

Studying $b\bar{b}$ production and small angle correlations in the $J/\psi + \mu$ final state

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We present a new measurement of $B\bar{B}$ hadron production at the LHC using the inclusive decay modes $B(\bar{B}) \rightarrow J/\psi + X \rightarrow \mu\mu + X$ and $B(\bar{B}) \rightarrow$

$\mu + X$. Using these three muon final state differential cross sections are presented, giving new constraints on B hadron production kinematics in particular at small separation angles between the $b\bar{b}$ pair. Further corrections are also determined to allow theory comparisons directly at the B hadron level.

Primary author: Prof. GREENWOOD, Dick (ATLAS)

Presenter: Prof. GREENWOOD, Dick (ATLAS)

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