

# Analysis status on low-momentum direct-photons in Cu+Cu collisions at $\sqrt{s_{NN}} = 200$ GeV at PHENIX

Direct photons in high-energy heavy-ion collisions are a good probe to understand the full space-time evolution of the collision. The PHENIX experiment measured direct photons in p+p, d+Au, and Au+Au collisions at  $\sqrt{s_{NN}} = 200$  GeV and discovered thermal photons from Au+Au collisions with internal photon conversions. Recently PHENIX has reported thermal photon production with wide centrality bins in Au+Au collisions at  $\sqrt{s_{NN}} = 200$  GeV via external photon conversions. While the number of participants in Cu+Cu collisions are similar to the one in Au+Au peripheral collisions, the collision geometry is very different. Thus a measurement of low-momentum direct-photons in Cu+Cu collisions can provide important constrains on the origin of the observed direct photons. In this poster we report the current analysis status of a measurement of direct virtual-photons in Cu+Cu collisions at  $\sqrt{s_{NN}} = 200$  GeV.

## Preferred Track

Electromagnetic Probes

## Collaboration

PHENIX

**Primary author:** HOSHINO, Tomoya

**Presenter:** HOSHINO, Tomoya

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