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Study of non-prompt J/ψ production from B decays in Cu+Au collisions with the PHENIX Detector at RHIC MARGARET JEZGHANI, XIAOCHUN HE, Georgia State University, PHENIX COLLABORATION — A major objective in the field of heavy ion collisions is to quantify and characterize the properties of QGP by studying heavy flavor production. The J/ψ meson can be produced in one of three ways: 1) directly in the collision, 2) indirectly via feeddown from heavier charmonium states, or 3) from the decay of B-hadrons. If the J/ψ is produced through either of the first two methods, it is called a prompt J/ψ, while the third method produces a non-prompt J/ψ. With the newly commissioned forward silicon vertex detector (FVTX) in 2012, it is possible for the first time at the PHENIX experiment to extract non-prompt J/ψ's from the inclusive J/ψ signal. In this talk, we will present the current status of the data analysis for J/ψ's that come from B decays in Cu+Au collisions with the PHENIX experiment at RHIC.

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