



Contribution ID: 255

Type: Poster

Heavy semileptonics with a fully relativistic mixed action

Tuesday 18 June 2019 17:50 (20 minutes)

The first phase of a heavy quark program based on twisted mass valence quarks has been presented at last year's lattice conference. The CLS $N_f = 2 + 1$ ensembles were used for their fine lattice spacing, while twisting the masses is expected to reduce discretisation errors even further and allow for a fully relativistic calculation. In this poster, we present our first preliminary results on three point functions, corresponding to $D \rightarrow K$ and $D \rightarrow \pi$ semileptonic decays. We discuss our discretisation errors and the perspectives for the determination of $|V_{cs}|$ and $|V_{cd}|$, as well as for future uses of this framework for other semileptonic decays.

Authors: FRISON, Julien (Universidad Autonoma Madrid); Dr BUSSONE, Andrea (IFT - Universidad Autonoma de Madrid); HERDOIZA, Gregorio; PENA RUANO, Carlos (Universidad Autonoma de Madrid (ES)); Mr UGARRIO, Javier (IFT - Universidad Autonoma de Madrid); Mr ROMERO, Jose Angel (IFT - Universidad de Madrid)

Presenter: FRISON, Julien (Universidad Autonoma Madrid)

Session Classification: Poster

Track Classification: Weak Decays and Matrix Elements