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Four-nucleon continuum: from near-threshold resonances to intermediate-energy collisions

Monday, 2 September 2019 14:55 (20 minutes)

Recent developments in four-nucleon scattering calculations will be presented. They are based on the Faddeev-Yakubovsky-type equations for transition operators that are solved in the momentum-space partial-wave representation. Their solution is complicated due to the presence of kernel singularities corresponding to open many-cluster channels. This difficulty becomes most evident if two-cluster channels are absent, as in $4n$ system, and at intermediate energies where breakup channels dominate. These cases will be discussed in detail.

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