

1 Supplemental Material Allowed by Journal to Accompany Online Version of Paper

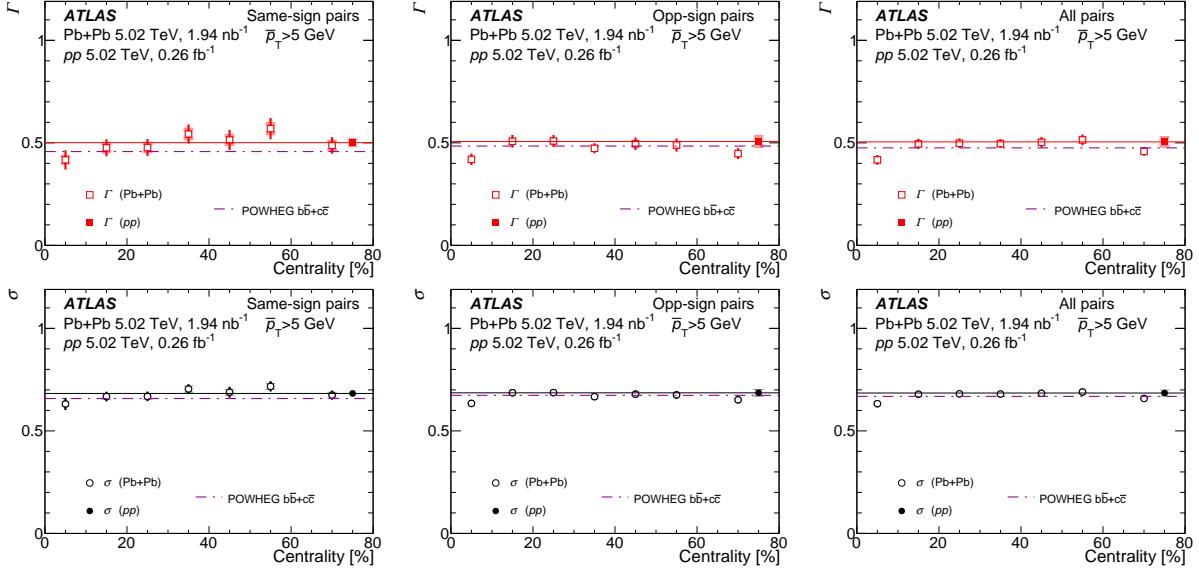


Figure 1: Comparison of the Γ (top) and σ (bottom) obtained from a Powheg+Pythia8 MC sample to those obtained in the data. The horizontal continuous lines indicate the nominal pp values plotted across the full centrality range. The Powheg+Pythia8 calculation includes two samples: a $b\bar{b} \rightarrow \mu\mu$ and a $c\bar{c} \rightarrow \mu\mu$ sample. The same fiducial selections are applied on the single-muons and on the muon-pair as those in the data analysis; namely that the single-muon $|\eta| < 2.4$ and $p_T > 4$ GeV, and that for the pair, $\bar{p}_T > 5$ GeV and $|\Delta\eta| > 0.8$. The $b\bar{b}$ and $c\bar{c}$ samples are combined appropriately weighted by the cross-sections. The samples are generated using the nCTEQ15+SIH [1] nuclear PDFs corresponding to the Pb-nucleus, and thus include the correct admixture of pp , pn and nn collisions for comparison to the Pb+Pb measurements. The left, center and right panels correspond to same-sign, opposite-sign and all-pairs respectively.

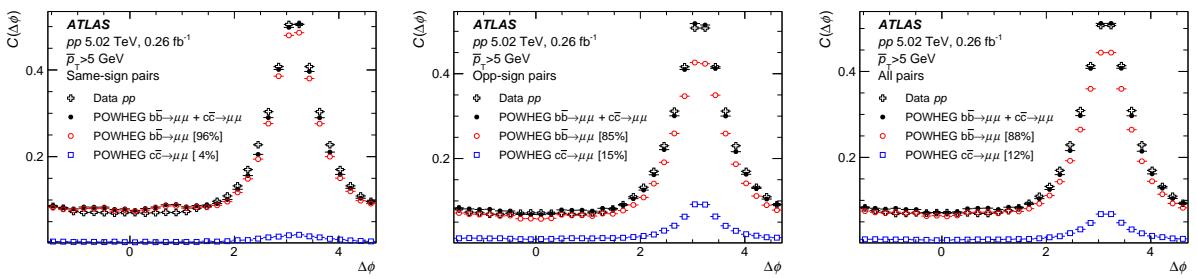


Figure 2: Correlation functions, $C(\Delta\phi)$, in the Powheg+Pythia8 MC sample used in Figure 1. The left, center and right panels correspond to same-sign, opposite-sign and all-pairs respectively. The relative contribution of $b\bar{b}$ and $c\bar{c}$ pairs are also shown. The measured $C(\Delta\phi)$ in the pp data are also shown for comparison.

References

- [1] P. Duwentäster et al., *Impact of inclusive hadron production data on nuclear gluon PDFs*, Phys. Rev. D **104** (9 2021) 094005,
URL: <https://link.aps.org/doi/10.1103/PhysRevD.104.094005>.