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Progress report on data analysis of 2 point correlation functions for semileptonic decay $B_{(s)} \rightarrow D_{(s)}^{\ast} \ell \nu$ form factors

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We report recent progress in data analysis on the two point correlation functions which will be used to obtain form factors for the semileptonic decays $B_{(s)} \rightarrow D_{(s)} \ell \nu$. We use a MILC HISQ ensemble ($a = 0.12 fm$ and $m_\pi = 310 MeV$) to produce the measurement data using the HISQ light quarks and Oktay-Kronfeld (OK) action for the heavy quarks ($N_f = 2 + 1 + 1$ flavor). We used a sequential Bayesian method for the analysis and adopt the Newton method to improve the fitting quality and logistics.

Topical area

Hadronic and Nuclear Spectrum and Interactions

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