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Non-prompt J/ψ measurement with the PHENIX VTX detector at RHIC

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The bottom quark is a powerful probe to study the characteristics of hot dense medium created in high energy heavy ion collisions. A strong suppression of hadrons containing heavy quarks was observed through the measurement of single electrons semi-leptonic decays. To further understand phenomenon of heavy quark suppression, the bottom and charm production needs to be measured separately. The non-prompt J/ψ from B decay ($B \rightarrow J/\psi + X$) is a direct measurement of the bottom production. The silicon vertex detector (VTX) enables us to identify the $B \rightarrow J/\psi$ through electron pairs ($J/\psi \rightarrow e^+ + e^-$) by measuring a secondary vertex position of the B decays. In this poster, we will report the current status of the analysis measuring the secondary vertex of electron pairs from non-prompt J/ψ decays in 200 GeV p+p and Au+Au collisions.

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