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B_c spectroscopy using highly improved staggered quarks

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Using MILC ensembles of highly improved staggered quarks (HISQ) with lattice spacings down to a=.044 fm, we report results obtained from heavyonium and heavy-charm HISQ correlators. Using HISQ valence quarks on successively finer lattices allows us to simulate near (and in fact just beyond) the b-quark mass.
In particular we focus on the Bc(2S) energy, which we compare with O(α_s)-improved non-relativistic QCD results computed on the same ensembles.

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