Contribution ID: **116** Type: **Oral presentation**

Charmonium production measurements in small systems at LHCb

Tuesday 24 September 2024 14:40 (20 minutes)

Charmonium production in hadronic collisions is an important experimental observable that sheds light on the heavy quark interaction with the nuclear medium. While the bound quarkonium states undergo dissociation and recombination in PbPb collisions, in pPb collisions they can experience a combination of initial and final state effects such as shadowing and comover breakup. A full description of charmonia production from small to intermediate system is hence crucial to disentangle these from medium effects. In this contribution, recent LHCb measurements of $\psi(2s)/J/\psi$ production in pp and in pPb as a function of multiplicity will be shown and discussed. Also, the first LHC measurement of χc production and nuclear modification will be included

Category

Experiment

Collaboration

LHCb

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Session Classification: Parallel 19: heavy quarkonia production

Track Classification: 3. Heavy quarks and quarkonia