



# Lattice 2024

## Monday, 29 July 2024

### Quark and lepton flavour physics: LT3 (11:15 - 13:15)

-Conveners: Jonathan Flynn

time	[id] title	presenter
11:15	[390] Status of the ETMC calculation of $a_{\mu}^{\text{HVP}}$ in isoQCD	GAROFALO, Marco
11:35	[123] $\pi^0 \rightarrow \gamma^* \gamma^*$ transition form factor and the pion pole contribution to $a_{\mu}$ on CLS ensembles	KOPONEN, Jonna
11:55	[115] Status of the RBC/UKQCD HVP program	LEHNER, Christoph
12:15	[439] Analysis of g-2 long distance two-pion correlators for the reconstruction of light vector correlators	MCKEON, Joe
12:35	[314] Hadronic vacuum polarization contribution to the muon g-2 at short and long distances	KUBERSKI, Simon
12:55	[487] Hadronic $\tau$ data and Lattice QCD+QED simulations for the muon g-2	BRUNO, Mattia

### Quark and lepton flavour physics: LT3 (14:15 - 16:15)

-Conveners: Craig McNeile

time	[id] title	presenter
14:15	[105] Status report on the hadronic light-by-light contribution to the muon g-2 using twisted-mass fermions.	KALNTIS, Nikolaos
14:35	[213] The hadronic light-by-light contribution to the muon $g-2$ using staggered fermions at the physical point	ZIMMERMANN, Christian
14:55	[247] Lattice QCD calculation of pion pole's contribution to HLbL	Mr LIN, Tian
15:15	[227] Progress on the Hadronic vacuum polarization contribution to muon g-2 from lattice QCD	MONINGI, Vaishakhi
15:35	[447] Structure-dependent electromagnetic finite-volume effects to the hadronic vacuum polarisation	HERMANSSON-TRUEDSSON, Nils
15:55	[449] finite-volume effects on the LO-HVP contribution to the muon g-2	LUPO ON BEHALF OF THE BMW AND DMZ COLLABORATIONS, Alessandro

# Tuesday, 30 July 2024

## Quark and lepton flavour physics: LT3 (11:15 - 12:35)

-Conveners: Patrick Fritzsich

time	[id] title	presenter
11:15	[355] Virtual radiative Leptonic decays of charged Kaons	DI PALMA (ON BEHALF OF THE RM123 COLLABORATION), Roberto
11:35	[274] Form factor curves consistent with unitarity for semileptonic decays	RADLEY-SCOTT, Callum
11:55	[197] Gradient Flow Renormalisation for Meson Mixing and Lifetimes	BLACK, Matthew
12:15	[483] $B^{(*)} \rightarrow \pi$ excited-state contamination in B-physics observables	GERARDIN, Antoine

## Quark and lepton flavour physics: LT3 (13:45 - 15:45)

-Conveners: Tetsuya Onogi

time	[id] title	presenter
13:45	[131] Lattice QCD calculation of the semileptonic decay $J/\psi \rightarrow D/D_s \ell \bar{\nu}_\ell$	MENG, Yu
14:05	[257] Form factors for semi-leptonic $B_{(s)} \rightarrow D_{(s)} \ell \bar{\nu}_\ell$ decays	BOUSHMELEV, Anastasia
14:25	[326] $B \rightarrow D^{(*)}$ decays from $N_f=2+1+1$ highly improved staggered quarks and clover $b$ -quark in the Fermilab interpretation.	BUTTI, Pietro
14:45	[396] Towards more accurate $B_{(s)} \rightarrow \pi(K)$ and $D_{(s)} \rightarrow \pi(K)$ form factors	ROBERTS, Logan
15:05	[387] Inclusive semileptonic $D_s \rightarrow X \ell \bar{\nu}_\ell$ decay from lattice QCD	Dr DE SANTIS, Alessandro
15:25	[140] Semileptonic Inclusive Decay of the $D_s$ Meson	GROSS, Christiane

## Quark and lepton flavour physics: LT3 (16:15 - 17:15)

-Conveners: Antoine Gerardin

time	[id] title	presenter
16:15	[415] $B_s \rightarrow \mu^+\mu^- \gamma$ & $B_s \rightarrow \pi \gamma$ decay rates from $N_f=2+1+1$ twisted mass simulations	Dr SANFILIPPO, Francesco
16:35	[358] Update of HPQCD $B_c \rightarrow J/\psi$ Form Factors	Dr HARRISON, Judd
16:55	[126] Heavy-light Meson Decay Constants and Hyperfine Splittings with the Heavy-HISQ Method	MILLER, Kerr

