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Study of associated quarkonium production in pp collisions at LHCb

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The study of quarkonium production in proton-proton collisions involves both the perturbative and non-perturbative regimes of QCD, providing an excellent probe for quantum chromodynamics. Its mechanism is widely studied but not yet fully understood. The associated production of quarkonia is not only useful to probe the quarkonium production puzzle, but also helpful to reveal the double parton scatterings process, which is of great interest to the community and still awaits further research both theoretically and experimentally. The associated quarkonium production is also considered an ideal way to probe the transverse momentum dependent parton distribution functions of gluons inside the proton, leading towards a more comprehensive knowledge of the proton structure. In this talk, the latest results on associated quarkonium production from LHCb will be presented.

Collaboration / Activity

LHCb

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