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Nucleon form factors with sLapH OR nucleon-pion sigma term from MDWF on HISQ

Tuesday, August 9, 2022 3:20 PM (20 minutes)

I will discuss progress on computing nucleon elastic form factors with the stochastic LapH method.

OR, if results these results are not yet ready,

I will discuss preliminary results on the nucleon-pion sigma term determined with $O(30)$ HISQ ensembles with MDWF valence fermions. The nucleon spectrum results are determined at 7 pion masses in the range $130 < M_{\pi} < 400$ MeV, four lattice spacings in the range $0.06 < a < 0.15$ fm, and several volumes. The nucleon-pion sigma term is determined through a derivative of the extrapolation of the nucleon mass to the physical point.

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