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Azimuthal anisotropy of $b \rightarrow e$ and $c \rightarrow e$ in 200 GeV Au+Au collisions at RHIC-PHENIX

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Heavy quark yields is a powerful tool to study the quark gluon plasma (QGP) created in high energy heavy ion collisions.

PHENIX separated electrons from the charm and bottom decays by measuring the distance of the closest approach with the silicon vertex detector, and found the suppression of bottom quarks is smaller than that of charm quarks at low p_T . Heavy quark measurements also show a strong coupling with the QGP medium. It is important to measure the the flow of bottoms and charms separately.

In this poster, we present the analysis method and current status of $b \rightarrow e$ and $c \rightarrow e$ flow measurement at mid-rapidity in Au+Au 200GeV collisions with the PHENIX detector

Content type

Experiment

Collaboration

PHENIX

Centralised submission by Collaboration

Presenter name already specified

Primary authors: Dr HACHIYA, Takashi (RIKEN); FOR THE PHENIX COLLABORATION

Presenter: Dr HACHIYA, Takashi (RIKEN)

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