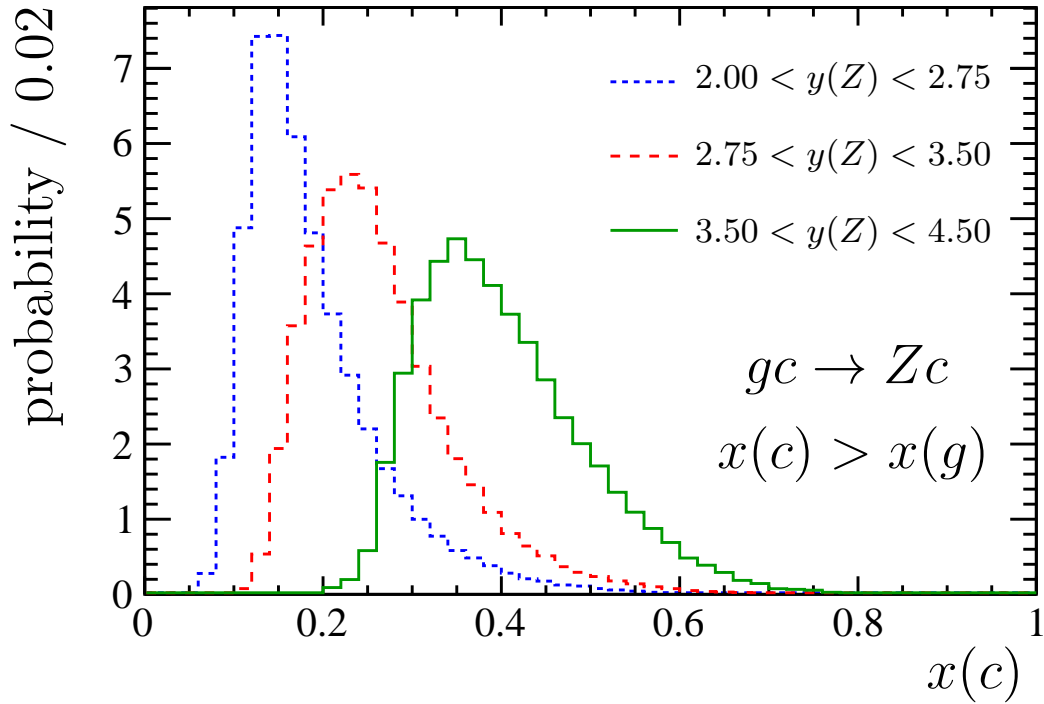# Supplementary Material for LHCb-PAPER-2021-029

Study of Z bosons produced in association with charm in the forward region

Momentum fraction distributions of the c quark for the process $gc \to Zc$ for the predominant case where the c quark is the leading (higher-x) parton. Distributions are shown separately for the three $y(Z)$ intervals used in the analysis, with each distribution normalized to have an integral of unity. These distributions are obtained using the theory calculations described in the detail in the Supplemental Material of the Letter.