

## Heavy ion physics at LHCb

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The LHCb collaboration studied the production of  $J/\psi$  and Upsilon mesons in proton-lead collisions at a proton nucleon centre-of-mass energy  $\sqrt{s_{NN}} = 5$  TeV. The measurements have been used to determine the nuclear modification factor and to compare the results with theoretical predictions. A measurement of Z boson production in proton-lead collisions is presented as well. The analyses are based on a data sample corresponding to an integrated luminosity of about  $1 \text{ nb}^{-1}$ .

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