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Nuclear Modification of B mesons in Cu+Au Collisions at 200 GeV measured through the B- \rightarrow J/Psi decay by the PHENIX Experiment

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Because of their large mass, b quarks are expected to lose less energy through gluon radiation than lighter quarks. This effect is most pronounced for $p_T \ll m_q$. J/psi production from the B- \rightarrow J/psi decay is a powerful observable to measure the nuclear modification of B mesons in this p_T range. PHENIX has measured the yield of these non-prompt J/psi's in Cu+Au collisions at 200 GeV at forward and backward rapidity. This measurement was enabled by identifying the secondary vertex of the B meson decay with the Forward Silicon Vertex Detector (FVTX). The Cu+Au system studied is particularly interesting due to the different admixtures of hot and cold nuclear matter effects in the Cu- and Au-going directions.

Summary

Presentation type

Oral

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