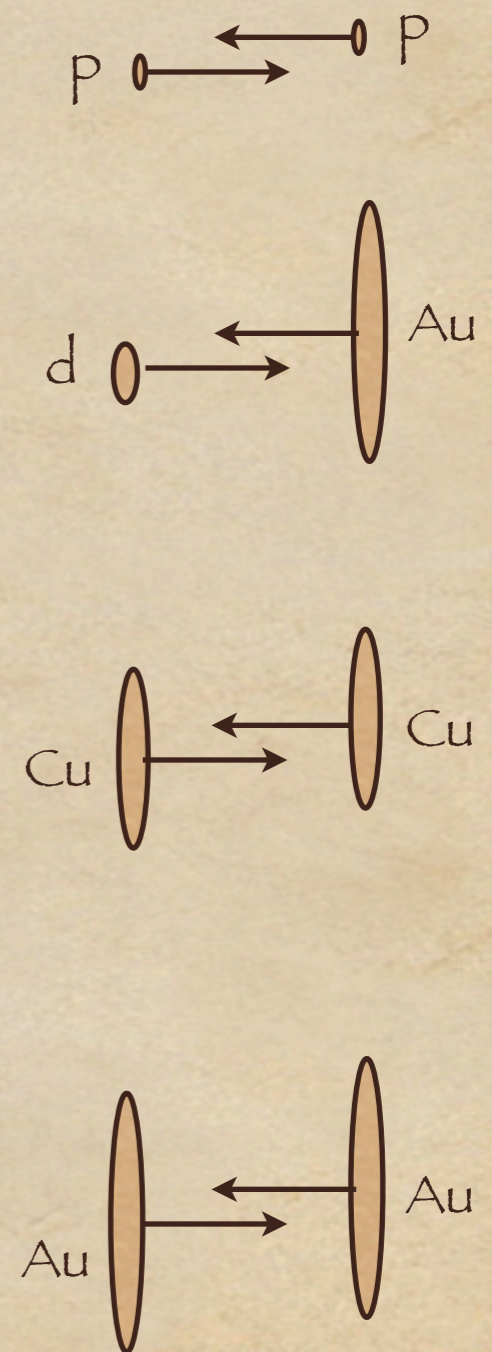
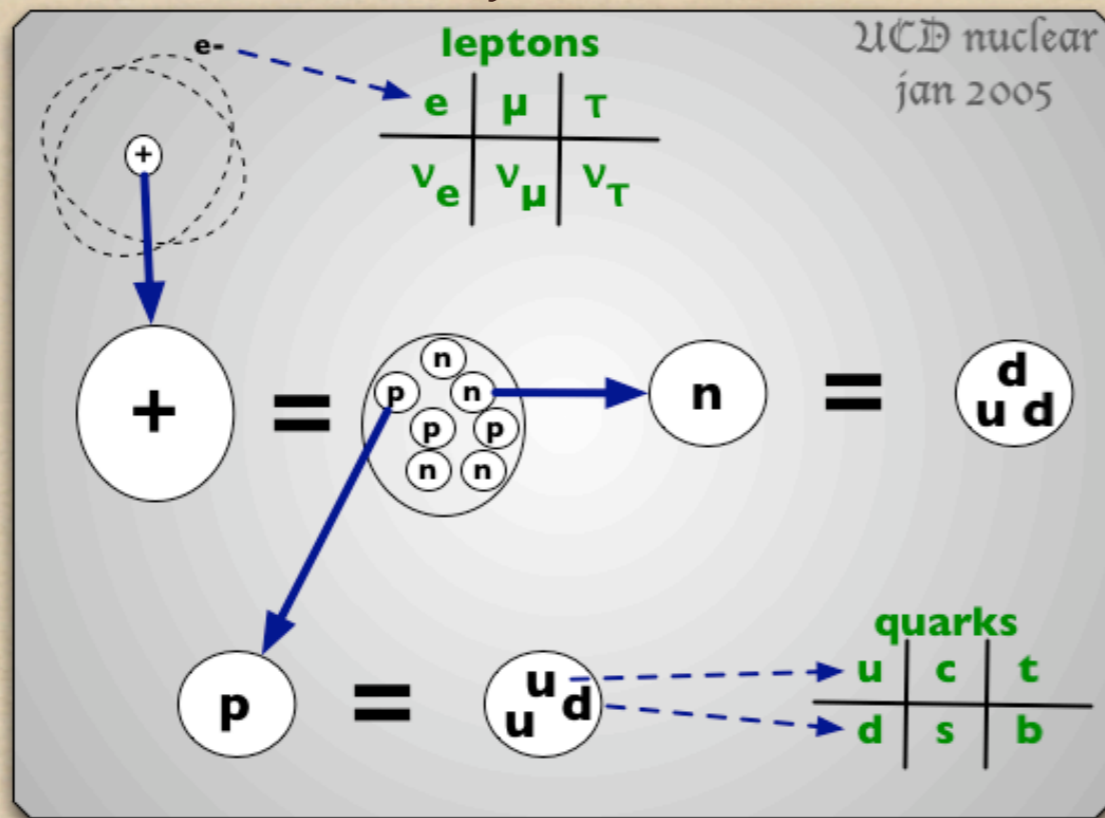


