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Heavy flavour production at ATLAS and CMS

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Studies of heavy flavour production are very important to improve our understanding of QCD and hadron formation, given that the heavy quark masses allow the application of theoretical tools less sensitive to non-perturbative effects.

This talk presents ATLAS and CMS heavy flavour results obtained in pp collisions, at 7 and 8 TeV, placing emphasis on the most recent measurements. In particular, we will present a series of systematic measurements in quarkonium production physics, including double-differential cross sections and polarizations, for five S-wave quarkonia: J/ψ , $\psi(2S)$, $Y(1S)$, $Y(2S)$, and $Y(3S)$. Some of these measurements extend well above $p_T \sim 50$ GeV, probing regions of very high $p_T/mass$, where the theory calculations are the most reliable. Recent results on P-wave quarkonia will also be shown, as well as measurements in the field of B-hadron and exotic quarkonium spectroscopy.

Summary

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