

D^\pm Meson Production in Au+Au Collisions at $\sqrt{s_{NN}} = 200$ GeV at STAR

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Charm quarks, which are created during first moments of ultrarelativistic heavy-ion collisions, serve as a probe inside the Quark-Gluon Plasma. Measurements of the production of open-charmed mesons, such as D^\pm , can provide us with an insight to the interaction of charmed quarks inside the strongly interacting medium. The results from STAR measurements, which have been enabled by the installation of the Heavy Flavor Tracker, indicate significant energy losses of the charm quarks inside the QGP. The significance of the D^\pm signal can be improved by the application of machine-learning techniques, especially in the low- p_T region.

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