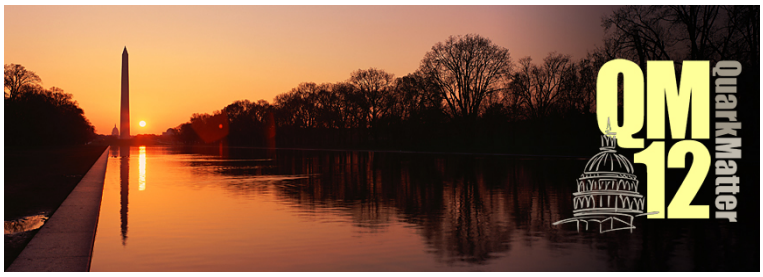

Contribution ID: **323** Type: **Poster**

sPHENIX Jet Reconstruction Performance

Thursday 16 August 2012 16:00 (2 hours)

Reconstructed jets in heavy ion collisions are a crucial tool for understanding the quark-gluon plasma. The separation of jets from the underlying event is necessary, particularly in central heavy ion collisions, in order to quantify medium modifications of the parton shower. Here, we describe a method for quantifying the underlying event contributions in Au+Au collisions at $\sqrt{s_{NN}}$ = 200 GeV utilizing the HIJING event generator (from arXiv:1203.1353) and show the expected jet reconstruction performance in heavy ion collisions using the proposed sPHENIX upgrade dector.

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Session Classification: Poster Session Reception

Track Classification: Experiment upgrades, new facilities, and instrumentation