The figure shows the differential cross section $d\sigma/dp_T$ in units of $\text{nb}/(\text{GeV}/c)$ plotted against $p_T(J/\psi)$ in units of $\text{GeV}/c$. The data is compared with the NRQCD prediction for $2.0 < y < 4.5$. The LHCb prompt $J/\psi$ signal is also shown for the same rapidity range. The cross section decreases rapidly with increasing $p_T$. The data points are represented by black circles with error bars, while the NRQCD prediction is indicated by a red hatched area.