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Semileptonic Inclusive Decay of the D_s Meson

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We analyse the semileptonic decay of the D_s meson, focusing on the $D_s \rightarrow X \ell \nu$ channel based on an 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.

Primary author: GROSS, Christiane (Extended Twisted Mass Collaboration)

Presenter: GROSS, Christiane (Extended Twisted Mass Collaboration)

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