

ID de Contribution: 131

Type: Talk

Recent conventional and exotic charmonia results from LHCb

mardi 4 juin 2024 15:40 (20 minutes)

Quarkonia 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 suffer from a combination of initial and final state effects such as shadowing and comover breakup. With high statistics from pp and pPb datasets, and excellent vertexing capabilities allowing separation of the prompt and b -decay components, LHCb performs precision measurements of J/ψ , $\psi(2S)$, and, for the first time at the LHC, χ_c production and modification. We will discuss these results, along with the first measurement of the nuclear modification factor of the exotic hadron $X(3872)$, in context with recent model calculations.

Auteur principal: KANG, Youen

Co-auteur: VOS, Keri (Maastricht University)

Orateur: KANG, Youen

Classification de Session: Track2-HF&Q

Classification de thématique: Heavy-Flavours & Quarkonia