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## **PHENIX measurement of single electrons from charm and bottom decays at midrapidity in Au+Au collisions**

*Monday, 28 September 2015 14:50 (20 minutes)*

PHENIX has measured single electrons from charm and bottom decays at midrapidity in Au+Au collisions at  $\sqrt{s_{NN}}=200$  GeV. Previous heavy-flavor electron measurements have indicated substantial modification of the momentum distribution of the parent heavy-flavor hadrons. Using the PHENIX barrel silicon-vertex tracker (VTX) to measure displaced vertices precisely, the relative contributions from charm and bottom hadrons to these electrons have been measured as a function of transverse momentum in Au+Au collisions at  $\sqrt{s_{NN}}=200$  GeV. The heavier bottom quarks significantly extend our probes of the quark-gluon plasma, and the results are compared with theoretical calculations.

### **On behalf of collaboration:**

PHENIX

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**Session Classification:** Open Heavy Flavors and Strangeness II

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