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Open Heavy-Flavour and J/ψ production in peripheral PbPb collisions at LHCb

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In 2018, LHCb recorded ~ 210 microbarn $^{-1}$ integrated luminosity of PbPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. In this talk, we present the first LHCb measurements of open heavy-flavour and J/ψ productions from this new sample. The momentum resolution of the detector allows to probe the boundary of peripheral and ultra-peripheral collisions by comparing hadro-produced and photo-produced J/ψ , but also to measure mesonic and baryonic open-charm productions in peripheral collisions, down to $p_T=0$, where the performance of the detector is optimal.

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