# Wednesday, 31 July 2024

## Quark and lepton flavour physics: LT3 (11:15 - 12:55)

-Conveners: **Jonna Koponen**

time	[id] title	presenter
11:15	[116] Divide and conquer the sea of quarks: an application to the HVP short-distance window	SPIEGEL, Sebastian
11:35	[464] Machine-learning techniques as noise reduction strategies in lattice calculations of the muon $a_\mu$	WITTIG, Hartmut
11:55	[460] Preliminary results for the short-distance window contribution to the muon $a_\mu$	KOTOV, Andrey
12:15	[223] Short- and intermediate-distance HVP contributions to muon $a_\mu$	LAHERT, Shaun
12:35	[160] Light-quark connected HVP contributions to muon $a_\mu$	LYNCH, Michael

# Thursday, 1 August 2024

## Quark and lepton flavour physics: LT3 (09:00 - 11:00)

-Conveners: Simon Kuberski

time	[id] title	presenter
09:00	[231] Disconnected contribution to the muon $g-2$ hadronic vacuum polarization	CLARKE, David Anthony
09:20	[235] Strong isospin breaking correction to hadronic vacuum polarization for the muon $g-2$	SITISON, Jake
09:40	[138] UV-finite QED correction to the hadronic vacuum polarization contribution to $(g-2)_{\mu}$	PARRINO, Julian
10:00	[137] The isospin-violating part of the hadronic vacuum polarisation	ERB, Dominik
10:20	[388] Valence leading isospin breaking contributions to $a_{\mu}^{\text{HVP-LO}}$	EVANGELISTA, Antonio
10:40	[471] Checks on QED and strong-isospin breaking corrections to the HVP contribution in the standard model prediction of the muon $g-2$	RISCH, Andreas

## Quark and lepton flavour physics: LT3 (11:30 - 12:30)

-Conveners: Oliver Witzel

time	[id] title	presenter
11:30	[184] Study on the P-wave form factors of the $B_s$ to $D_s$ semi-leptonic decays from inclusive lattice simulations	HU, Zhi
11:50	[475] Spectator effects in inclusive lifetimes of heavy hadrons	LIN, Joshua
12:10	[222] Systematic effects in the lattice calculation of inclusive semileptonic decays	KELLERMANN, Ryan

# Friday, 2 August 2024

## Quark and lepton flavour physics: LT3 (11:15 - 13:15)

-Conveners: Tannoy Bhattacharya

time	[id] title	presenter
11:15	[85] Update of kaon semileptonic form factor using $N_f=2+1$ PACS10 configurations	YAMAZAKI, Takeshi
11:35	[371] Split-even approach to the rare kaon decay $K \rightarrow \pi \ell \ell^+ \ell^-$	HODGSON, Raoul
11:55	[186] Two photon contribution to the $K \rightarrow \mu\mu$ decay amplitude on a $1/a \approx 1$ GeV lattice	CHAO, En-Hung
12:15	[127] Contribution of the eta to a lattice calculation of $K \rightarrow \mu\mu$ decay	HU, Ceran
12:35	[125] $\Delta I = 1/2$ process of $K \rightarrow \pi \pi$ decay on multiple ensembles with periodic boundary conditions	TOMII, Masaaki
12:55	[157] Enhanced Lattice QCD Studies on $\epsilon_{K^*}$ and $\Delta M_{K^*}$	HUO, Yikai

## Quark and lepton flavour physics: LT3 (14:15 - 16:15)

-Conveners: Elvira Gamiz

time	[id] title	presenter
14:15	[5] Lattice QCD Calculation of Electroweak Box Contributions to Superaligned Nuclear and Neutron Beta Decays	MA, Peng-Xiang
14:35	[61] Four-quark operators with $\Delta F = 2$ in the GIRS scheme	KOSTA, Marios
14:55	[263] Bringing near-physical QCD+QED calculations beyond the electro-quenched approximation	HILL, Ryan
15:15	[400] Finite-volume formalism for physical processes with an electroweak loop integral	TUO, Xinyu
15:35	[480] On-shell derivation of QED finite-volume effects	DI CARLO, Matteo
15:55	[435] A massive nonperturbative renormalisation scheme for heavy quark observables	MUKHERJEE, Rajnandini