



Contribution ID: 326

Type: Talk

$B \rightarrow D^{(*)}$ decays from $N_f = 2 + 1 + 1$ highly improved staggered quarks and clover b -quark in the Fermilab interpretation.

Tuesday, 30 July 2024 14:25 (20 minutes)

We present an update on the analysis of semileptonic $B \rightarrow D^{(*)}$ decays at non-zero recoil. Our computation employs 2+1+1 FNAL-MILC ensembles with highly improved staggered quark (HISQ) action for sea and light valence quarks, while the bottom quark is treated using the clover action in the Fermilab interpretation. Simulations are performed across several lattice spacings, ranging approximately from ~ 0.15 fm to ~ 0.06 fm, and for various quark masses. We will present an overview of the analysis and show some preliminary results for the form factors.

Primary authors: BUTTI, Pietro (University of Zaragoza); LYTTLE, Andrew (University of Glasgow); GAMIZ, Elvira (University of Granada); DETAR, Carleton (University of Utah); GOTTLIEB, Steven (Indiana University); KRONFELD, Andreas (Fermilab); EL-KHADRA, Aida (University of Illinois Urbana-CHampaign); JEONG, Hwancheol (Seoul National University); LAIHO, Jack (Syracuse University); JAY, William (MIT); Dr VAQUERO, Alejandro (University of Utah)

Presenter: BUTTI, Pietro (University of Zaragoza)

Session Classification: Quark and lepton flavour physics

Track Classification: Quark and Lepton Flavour Physics