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Prompt Λ_c^+/D^0 ratio in peripheral PbPb collisions at 5.02 TeV by LHCb

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Coalescence hadronization in QGP would enhance Λ_c^+/D^0 at intermediate p_T and are supposed to occur in PbPb collisions.

The charmed baryon to meson ratio, Λ_c^+/D^0 ratio is sensitive to hadronization, can provide important information on the charm hadronization process and formation of QGP.

Prompt Λ_c^+/D^0 ratio are measured in peripheral PbPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV by LHCb, and are measured up to $p_T = 8$ GeV/c and in the rapidity region of 2.0 to 4.5.

This poster presents the Λ_c^+/D^0 ratio together with comparisons to ALICE results and calculations using pythia plus color recombination and other models.

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