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## Charmonium production in Pb-Pb ultra-peripheral collisions (UPC) and Z production in pPb collisions at LHCb

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Photo-produced vector mesons in ultra-peripheral Pb-Pb collisions at forward rapidity are sensitive to the small- $x$  parton distribution functions (nPDFs) in the target nucleus. In pPb collisions, measurements of the Z production in forward (pPb) and backward (PbP) configuration are also sensitive to the nPDFs in another kinematic domain, both probes allowing to study in a complementary fashion the structure of the nucleus.

In this talk, we present the latest results obtained on the charmonium production in PbPb ultra-peripheral collisions and the Z production in pPb and PbP collisions by LHCb.

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