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# NEW RESULTS ON HEAVY FLAVOUR PRODUCTION IN PROTON-NUCLEUS COLLISIONS WITH THE LHCB EXPERIMENT

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Open and hidden charm production in nucleus-nucleus collisions is considered as a key signature of Quark Gluon Plasma formation, but is also affected by cold nuclear matter effects, that can be studied by observing heavy flavour production in systems of different size and at different energy scale.

We present the latest LHCb production measurements of exclusive charmed and strange hadrons in p-p and p-Pb collisions at forward and backward rapidity. Cold nuclear matter effects are tested with accurate measurements of nuclear modification factors, forward-backward production asymmetry and ratios of open to hidden charm states and meson to baryon states. The results include the first measurement of charmed baryon production in pA collisions, and quarkonia production in the p-Pb collisions at 8 TeV centre-of-mass energies collected in November 2016.

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