Abstract Submitted
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Deuteron electrodisintegration with variable-resolution Hamiltonians[1] SUSHANT MORE, RICHARD FURNSTAHL, Ohio State Univ - Columbus, KAI HEBELER, Institut für Kernphysik, Technische Universität Darmstadt, SEBASTIAN KÖNIG, Ohio State Univ - Columbus — Renormalization group (RG) methods used to soften Hamiltonians for nuclear many-body calculations change the effective resolution of nuclei. For nucleon knock-out processes, these RG transformations leave cross sections invariant but initial wave functions, interaction currents, and final state interactions are individually altered. We use Deuteron electrodisintegration as a controlled theoretical laboratory for studying how these nuclear structure and reaction components are modified with changes in the resolution of the Hamiltonians. The implications for factorizing structure and reactions will also be discussed.

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