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New LHCb results on quarkonia production in pp and pPb collisions

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Modifications of quarkonia production in hadronic collisions provide an important experimental observable that sheds light on the heavy quark interaction with the nuclear medium. In small collision systems, quarkonia can suffer from a combination of initial and final state effects such as shadowing and comover breakup, and possible effects from a deconfined medium. The excited $\psi(2S)$ state, with a relatively low binding energy, is especially sensitive to these effects. In this contribution, we will present new LHCb results on J/ψ and $\psi(2S)$ production in high-multiplicity pp and in pPb collisions, along with comparisons to the latest theoretical models.

Category

Experiment

Collaboration (if applicable)

LHCb

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