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Inclusive Semileptonic Decay of the D_s Meson from Lattice QCD

Tuesday, 8 October 2024 10:30 (25 minutes)

We analyse the semileptonic decay of the D_s meson, focusing on the $D_s \rightarrow X \ell \nu$ channel based on Extended Twisted mass ensembles at the physical pion mass value.

On the basis of four-point correlation functions, we use the HLT reconstruction method to calculate the differential decay rate, allowing us to analyse the inclusive decay.

The analysis is performed at four different lattice spacings, and three different volumes to address the associated systematic uncertainties.

Presenter: GROSS, Christiane

Session Classification: Short talks