

# Quark Matter 2019 - the XXVIIIth International Conference on Ultra-relativistic Nucleus-Nucleus Collisions



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## Fixed-target collisions at LHCb

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LHCb has the unique capability to study collisions of the LHC beams on fixed targets. Internal gas targets of helium, neon and argon have been used so far to collect samples of proton- and Pb-gas collisions corresponding to integrated luminosities up to  $0.1 \text{ pb}^{-1}$ . Results on open and hidden charm productions will be presented, which can provide crucial constraints on cold nuclear matter effects and nPDF at large  $x$ .

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