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Amplitude analyses at LHCb

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The search for resonances, both exotic and otherwise, as intermediate states in beauty and charm hadron decays at LHCb has been extremely productive in recent times. We present recent results in the amplitude analysis of these decays. Among others, this includes studies of Lb -> D p pi decays, which allow to constrain the spin/parity of the Lc(2940)+ state for the first time, and evidence for a the new resonance Lc(2860) as well as determination of its quantum numbers.

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