

# Hard Probes 2018: International Conference on Hard & Electromagnetic Probes of High-Energy Nuclear Collisions

Contribution ID: 212

Type: **3a) Heavy-flavours and quarkonia (TALK)**

## Charm production in fixed-target mode at LHCb

*Thursday 4 October 2018 09:40 (20 minutes)*

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. First final results and prospects on open and hidden charm productions will be presented, which can provide crucial constraints on cold nuclear matter effects and nPDF at large  $x$ . These measurements, together with production of antiprotons and other light hadrons, are of great interest to cosmic ray physics as well.

### Summary

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**Session Classification:** Parallel 3