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Investigation of two-particle contributions to nucleon matrix elements

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We investigate contributions of excited states to nucleon matrix elements by studying the two- and three-point functions using nucleon and pion-nucleon interpolating fields. This study is made using twisted mass fermion ensembles with pion masses 346 MeV and 131 MeV. We compare results obtained using these two ensembles and show preliminary results for nucleon charges.

Topical area

Structure of Hadrons and Nuclei

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