

# Supplementary Material for LHCb-PAPER-2016-064

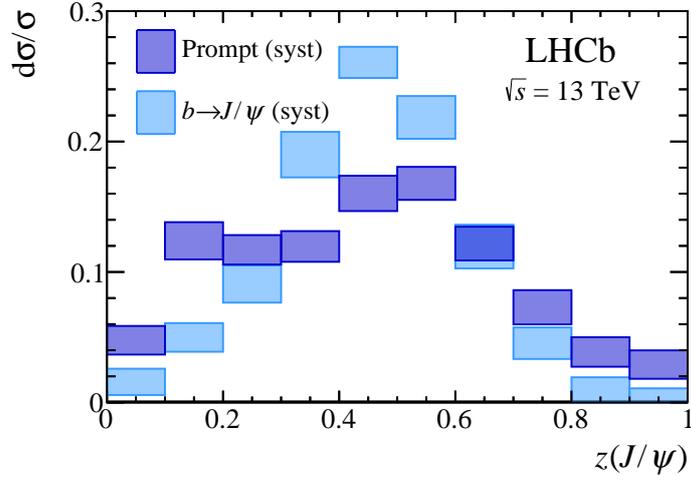


Figure 1: Measured  $z(J/\psi)$  distributions for  $J/\psi$  mesons produced promptly and in  $b$ -hadron decays. The statistical uncertainties are negligible.

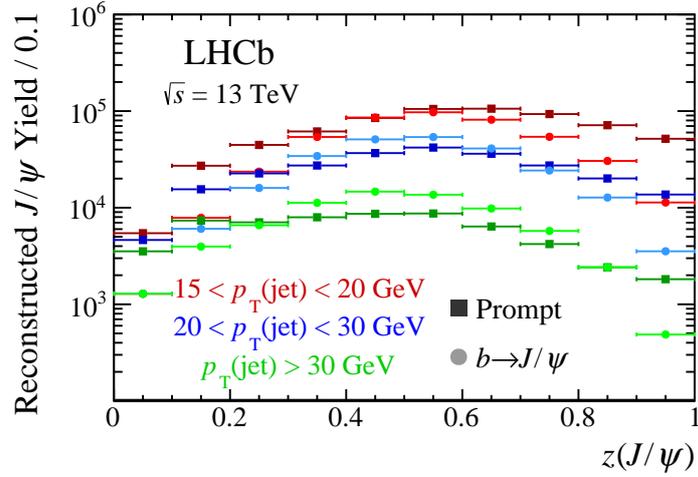


Figure 2: Reconstructed  $J/\psi$  yields for (darker colors, squares) prompt and (lighter colors, circles)  $b$ -hadron production in bins of reconstructed  $[z(J/\psi), p_T(\text{jet})]$ , with no efficiency corrections or unfolding of the detector response applied.