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Photon-hadron Correlations Measured in Au-Au Collisions at $\sqrt{s_{NN}} = 200$ GeV with the PHENIX Detector MEGAN CONNORS, Stony Brook University, PHENIX COLLABORATION — Two particle correlations are used to understand the jet tomography of heavy ion collisions at RHIC. In particular, photon-hadron correlations are an excellent probe of medium affects. Using the photon momentum to tag the momentum of the opposing jet, we can study jet energy loss and measure the modified fragmentation function. This talk will present the photon-hadron correlations in Au-Au collisions measured from data collected during Run7 by the PHENIX experiment. To make this correlation, we employ an established statistical procedure to extract the direct photon yield which subtracts the background from decay photons from our inclusive measurement. Previous measurements are improved by the increase in statistics achieved in Run 7.

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