

Lattice 2023

Monday, 31 July 2023

Quark and Lepton Flavor Physics - Hornets' Nest (13:30 - 15:30)

-Conveners: Christopher Bouchard

time	[id] title	presenter
13:30	[84] $B_s \rightarrow K \ell \ell \nu$ form factors from lattice QCD with domain-wall heavy quarks.	MOHANTA, Protick
13:50	[244] Semileptonic form factors for exclusive $B_s \rightarrow K \ell \ell \nu$ decays	HILL, Ryan
14:10	[376] Form factors for semileptonic B-decays with HISQ light quarks and clover b-quarks in Fermilab interpretation	JEONG, Hwancheol
14:30	[103] Bayesian inference for form-factor fits regulated by unitarity and analyticity	JUETTNER, Andreas
14:50	[117] Semileptonic Form Factors for $B \rightarrow D^{*} \ell \ell \nu$ Decays using the Oktay-Kronfeld Action	CHOI, Benjamin Jaedon
15:10	[196] Hadronic susceptibilities for b to c transitions from two point correlation functions	MELIS, Aurora

Quark and Lepton Flavor Physics - Hornets' Nest (16:00 - 17:40)

-Conveners: Masaaki Tomii

time	[id] title	presenter
16:00	[323] B-meson semileptonic decays from highly improved staggered quarks	LYTLE, Andrew
16:20	[86] Status of next-generation $\Lambda_b \rightarrow p, \Lambda, \Lambda_c$ form-factor calculations	MEINEL, Stefan
16:40	[104] Form factors for the charm-baryon semileptonic decay $\Xi_c \rightarrow \Xi \ell \ell \nu$ from domain-wall lattice QCD	FARRELL, Callum
17:00	[125] Chebyshev and Backus-Gilbert reconstruction for inclusive semileptonic $B_{(s)}$ -meson decays from Lattice QCD	BARONE, Alessandro
17:20	[124] Studies on finite-volume effects in the inclusive semi-leptonic decays of charmed mesons	KELLERMANN, Ryan

Tuesday, 1 August 2023

Quark and Lepton Flavor Physics - Hornets' Nest (13:30 - 15:30)

-Conveners: **Jonna Koponen**

time	[id] title	presenter
13:30	[354] Computing hadronic vacuum polarization on 0.048 fm lattices with GPUs	WANG, Gen
13:50	[46] Status of RBC/UKQCD g-2 program	LEHNER, Christoph
14:10	[288] A status update of Fermilab/HPQCD/MILC Collaborations muon g-2 project	LAHERT, Shaun
14:30	[342] The mixing of two-pion and vector-meson states using staggered fermions	FRECH, Fabian Justus
14:50	[145] Coordinate-space calculation of isospin breaking corrections to the hadronic vacuum polarization contribution to $(g-2)_{\mu}$	PARRINO, Julian
15:10	[191] Data-driven determination of the light-quark connected component of the intermediate-window contribution to $g_{\mu-2}$.	GOLTERMAN, Maarten

Quark and Lepton Flavor Physics - Hornets' Nest (16:20 - 18:00)

-Conveners: **Maarten Golterman**

time	[id] title	presenter
16:20	[358] Hadronic vacuum polarization: comparing lattice QCD and data-driven results in systematically improvable ways	LELLOUCH, Laurent
16:40	[181] Pseudoscalar transition form factors and the hadronic light-by-light contribution to the muon $g-2$	VERPLANKE, Willem
17:00	[231] Pseudoscalar-pole contributions to HLbL at the physical point	BURRI, Sebastian Andreas
17:20	[242] Status update: $\pi^0 \rightarrow \gamma^* \gamma^*$ transition form factor on CLS ensembles	KOPONEN, Jonna
17:40	[246] Investigation of the hadronic light-by-light contribution to the muon $g_{\mu-2}$ using staggered fermions	ZIMMERMANN, Christian

Wednesday, 2 August 2023

Quark and Lepton Flavor Physics - Hornets' Nest (09:00 - 10:40)

-Conveners: Andreas Juettner

time	[id] title	presenter
09:00	[109] Nonperturbative renormalization of HQET operators in position space	LIN, Joshua
09:20	[340] B(s)-mixing parameters from all-domain-wall-fermion simulations	TSANG, Justus Tobias
09:40	[22] Using Gradient Flow to Renormalise Matrix Elements for Meson Mixing and Lifetimes	BLACK, Matthew
10:00	[385] A strategy for B-physics observables in the continuum limit	SOMMER, Rainer
10:20	[197] m_b and $f_{B^{(*)}}$ of 2+1 flavor QCD from a combination of continuum limit static and relativistic results.	CONIGLI, Alessandro

Thursday, 3 August 2023

Quark and Lepton Flavor Physics - Hornets' Nest (13:30 - 15:30)

-Conveners: Jun-sik Yoo

time	[id] title	presenter
13:30	[105] $K_L \rightarrow \mu^+ \mu^-$ from lattice QCD	CHAO, En-Hung
13:50	[219] Comparing phenomenological estimates of dilepton decays of pseudoscalar mesons with lattice QCD	HOID, Bai-Long
14:10	[70] Rare K decays off and on the lattice	SONI, amarjit
14:30	[146] New result for ν in $K \rightarrow \pi \pi$ decay using periodic boundary conditions	TOMII, Masaaki
14:50	[333] Towards hadronic D decays at the SU(3) flavour symmetric point	HANSEN, Maxwell
15:10	[165] Status of the exploratory calculation of the rare hyperon decay	HODGSON, Raoul

Quark and Lepton Flavor Physics - Hornets' Nest (16:00 - 18:00)

-Conveners: Justus Tobias Tsang

time	[id] title	presenter
16:00	[256] Light meson decay constants from Möbius domain-wall fermions on gradient flowed HISQ ensembles	HALL, Zack
16:20	[78] V_{us} from kaon semileptonic form factor in $N_f = 2+1$ QCD at the physical point on $(10 \text{ fm})^4$	YAMAZAKI, Takeshi
16:40	[199] Inclusive hadronic decay rate of the τ lepton from lattice QCD	EVANGELISTA, Antonio
17:00	[185] Towards charm physics with stabilised Wilson Fermions	KUHLMANN, Justus
17:20	[61] Structure-dependent form factors in radiative leptonic decays of the D_s meson with Domain Wall fermions	GIUSTI, Davide
17:40	[250] Operator mixing and non-perturbative running of $\Delta F=2$ four-fermion operators	MARINELLI, Riccardo

Friday, 4 August 2023

Quark and Lepton Flavor Physics - Hornets' Nest (09:00 - 10:40)

-Conveners: Steven Gottlieb

time	[id] title	presenter
09:00	[93] Lattice Calculation of Electromagnetic Corrections to K_{l3} decay	CHRIST, Norman
09:20	[129] Structure-dependent electromagnetic finite-volume effects through order $\mathcal{O}(1/L^3)$	HERMANSSON TRUEDSSON, Nils
09:40	[229] Finite-volume collinear divergences in radiative corrections to meson leptonic decays	PORTELLI, Antonin
10:00	[324] Radiative Electroweak box correction to pion, kaon and Nucleon β decay	YOO, Jun-sik