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Recent studies of pentaquark states at LHCb

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Studies of pentaquark states can improve our understanding of the strong interaction at the low-energy region. In 2015, the first candidates for pentaquark states were observed at LHCb. Since then, significant experimental and theoretical efforts have focused on pentaquark research. However, the internal structure and dynamics of tetraquarks remain a topic of active debate, calling for more experimental input. The LHCb experiment, with its unique detector design and large dataset, is well-suited for pioneering pentaquark studies. In this talk, we present recent results on pentaquark states at LHCb.

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