Abstract Submitted
for the DNP20 Meeting of
The American Physical Society

PHENIX Measurement of J/ψ Elliptic Flow in 200 GeV Au+Au Collisions at Forward Rapidity LUIS BICHON[1], Vanderbilt Univ — The Quark Gluon Plasma (QGP) produced in relativistic heavy ion collisions exhibits a nearly perfect fluid behavior, which manifests itself in strong azimuthal correlations between the produced particles. This behavior is seen for both light and heavy-flavor particles, but the detailed interactions of the heavy quarks in the medium are still under investigation. Quarkonia may serve as a special probe, as they are subject to several competing effects that involve interactions of both the bound state and the individual heavy quarks with the QGP. PHENIX has unique coverage at forward rapidity and a large data set of Au+Au collisions at 200 GeV collected in 2014 that will allow for a statistically improved measurement of J/ψ elliptic flow. The status of the J/ψ flow analysis will be presented.

[1]for the PHENIX Collaboration

Luis Bichon
Vanderbilt Univ

Date submitted: 30 Jun 2020 Electronic form version 1.4