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Study of direct photon via internal conversion method in Cu+Cu at $\sqrt{s_{NN}}$ = 200 GeV at PHENIX

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Photons and dileptons in high-energy heavy-ion collisions are godd probe to understand space-time evolution of the produced system. The PHENIX experiment has measured direct photons with internal conversion method in p+p, d+Au, and Au+Au collisions at $\sqrt{s_{NN}}$ = 200 GeV. PHENIX has recently measured direct photons in Au+Au central and peripheral collisions with external conversion method. The results on direct photon in Cu+C, however, have not been published yet. DIrect photons via internal conversion method are measured with e^+e^- pairs as an excess compared to hadronic cocktail after subtracting backgrounds. The PHENIX experiment has as excellent electron identification capability, and thus it can be used for such measurements. We will report the current status of direct photon measurement in Cu+Cu at $\sqrt{s_{NN}}$ = 200 GeV at PHENIX.

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