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Type: **Talk**

Exclusive $B \rightarrow \pi \ell \nu$ semileptonic decays with highly improved staggered quarks

Friday 7 November 2025 14:30 (20 minutes)

We present new results on semileptonic decays of B-mesons using the highly improved staggered quark (HISQ) action for both valence and 2+1+1 sea quarks. Our calculation uses lattice spacings ranging from 0.12 fm down to 0.03 fm, including several ensembles with physical-mass pions. The focus on the talk will be on the vector and scalar form factors for the decay $B \rightarrow \pi \ell \nu$.

Parallel Session (for talks only)

Quark and lepton flavor physics

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Session Classification: Quark and lepton flavor physics