



Contribution ID: 186

Type: **Parallel**

An exploratory study of heavy-light semileptonics using distillation

Monday 17 June 2019 15:40 (20 minutes)

We present our exploratory study with the aim of simulating heavy-light semileptonics as part of the RBC-UKQCD charm (to bottom) physics programme. We are using a distillation-based setup as a strategy to get optimised plateaus in semi-leptonic $D_{(s)}$ and $B_{(s)}$ decays. The study will be done in a centre-of-mass frame and several moving frames and will use an $N_f = 2 + 1$ domain wall fermion lattice with a pion mass of 340 MeV, with the aim of extending the study to a physical-point domain-wall ensemble.

Authors: ERBEN, Felix (University of Edinburgh); TSANG, J Tobias (The University of Edinburgh); BOYLE, Peter; PORTELLI, Antonin (The University of Edinburgh); Mr MARSHALL, Michael (University of Edinburgh)

Presenter: ERBEN, Felix (University of Edinburgh)

Session Classification: Weak Decays and Matrix Elements

Track Classification: Weak Decays and Matrix Elements