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## **B-meson semileptonic decays from highly improved staggered quarks**

*Monday, 31 July 2023 16:00 (20 minutes)*

We present an update for results on B-meson semileptonic decays using the highly improved staggered quark (HISQ) action for both valence and 2+1+1 sea quarks. The use of the highly improved action, combined with the MILC collaboration's gauge ensembles with lattice spacings down to  $\sim 0.03$  fm, allows the b quark to be treated with the same discretization as the lighter quarks. The talk will focus on updated results for  $B_{(s)} \rightarrow D_{(s)}$ ,  $B_{(s)} \rightarrow K$  scalar and vector form factors.

### **Topical area**

Quark and Lepton Flavor Physics

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