

Supplementary material for LHCb-PAPER-2016-042

Supplementary material for CDS — Differential cross-sections

Figures 1 and 2 show the D^0 , D^+ , D_s^+ , and D^{*+} cross-section measurements comparing the p_T dependence of the different rapidity ranges.

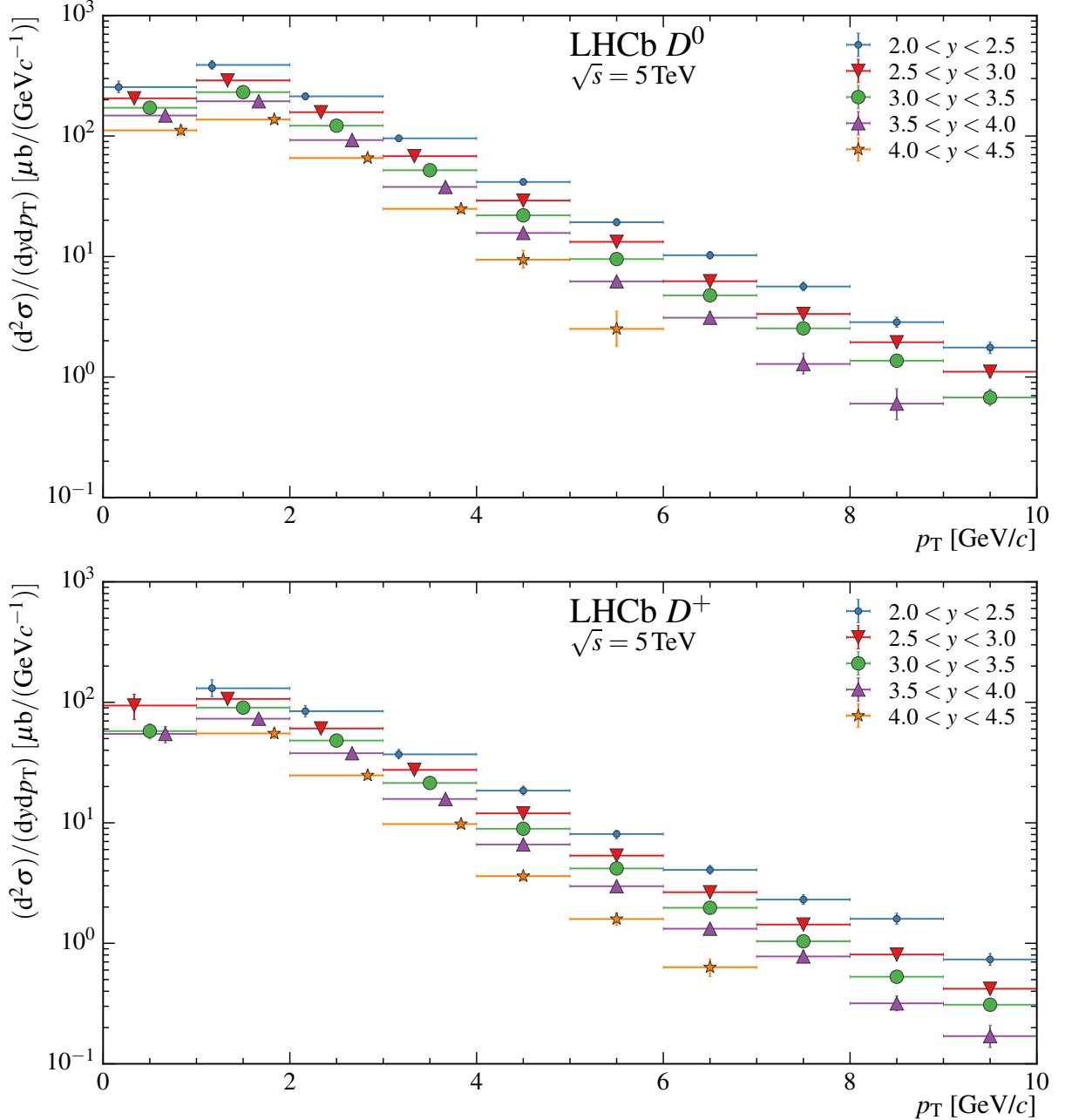


Figure 1: The bin-averaged differential prompt (top) D^0 , and (bottom) D^+ cross-sections at $\sqrt{s} = 5 \text{ TeV}$ as described in Sec 4. The markers for p_T values below $p_T = 4 \text{ GeV}/c$ have been displaced horizontally within each bin for better visibility.

