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Updated LHCb measurements on pentaquark and tetraquark states

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After the unambiguous confirmation of the resonant behaviour of the $Z_c(4430)$ charmonium-like state and the observation of two pentaquark states, it is a main goal for the heavy flavour experiments to complete the picture with searches for the many partners the quark model predicts. We report on several studies of b-hadron decay modes potentially involving exotic intermediate states, including new results from studies of three-body final states involving two open-charm particles, the first results to be obtained in this class of decays at the LHC. Prospects for a more robust determination of the pentaquark final states are also discussed.

Experimental Collaboration

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