Contribution ID: **54** Type: **not specified**

Studying nuclear interactions with lattice QCD

Wednesday, 7 February 2024 10:25 (25 minutes)

Understanding the strong interactions between baryons is a central goal of nuclear physics. Beyond the clear value of this knowledge in its own right, such information is essential to optimize our experimental sensitivity to new physics. Lattice quantum chromodynamics (LQCD) offers the prospect of studying nuclear systems from first principles. In this talk, I will present results from recent NPLQCD collaboration spectroscopy studies of multi-baryon systems including two nucleon and two hyperon systems. I will explain how these spectroscopy results may be used to extract information about nuclear systems.

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