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Quarkonia production with the ATLAS experiment

Monday 4 May 2015 17:30 (15 minutes)

ATLAS has a wide program to study the production cross section and decay properties of the charmonium and bottomonium states. This presentation will cover ATLAS results in the domain of charmonium production, including J/ψ , $\psi(2s)$ and χ_c states, as well as exotic state $X(3872)$ and search for its bottomonium counterpart X_b in several possible decay channels. We also review the studies of $di-J/\psi$ and associated vector boson + J/ψ production. These rare production modes provide novel insight into the mechanisms of charmonium production and the impact of proton structure on these observables.

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