

Spectroscopy of beauty hadrons and doubly-heavy baryons at LHCb

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We report on the first observation of excited hadronic states in the beauty sector, with emphasis on beauty baryons.

Similar techniques are used to search the LHCb data for states observed in other datasets, such as the tetraquark state $X(5568)$ whose evidence was reported by D0.

Furthermore, we discuss the searches for doubly heavy baryons, such as the doubly charmed X_{cc} and charmed-beauty X_{bc} states, with LHCb data.

Authors: TRAILL, Murdo Thomas (University of Glasgow (GB)); GERSABECK, Marco (University of Manchester (GB))

Presenter: TRAILL, Murdo Thomas (University of Glasgow (GB))

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