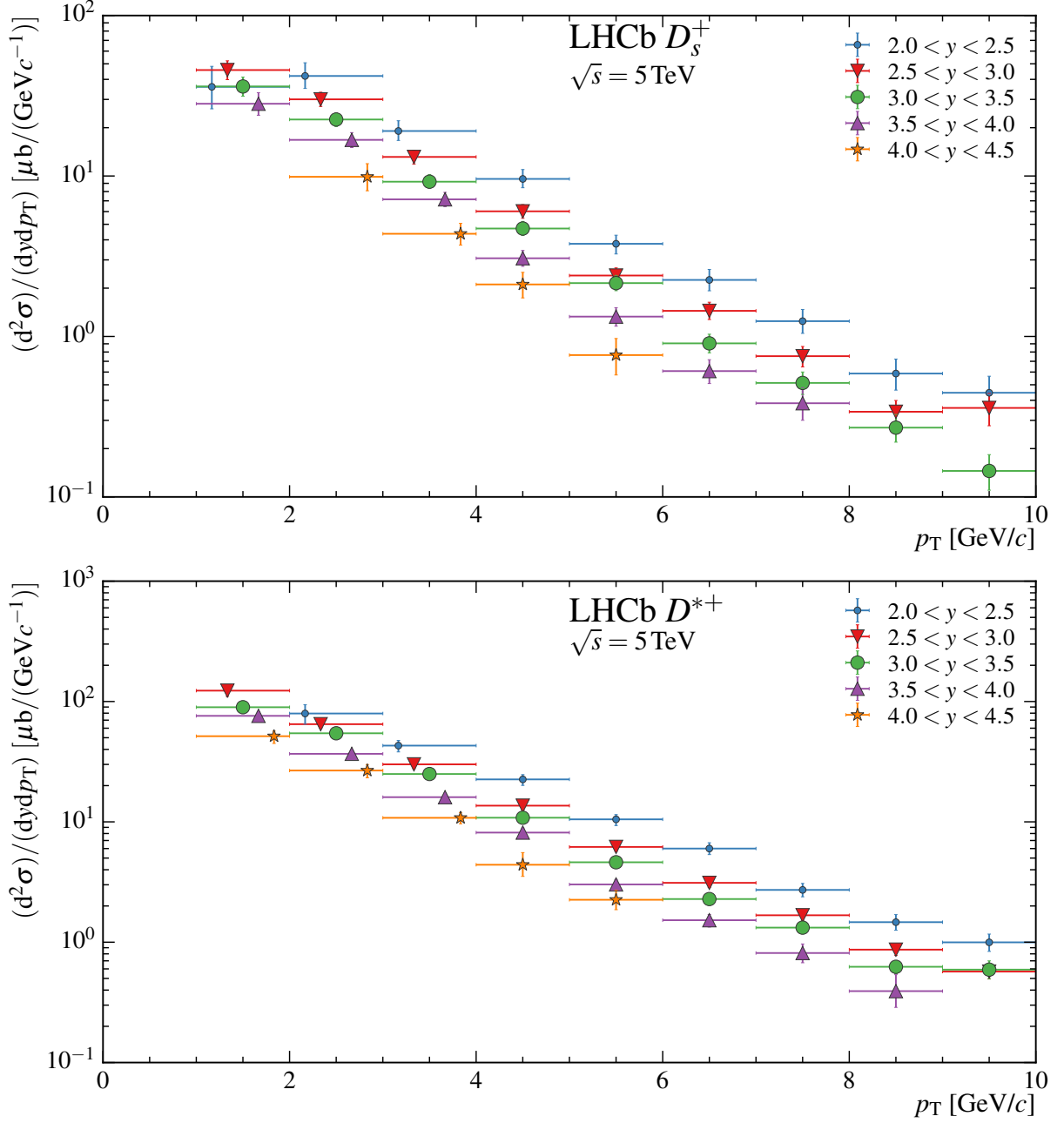


Figure 2: The bin-averaged differential prompt (top) D_s^+ , and (bottom) D^{*+} cross-sections at $\sqrt{s} = 5 \text{ TeV}$ as described in Sec 4. The markers for p_T values below $p_T = 4 \text{ GeV}/c$ have been displaced horizontally within each bin for better visibility.

Supplementary material for CDS — Integrated ratios

Figure 3 shows the integrated cross-section ratios between $\sqrt{s} = 13$ TeV and 5 TeV.

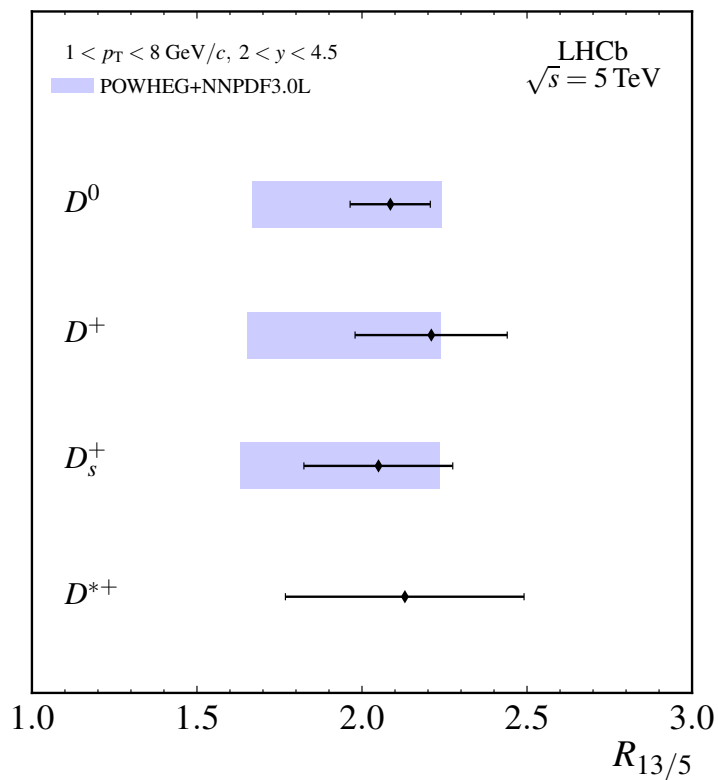


Figure 3: Integrated cross-section ratios between $\sqrt{s} = 13$ TeV and 5 TeV for D^0 , D^+ , D_s^+ , and D^{*+} compared to POWHEG+NNPDF3.0L predictions.