



## Nuclear Experiment

# STAR Measurements of Bottom to Charm Ratio and Heavy Quark Interaction with the QCD Medium through Non-Photonic Electron-Hadron Correlations

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We present STAR measurements of relative charm and bottom contributions to NPE from  $p+p$  collisions at  $\sqrt{s} = 200$  and 500 GeV energies. We report the total bottom quark production cross section from  $p+p$  collisions at  $\sqrt{s} = 200$  GeV extracted from NPE spectrum and B to D ratios. We also present the NPE-hadron azimuthal correlations from  $Au+Au$  collisions at  $\sqrt{s_{NN}} = 200$  GeV from the 2010 RHIC run where we have collected high statistics data set with low photonic conversion background.

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Subjects: **Nuclear Experiment (nucl-ex)**; High Energy Physics - Experiment (hep-ex)

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