

Tracing the virtual nd state with Halo/cluster EFT

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It is known that, at energies below the deuteron breakup, nd scattering in the doublet channel exhibits both a virtual state and a zero in the amplitude. We construct a halo/cluster EFT that takes both features into account, and follow the behavior of observables as we decrease the deuteron binding energy. Reaching the unitary limit, we demonstrate the nature of this virtual state associated to an excited Efimov state, confirming previous studies using phenomenological models.

Summary

Primary author: HIGA, Renato (University of São Paulo)

Presenter: HIGA, Renato (University of São Paulo)

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