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Lattice Tetraquark Spectroscopy and Disentanglement of Excited States

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Understanding exotic QCD matter from first principles has seemed, for the past 50 years, like an intractable problem. The well-established field of Lattice QCD, invented by K. Wilson in the 70s, has proved to be a powerful tool to study this systems, by implementing QCD numerically, via an ab initio, non-perturbative approach.

In this talk, we will explain the basics of LQCD, see how to simulate tetraquark systems, and understand how this theoretical calculations can help guide future experiments, and shed light on our understanding of these strange objects.

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