

Study of low p_T non-photonic electrons production in 200 GeV

Thursday, 15 November 2012 17:05 (25 minutes)

The properties of the hot and dense nuclear matter produced at RHIC can be investigated in multiple ways by production of heavy quarks. Heavy flavor are produced in early stage of the collision and the mechanisms of their interaction with nuclear matter are not yet well understood. This can be studied by non-photonic (single) electrons coming from semi-leptonic decays of heavy flavor hadrons. In year 2010, STAR has collected a large sample of Au+Au events from minimum bias and central triggers with the full barrel Time-Of-Flight detector installed. This allows high statistics analysis of NPE production in the low p_T region.

In this talk we report analysis status on low p_T non-photonic electron from heavy flavor decays in 200 GeV Au+Au collisions from STAR.

Keywords

non-photonic electron, heavy flavor, STAR

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Session Classification: Parallel 3C (Chair Chang Ho Hyun)