## Abstract Submitted for the DNP20 Meeting of The American Physical Society

Low- $p_T e^+e^-$  pair production in Au+Au collisions at  $\sqrt{s_{\rm NN}} = 54.4 \, \text{GeV}$  at STAR XIAOFENG WANG, Shandong University, STAR COLLABO-RATION — In high-energy heavy-ion collision, strong electromagnetic fields arising from the Lorentz-contraction of large amounts of charge in nuclei generate a large flux of high-energy quasi-real photons. Dielectrons can be produced via the interaction of these photons. Dielectron production from photon-photon scattering are distinctly peaked at very low transverse momentum. Traditionally these photonphoton processes were expected to exist only in Ultra-Peripheral Collisions (UPC). However, it has been recently realized that even in peripheral collisions, the dielectron production at very low transverse momentum mainly originates from the two photon interactions, which provides a possible tool to directly measure the giant magnetic field created in heavy-ion collisions. In this presentation, we will present measurements of dielectron production at low transverse momentum in peripheral (80-100%) Au+Au collisions at  $\sqrt{s_{\rm NN}} = 54.4 \, \text{GeV}$  at STAR.

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