

Abstract Submitted
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Few-body systems in the adiabatic hyperspherical representation¹ KEVIN DAILY, CHRIS H. GREENE, Purdue Univ
— We study few-body systems using the adiabatic hyperspherical representation. We use a correlated Gaussian basis at a fixed hyperradius with efficiently calculated matrix elements [1] to generate the adiabatic potentials and non-adiabatic couplings as a function of the hyperradius. We consider different dimensions with neutral or charged particles.

[1] K. M. Daily and Chris H. Greene, Phys. Rev. A **89**, 012503 (2014).

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