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Phenomenological investigation of conventional and non-conventional hadrons

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Quantum Chromodynamics (QCD), the fundamental theory governing the strong interaction, remains a important area of study due to the ongoing challenges in fully understanding its internal dynamics, even after extensive research. Hadron spectroscopy, a specialized field within particle physics, focuses on exploring the spectrum of hadrons. This field seeks to uncover the intrinsic properties and interactions of hadrons by analyzing attributes such as their masses, spin, parities, and other quantum numbers. Due to the vast amount of data recently reported by various world-wide experimental collaborations, the spectroscopic study of hadronic states and their decay properties has been of keen interest of hadron physics. Here, the hadronic properties of baryons, mesons and exotic particles will be discussed

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