32nd International Symposium on Lattice Field Theory (Lattice 2014)



Contribution ID: 409

Type: Talk

The Kaon Semileptonic Form Factor from Domain Wall QCD at the Physical Point

Monday, 23 June 2014 18:10 (20 minutes)

We present an update on the RBC/UKQCD collaboration's calculation of the kaon semileptonic form factor at zero momentum transfer, $f_{+}^{K\pi}(0)$. This calculation utilizes two new $N_f = 2 + 1$ M\"{o}bius Domain Wall Fermion ensembles which allow us to simulate QCD directly at physical pion mass for the first time. Together with our previous results we now have a complete set of measurements extending from the SU(3)symmetric limit down to the physical point, allowing us to minimize systematic error associated with the chiral extrapolation.

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Track Classification: Weak Decays and Matrix Elements