

Session Program

16-22 Jun 2019



The 37th International Symposium on Lattice Field Theory (Lattice 2019)

Weak Decays and Matrix Elements

Monday 17 June

14:20

Weak Decays and Matrix Elements

Session | Location: Shimao 5 | Convener: Stefan Meinel

14:20-14:40

New approaches to semileptonic decays

Speaker

Guido Martinelli

14:40-15:00

The $B \rightarrow D^* \ell \bar{\nu}$ semileptonic decay at nonzero recoil and its implications for $|V_{cb}|$ and $R(D^*)$

Speaker

Dr Alejandro Vaquero Avilés-Casco

15:00-15:20

$B \rightarrow D^{(*)} \ell \bar{\nu}$ form factors from lattice QCD with relativistic heavy quarks

Speaker

Takashi Kaneko

15:20-15:40

$B_c \rightarrow B_{(s)}(d)$ form factors with NRQCD and HISQ

Speaker

Laurence Cooper

15:40-16:00

An exploratory study of heavy-light semileptonics using distillation

Speaker

Felix Erben

16:00

16:30

Weak Decays and Matrix Elements

Session | Location: Shimao 5 | Convener: Takashi Kaneko

16:30-16:50

$B \rightarrow \pi \ell \bar{\nu}$ form factors and $|V_{ub}|$ with Möbius domain wall fermions

Speaker

Jonna Koponen

16:50-17:10

Semileptonic B decays with RHQ b quarks

Speaker

Ryan Hill

17:10-17:30

B-meson semileptonic form factors on (2+1+1)-flavor HISQ ensembles

Speaker

Dr Zechariah Gelzer

17:30-17:50

$B \rightarrow \pi \ell \bar{\nu}$ and $B \rightarrow \pi \ell \bar{\ell}$ decay form factors from HISQ/NRQCD valence quarks on the $N_f = 2+1$ asqtad ensembles

17:50

Speaker

Dr Chris Bouchard

Tuesday 18 June

14:20

Weak Decays and Matrix Elements

Session | Location: Shimao 5 | Convener: Chris Bouchard

14:20-14:40

Extraction of CKM matrix elements from lattice QCD results using dispersion relations

Speaker

De-Liang Yao

14:40-15:00

Study of intermediate states in the inclusive semi-leptonic $B \rightarrow X_c l \nu$ decay structure functions

Speaker

Gabriela Bailas

15:00-15:20

Charmonium contribution to $B \rightarrow K l^+ l^-$: testing the factorization approximation on the lattice

Speaker

Katsumasa NAKAYAMA

15:20-15:40

Radiative leptonic decays on the lattice

Speaker

Prof. Stefan Meinel

15:40-16:00

Neutral meson mixing and related observables in the $D(s)$ and $B(s)$ meson systems

Speaker

J Tobias Tsang

16:00

16:30

Weak Decays and Matrix Elements

Session | Location: Shimao 5 | Convener: Dr Antonin Portelli

16:30-16:50

Semileptonic $D \rightarrow K$ decay from full lattice QCD with HISQ

Speaker

Bipasha Chakraborty

16:50-17:10

$K_{\{13\}}$ form factors in $N_f = 2+1$ QCD at physical point on large volume

Speaker

Junpei Kakazu

17:10-17:30

Lattice QCD calculation of the two-photon contributions to $K_L \rightarrow \mu^+ \mu^-$ and $\pi^0 \rightarrow e^+ e^-$ decays

Speaker

Prof. Norman Christ

17:30-17:50

Calculating the two-photon contribution to the real part of the $\pi^0 \rightarrow e^+ e^-$ decay amplitude

Speaker

Yidi Zhao

17:50

Wednesday 19 June

11:10

Weak Decays and Matrix Elements

Session | **Location:** Shimao 5 | **Convener:** Christopher Kelly

11:10-11:30

Electromagnetic corrections to leptonic pion decay from lattice QCD using infinite-volume reconstruction method

Speaker

Xu Feng

11:30-11:50

Radiative Corrections to Semileptonic Decay Rates

Speaker

Prof. Christopher Sachrajda

11:50-12:10

A strategy for the calculation of disconnected contributions to QED and strong isospin-breaking effects.

Speaker

James Richings

12:10-12:30

Electromagnetic corrections to leptonic decays

Speaker

Antonin Portelli

12:30

Friday 21 June

16:10

Weak Decays and Matrix Elements

Session | **Location:** Shimao 5 | **Convener:** Andrew Lytle

16:10-16:30

Calculation of the $K_L - K_S$ mass difference for physical quark masses

Speaker

Mr Bigeng Wang

16:30-16:50

Investigating Rare Kaon Decays with the All-to-All Method

Speaker

Fionn O hOgain

16:50-17:10

S-wave $\pi\pi$ $I=0$ and $I=2$ scattering at physical pion mass

Speaker

Tianle Wang

17:10-17:30

Update on the improved lattice calculation of direct CP-violation in K decays

Speaker

Dr Christopher Kelly

17:30-17:50

Charm CP & the lattice

Speaker

Amarjit Soni

17:50