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Low p_T non-photonic electron production in AuAu collisions at $\sqrt{s_{\rm NN}} = 200$ GeV

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Particles containing heavy quarks are very useful tool to investigate the properties of hot and dense matter produced in early stage of the relativistic heavy ion collision in terms of the mechanisms of their interaction with nuclear matter. This can be studied by non-photonic electrons (NPE) coming from semi-leptonic decays of heavy flavor hadrons. In year 2010, STAR has collected a large sample of minimum bias Au+Au events at $\sqrt{s_{\rm NN}} = 200$ GeV with newly implemented full barrel Time-Of-Flight detector. This enables us to analyze NPE production in the low p_T region ($0.2 < p_T < 2.0$ GeV/c) with high statistics.
In this presentation we report status of the low p_T NPE analysis in Au+Au collisions at $\sqrt{s_{\rm NN}} = 200$ GeV at STAR.

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