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Hadron Spectroscopy at JLab

While the existence of hadrons such as baryons and mesons is well-established, it is clear that the vast majority of their mass originates not from the constituent quarks themselves, but emerges from the properties of the strong force of nature that binds them. Exploring hadron structure and spectroscopy offers a unique window into Quantum Chromodynamics (QCD, the theory governing the strong force) and provides a route to address fundamental questions such as the origin of hadron mass, the mechanism of quark confinement and the effective degrees of freedom within hadrons. Presented here is an overview of the JLab hadron spectroscopy programme, investigations spanning both structure and spectroscopy and some future possibilities.

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