

Quark Matter 2019 - the XXVIIIth International Conference on Ultra-relativistic Nucleus-Nucleus Collisions



Contribution ID: 619

Type: **Poster Presentation**

Bottom and Charm production in $p+p$ collisions at $\sqrt{s}=200$ GeV measured by PHENIX

Monday, 4 November 2019 17:40 (20 minutes)

The study of the charm and bottom interacting with the QGP strongly relies on the precise measurement of their yields in $p+p$ collisions, since the theoretical calculations of the yields have large uncertainties. The PHENIX collaboration has measured the semi-leptonic decay yields of charm and bottom hadrons and the non-prompt J/ψ yield from B meson decays in 200 GeV $p+p$ collisions, using the distance-of-closest approach measured in the vertex detectors installed at mid ($|y| < 0.35$) and forward ($1.2 < |y| < 2.2$) rapidities. This presentation will show the final results on the semi-leptonic decays of charm and bottom hadrons at mid-rapidity and the status of the analysis of non-prompt J/ψ and other measurements at forward rapidity.

Author: VELKOVSKA, Julia (Vanderbilt University (US))

Presenter: VELKOVSKA, Julia (Vanderbilt University (US))

Session Classification: Poster Session

Track Classification: Heavy flavor and quarkonium