

# XYZ states at LHCb

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## Collaboration

LHCb

## Abstract content

The latest years have observed a resurrection of interest in searches for exotic states motivated by precision spectroscopy studies of beauty and charm hadrons providing the observation of several exotic states. The latest results on spectroscopy of conventional and exotic hadrons are reviewed, using the pp collisions data collected by the LHCb experiment. These are e.g. the discovery of the first charmonium pentaquark states in the  $J/\Psi p$  system or the confirmation of the resonant nature of the  $Z(4430)$ - mesonic state. LHCb has also made significant contributions to the determination of the quantum numbers of the  $X(3872)$  state and excluded the existence of the  $X(5568)$  tetraquark candidate. Interest in heavy hadron spectroscopy has increased dramatically with the new LHCb results.

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