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Lattice Calculations of Hadronic Scattering

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While lattice QCD is able to compute single-hadron properties to few-percent accuracy, only very recently has it become possible to extract precise information about the interactions between hadrons. I will review the methodology for extracting phase shifts from lattice correlation functions in a finite volume, and I will discuss recent progress in computing a variety of hadron-hadron scattering amplitudes using lattice QCD, including recent efforts to learn about the simplest nuclear systems.