Contribution ID: **48** Type: **not specified**

Heavy flavour spectroscopy and exotic states at LHCb

Wednesday 18 April 2018 17:10 (20 minutes)

The LHCb experiment is designed to study heavy hadrons produced in proton-proton collisions at the LHC. Charmed and charmonium hadrons produced in the pp-collision or in b-hadron decays are studied to identify new states, confirming or disproving those recently claimed, and establishing their quantum numbers. The spectroscopy of heavy baryons is also explored with observations of doubly charmed baryons and new excited states in the beauty sector.

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Session Classification: WG5: Physics with Heavy Flavours

Track Classification: WG5: Physics with Heavy Flavours