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Recent studies of tetraquark states at LHCb

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Since the discovery of the $\chi_{c1}(3872)$ (aka $X(3872)$) state, many states compatible with tetraquarks have been observed, and many theoretical models have been proposed to explain these observations. However, there is still no consensus on the nature of tetraquark states. Further experimental studies of tetraquark states will help to test the theoretical model.

The LHCb experiment, with its large heavy-flavour data samples and high-performance detector, offers unique opportunities to explore the nature of tetraquark states.

This presentation highlights recent progress in tetraquark research at LHCb.

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