

Pentaquarks+exotic baryonic states

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Collaboration

LHCb

Abstract content

In 2015 LHCb reported the discovery of two pentaquark resonances in the decay of lambda b baryons. Various interpretations into the nature of these pentaquarks predict that they are in fact part of a larger multiplet of exotic states. Searches for these states, as well as further exotic hadrons that do not conform to the established quark-anti-quark meson and three-quark baryon model are a main focus for heavy flavour experiments. LHCb is in a unique position to study a wide range of decay modes for multiple b-hadron species. The latest results of these studies from LHCb are presented.

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