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Recent progress on heavy hadron spectroscopy in LHCb

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Spectroscopy of heavy hadrons offers a powerful tool for exploring the intricacies of quantum chromodynamics. In traditional hadron spectroscopy, experimental studies—particularly the discovery of new hadronic states—are essential for understanding the nature of exotic hadrons. The extensive flavor dataset collected by the LHCb experiment during the periods 2011-2012 and 2015-2018 presents a unique opportunity to investigate the internal structure of hadrons and deepen our understanding of strong interactions. This talk will highlight the latest advancements in hadron spectroscopy, leveraging insights gained from these comprehensive datasets.

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