

# 10th International Conference on Hard and Electromagnetic Probes of High-Energy Nuclear Collisions



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Type: Oral Presentation

## PHENIX results on direct photon production from Au+Au collisions

*Monday, June 1, 2020 12:00 PM (20 minutes)*

PHENIX measurements of low  $p_T$  direct photons in Au+Au collisions at 200 GeV show large yields that have simultaneously a large anisotropies with respect to the reaction plane, and that scale with the charged multiplicity to a power of  $5/4$ , independent of transverse momentum and collision centrality. Calculations of thermal photon emission fall short in describing these three features. 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 PHENIX has shown first results from Au+Au data taken in 2014. These data have 10 fold statistics compared to published results. In this talk we will show the latest direct photon results from this data set.

### Collaboration (if applicable)

PHENIX

### Track

Electroweak Probes

### Contribution type

Contributed Talk

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