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Measurement of charm and bottom contributions to electrons from heavy quark decay at RHIC-PHENIX experiment

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Heavy quark (charm and bottom) is a good probe to study the interaction between partons and quark gluon plasma (QGP). Heavy quarks are created mainly by initial hard scatterings and interaction between heavy quarks and QGP during full space-time evolution is clearly reflected in the final states.
A silicon vertex tracker (VTX) was installed at the PHENIX detector in 2011. The VTX enables us to measure charm and bottom contributions individually to electrons from heavy quark decay, and therefore to access the information of charm and bottom behavior inside QGP, which leads to greater understanding of the interaction.
In the presentation, the results of the electron measurement from charm and bottom decays for both p+p and Au+Au collisions will be presented.

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