

## Heavy-ion and fixed-target physics at LHCb

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The LHCb collaboration pursues a full physics program studying dense QCD with both beam-beam and fixed-target collisions. The forward design of the LHCb spectrometer allows probing the low- $x$  region of the nucleus, while high vertexing precision and full particle ID guarantee the reconstruction of a wide range of hadrons down to very low transverse momentum. In this contribution we present the recent LHCb results including open charm and charmonia production in fixed target collisions and Bose-Einstein correlation effects in proton-lead collisions.

### 1 Introduction

The LHCb experiment<sup>1</sup> has a unique heavy-ion and fixed-target physics program. An extended heavy-ion collision programme in Runs 3 and 4 of the LHC is motivated by the lack of theoretically clean and precise measurements at low  $Q^2$  for Bjorken- $x$  down to  $10^{-5}$ , which provide information about the initial stages of collisions involving heavy ions. In particular, nuclear parton distribution functions (nPDFs) are not well known in the low- $x$  regime. Measurements at forward rapidity at the highest available collision energies are uniquely capable of exploring the low Bjorken- $x$  region. The LHCb experiment offers the unique opportunity to study heavy-ion interactions in the forward region ( $2 < \eta < 5$ ), in a kinematic domain complementary to the other 3 large experiments at the LHC. The detector has excellent capabilities for reconstructing quarkonia and open charm states down to zero  $p_T$ . It can separate the prompt and displaced charm components. In pPb collisions, both forward and backward rapidities are covered thanks to the possibility of beam reversal. Since 2015, the LHCb forward spectrometer has the unique capability to function as a fixed-target experiment (SMOG, System for Measuring Overlap with Gas) by injecting gas into the LHC beam pipe while proton or ion beams are circulating. LHCb has collected a wide variety of heavy-ion and fixed-target data in recent years. In the standard collision mode, lead-lead (PbPb) and proton-lead (pPb) data have been acquired at  $\sqrt{s_{NN}} = 5.02$ -8.16 TeV with centrality up to  $\sim 60\%$  for PbPb collisions, limited by the hardware saturation due to the high track density in the forward region. In the fixed-target configuration, several samples of beam-gas collisions were acquired from 2015 to 2018 at  $\sqrt{s_{NN}} = 68.5$ -110 GeV, acting as the highest-energy fixed-target experiment ever.

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