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Charmonium production in p+Pb and Pb+Pb collisions at LHC energies

Charmonium production is among the promising signatures for quark-gluon plasma formation in relativistic heavy-ion collisions. Here we investigate hot-medium effects on the suppression of the J/Ψ yields in Pb+Pb and p+Pb at $\sqrt{s_{NN}} = 5.02$ TeV in a model that encompasses screening of the real part of the potential, damping of the $c\bar{c}$ binding through the imaginary part, and gluon-induced dissociation. Recombination plays an essential role for Pb+Pb, but is less important for p+Pb. We investigate the relative importance of cold nuclear matter and hot medium effects in p+Pb. Model results for both systems are compared to recent centrality, rapidity and transverse momentum dependent data from ALICE and CMS.

Preferred Track

Quarkonia

Collaboration

Other

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