

Abstract

We present the measurements of the thermal dielectron production in Ru+Ru and Zr+Zr collisions at $\sqrt{s_{NN}} = 200$ GeV with the STAR experiment. The average temperatures extracted from thermal dielectrons in the low-mass and intermediate-mass regions are presented as a function of baryon chemical potential and compared with those from other collision energies and systems. These measurements will shed new light on the understanding of the QGP evolution and the in-medium properties of the ρ meson.

