## Hard Probes 2018: International Conference on Hard & Electromagnetic Probes of High-Energy Nuclear Collisions

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Type: 3a) Heavy-flavours and quarkonia (TALK)

## PHENIX results on charm and bottom quark yields in p+p and Au+Au Collisions at $\sqrt{s_{\mathrm{NN}}}$ =200 GeV.

Tuesday 2 October 2018 09:00 (20 minutes)

The PHENIX Experiment measures electrons from heavy flavor decays at mid-rapidity |y|<0.35 in a range of 1<pT<7GeV/c. Separated charm and bottom yields are obtained by unfolding distance of the closest approach distributions. Charm and bottom quark yields are measured in p+p and Au+Au collisions obtained from the high luminosity RHIC runs taken in 2015 and 2014 respectively. The results in p+p collisions pose a tight constraint to the pQCD estimate of heavy flavor production. The nuclear modification of charm and bottom yields in Au+Au collisions can reveal how the energy that hadrons lose in the QGP medium depends on the quark mass, especially at low pT. This presentation will report on the status of these measurements.

## Summary

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Session Classification: Parallel 3