CMS Projection pPb $\sqrt{s_{NN}}$ = 8.16 TeV Prompt D⁰ Prompt J/ψ $-1.46 < y_{cm} < 0.54$ $-2.86 < y_{cm} < -1.86 \text{ or } 0.94 < y_{cm} < 1.94$ $L_{int} = 500 \text{ nb}^{-1}$ 0.1 $L_{int} = 500 \text{ nb}^{-1}$ $L_{int} = 2 \text{ pb}^{-1}$ $L_{int} = 2 \text{ pb}^{-1}$ V_2^{sub}/n_q 0 KE_T/n_q (GeV)