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Heavy ion quarkonia and heavy flavour results from ALICE and LHCb

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A rich set of quarkonia and heavy flavour result is observed by LHCb ALICE in pPb and pPbPb collisions collected at 5 and 8.16 TeV nucleon-nucleon centre-of-mass energies. In case of PbPb collisions heavy hadrons constitute unique probes for the hot and dense QCD medium produced in heavy-ion collisions: the Quark-Gluon Plasma. This talk presents production measurements of beauty hadrons and open charm states including baryons, through cleanly reconstructed exclusive decays. Results on nuclear effects, quantified by the nuclear modification factors, forward-to-backward production ratios and baryon-to-meson ratios, will be discussed.

The ALICE detector is well suited to measure the production of leptons from heavy- flavour hadrons decays at mid- and forward rapidities while the LHCb detector has a unique particle identification system and excellent momentum and vertex reconstruction in the forward region which makes the results from the two detectors complementary.

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