic decays with $N_f=2+1+1$ HISQ fermions and physical light quark masses

Speaker
Dr Elvira Gamiz

2:40 – 3:00 PM

Leptonic decay-constant ratio f_K/f_π from clover-improved $N_f=2+1$ QCD

Speaker
Dr Enno E. Scholz

3:00 – 3:20 PM

Towards a determination of the ratio of the kaon to pion decay constants

Speaker
Dr Roger Horsley

3:20 – 3:40 PM

Vus from inclusive determinations based on hadronic tau data

Speaker
Kim Maltman

3:40 – 4:00 PM

Vus from inclusive strange tau decay data and lattice HVP

Speaker
Dr Hiroshi Ohki

4:00 PM

4:30 PM

Weak Decays and Matrix Elements

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Convener: Dr Nazario Tantalo

4:30 – 4:50 PM

Towards a non-perturbative calculation of the weak Hamiltonian Wilson coefficients

Speaker
Dr Mattia Bruno

4:50 – 5:10 PM

Progress in the calculation of epsilon' on the lattice

Speaker
Dr Christopher Kelly

5:10 – 5:30 PM

Progress on the lattice QCD calculation of the rare kaon decays: K+ -> pi+ nu nu-bar

Speaker
Prof. Norman Christ

5:30 – 5:50 PM **long distance part of ϵ_K from lattice QCD**

Speaker
Mr Ziyuan Bai

5:50 – 6:10 PM

Progress on the lattice QCD calculation of rare kaon decays: K+ -> pi+ l+ l-

Speaker
Mr Andrew Lawson

6:30 PM

Fri, July 29

2:00 PM

Weak Decays and Matrix Elements

Session | **Location:** Highfield Campus, University of Southampton, Building 67 Room 1003 | **Convener:** Dr Mattia Bruno

2:00 – 2:20 PM **Charm Physics with Domain Wall fermions**

Speaker
Mr Justus Tobias Tsang

2:20 – 2:40 PM

D meson semileptonic decays in lattice QCD with Moebius domain-wall quarks

Speaker
Dr Takashi Kaneko

2:40 – 3:00 PM **Hypercubic effects in semileptonic $D \to \pi$ decays on the lattice**

Speaker
Giorgio Salerno

3:00 – 3:20 PM

Masses and decay constants of D *(s) and B *(s) mesons in Lattice QCD with Nf=2+1+1 Twisted fermions

Speaker
Aurora Melis

3:20 – 3:40 PM

D meson semileptonic form factors with HISQ valence and sea quarks

Speaker
Prof. Steven Gottlieb

3:40 – 4:00 PM **D-Meson Mixing in 2+1 Lattice QCD and Related Topics**

Speaker
Dr Andreas Kronfeld

4:00 PM

4:30 PM

Weak Decays and Matrix Elements

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Convener: Dr Oliver Witzel

4:30 – 4:50 PM

Decay constants f_B and f_{B_s} and quark masses m_b and m_c from HISQ simulations

Speakers
Claude Bernard, Javad Komijani

4:50 – 5:10 PM

Lattice QCD calculation of form factors for $\Lambda_b \to \Lambda(1520) \ell^+ \ell^-$ decays

Speaker
Prof. Stefan Meinel

5:10 – 5:30 PM **Semi-leptonic form factors for rare B decays**

Speaker
Mr Edwin Lizarazo

5:30 – 5:50 PM **$B\to\pi$ semileptonic decay form factors with NRQCD/HISQ quarks**

Speaker
Dr Chris Bouchard

5:50 – 6:10 PM

Form factors in the $B_s --> K l \nu$ decays using HQET and the lattice

Speaker
Dr Debasish Banerjee

6:10 – 6:30 PM

Extraction of the bare form factors for the semi-leptonic B_s decays

Speaker
Dr Mateusz Koren

6:30 PM