

## 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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*Selected Bibliography of Publications of LASL Research* Los Alamos Scientific Laboratory, 1975      *Adopting the International System of Units for Radiation Measurements in the United States* National Academies of Sciences, Engineering, and Medicine, Division on Earth and Life Studies, Nuclear and Radiation Studies Board, 2017-02-27 Most countries in the world use the SI System International also known as the metric system units for radiation measurements in commercial and technical activities The United States in contrast uses a mix of SI and conventional units for radiation measurements despite 30 year old national and international recommendations to exclusively use SI Radiation professionals in the United States are faced with the need to understand both systems and make conversions between the two In September 2016 the National Academies of Sciences Engineering and Medicine organized a workshop to explore potential communication improvements associated with adopting the international system of units SI units for radiation measurements in the United States Participants discussed potential improvements in the effectiveness of responding to national and international radiation emergencies international experiences in adopting the exclusive use of SI units of radiation measurements and steps needed to adopt the exclusive use of SI units in the US in terms of timing implementation and ways to overcome or manage technical economic and policy barriers This publication summarizes the presentations and discussions from the workshop      *Isotopes for Medicine and the Life Sciences* Institute of Medicine, Committee on Biomedical Isotopes, 1995-01-27 Radioactive isotopes and enriched stable isotopes are used widely in medicine agriculture industry and science where their application allows us to perform many tasks more accurately more simply less expensively and more quickly than would otherwise be possible Indeed in many cases for example biological tracers there is no alternative In a stellar example of technology transfer that began before the term was popular the Department of Energy DOE and its predecessors has supported the development and application of isotopes and their transfer to the private sector The DOE is now at an important crossroads Isotope production has suffered as support for DOE's laboratories has declined In response to a DOE request this book is an intensive examination of isotope production and availability including the education and training of those who will be needed to sustain the flow of radioactive and stable materials from their sources to the laboratories and medical care facilities in which they are used Chapters include an examination of enriched stable isotopes reactor and accelerator produced radionuclides partnerships among industries national laboratories and universities and national isotope policy      *American Book*

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