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## Measurement of charm and bottom yields in Au+Au collisions at PHENIX

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Heavy quarks (charms and bottoms) are interesting probes with which to study the properties of quark gluon plasma (QGP). Heavy quarks are created by initial hard scatterings, and thus are good probe to investigate the full time evolution of heavy ion collisions. Due to their heavy mass, the energy loss within the QGP is expected to be different for heavy quarks than for light quarks. Therefore, the measurement of heavy quark yields from heavy ion collisions leads to greater understanding of parton behavior inside QGP.

We installed the silicon vertex tracker (VTX) in the PHENIX detector in order to individually measure charm and bottom contributions to heavy flavor single electrons and have collected Au+Au in 2011 and p+p collision data in 2012. In this poster, we present the status of charm and bottom yield measurements from the Au+Au collision data.

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