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Dielectron production in Au+Au and p+p collisions at $\sqrt{s_{NN}}$ = 200GeV at STAR

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We report the STAR newest measurement of dielectron production in Au+Au and p+p collisions at $\sqrt{s_{NN}}$ = 200GeV. The data sets used in the analysis include large samples collected in 2010 and 2011 for Au+Au and 2012 for p+p which both yield about a factor of 3 more statistics compared to previously reported STAR results.

We present the centrality and p_T dependence of dielectron production from low-mass (M_{ee}<1.1 GeV/c^2) and intermediate-mass (1.1<M_{ee}<3 GeV/c^2) regions. The results were measured in the STAR acceptance at midrapidity with full azimuth coverage. The measurements are compared with various models to gain insight of underlying physics. Furthermore, we report the preliminary results of dielectron azimuthal correlation in the intermediate-mass region in Au+Au and p+p collisions at $\sqrt{s_{NN}}$ = 200GeV and compare the data with model calculations.

On behalf of collaboration:

STAR

Author: Mr GUO, Yi (USTC)

Presenter: Mr GUO, Yi (USTC)

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