

# Quark Matter 2019 - the XXVIIIth International Conference on Ultra-relativistic Nucleus-Nucleus Collisions



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## Open Heavy-Flavour and $J/\psi$ production in peripheral PbPb collisions at LHCb

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In 2018, LHCb recorded  $\sim 210$  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  $J/\psi$  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  $J/\psi$ , 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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