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Exotic hadron production in pp and pPb collisions at LHCb

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In the last decade, hadron spectroscopy has unveiled a wealth of states that do not have the properties expected of particles composed of 2 or 3 valence quarks. Foremost among these is the X(3872), which is thought to contain a ccbar pair plus two light quarks. In heavy ion collisions, these multiquark states are especially sensitive to a range of phenomena that can suppress or enhance their production. With a full range of precision vertexing, tracking, and particle ID capabilities covering forward rapidity, the LHCb experiment is especially well suited to measurements of both prompt and non-prompt exotic hadrons. This talk will present recent LHCb measurements of exotic hadrons, including the first measurement of the nuclear modification factor of the exotic hadron X(3872) in pPb collisions.

Category

Experiment

Collaboration

LHCb

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