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Thermal photon production in Au+Au collisions from PHENIX

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PHENIX measurements of low p_T direct photons in Au+Au collisions at 200 GeV show large yields and simultaneously large anisotropies with respect to the reaction plane. Calculations of thermal photon emission fall short in describing the yield and the anisotropy at the same time. Furthermore, a recent publication of the STAR collaboration indicates lower direct photon yields in Au+Au collisions than observed by PHENIX. In order to provide new insights, in this talk PHENIX will present new direct photon results from Au+Au data taken in 2014. This analysis adds a third independent measurement from Au+Au collisions to the previously published PHENIX results using a dataset that provides a 10 fold increase in statistics for the measurement of direct photon yields and their anisotropy.

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