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Study of cold-nuclear-matter effects on B-meson production at forward and backward rapidity with the PHENIX FVTX SANGHOON LIM, Los Alamos National Laboratory, PHENIX COLLABORATION — PHENIX forward silicon vertex detector (FVTX) was installed in 2012. The FVTX provides precise tracking to distinguish between prompt J/ψ and J/ψ from B decays by measuring the displacement of single muons from primary vertex position. This measurement is a clean probe to access B production down to low p_T. PHENIX has collected a large statistics of $p+p$ and $p+$Au collision data at $\sqrt{s_{NN}} = 200$ GeV in 2015. The $B \to J/\psi$ measurements at forward and backward rapidity with these data sets will be used to study cold-nuclear-matter effects on B production. The performance of the FVTX in the 2015 run and the current status of $B \to J/\psi$ analysis will be presented.

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