

**Multi-strange Particles Production from Cu+Cu Collision  
at  $\sqrt{s_{NN}} = 200\text{GeV}$  in the STAR Experiment**

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Strange quark production can be used to probe the partonic nature of dense matter created in nucleus-nucleus collision at RHIC. The enhancement of mid-rapidity strangeness production with different system size has been observed over a range of energies. In this talk, using a full data set of Cu+Cu collisions at  $\sqrt{s_{NN}} = 200\text{GeV}$ , we report the measurements of strange hyperon  $\Lambda^0$ ,  $\Xi$ ,  $\Omega$  and their anti-particles at the STAR experiment. Nuclear Modification Factors  $R_{CP}$  for these particles are compared in detail and the physics implication is discussed. The multi-strange hyperon production per participant for Cu+Cu collisions will be compared with that from Au+Au and p+p collisions at the same beam energy.