



Contribution ID: 152

Type: **Experiment**

Heavy Flavors production and spectroscopy in ATLAS

ATLAS has a wide programme of study of production cross section and of properties of particles with beauty, as well as charmonium and of bottomonium states.

Recent results on the production the $Y(nS)$, $n=1-3$ and of charged B mesons are discussed. In both cases, the differential

production cross section is measured over a range of transverse momentum up to about 100 GeV, much wider than in previous measurements.

The production of Y is compared to prediction based on color singlet and evaporation models.

The production of $B^{+/-}$ production cross section is compared to POWHEG+PYTHIA, MC@NLO+HERWIG and FONLL showing different levels of agreement over the range of transverse momenta accessed by the experiment.

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