

$0 < p_T < 8 \text{ GeV}/c, 2 < y < 4.5$

LHCb  
 $\sqrt{s} = 5 \text{ TeV}$

LHCb  $D^0$



LHCb  $D^+$



LHCb average



FONLL



POWHEG+NNPDF3.0L



0 500 1000 1500 2000

$\sigma(pp \rightarrow c\bar{c}X) [\mu\text{b}]$