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QCD at high temperatures and finite densities: heavy-ion collisions

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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 talk we present the recent LHCb results including quarkonia production in peripheral and ultra-peripheral heavy-ion collisions, and antiproton and charm production in fixed-target collisions.

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