nuclear physics at RHIC

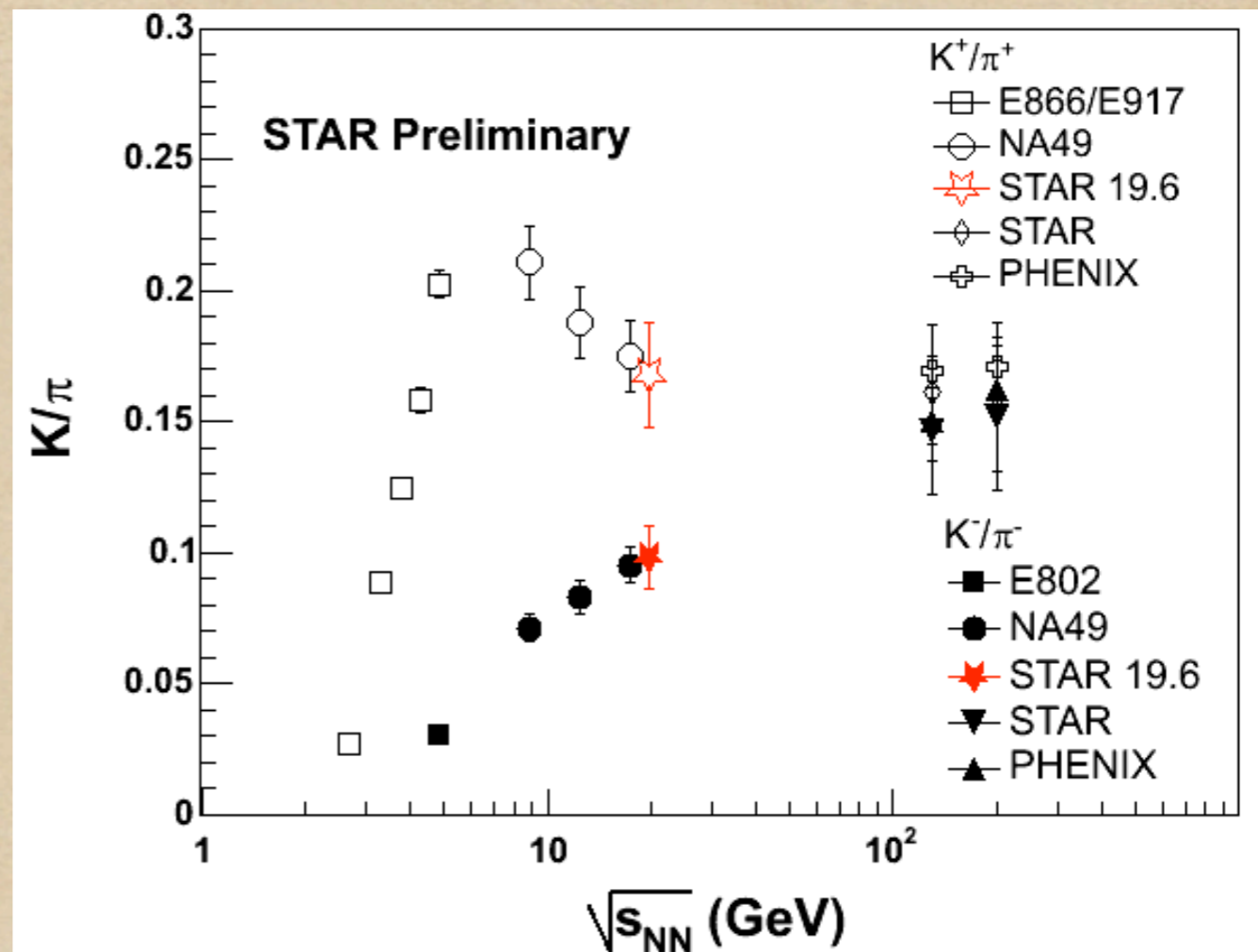


RHIC investigates properties of nuclear matter under extreme energy and density
for gold, max energy = 100 GeV/nucleon

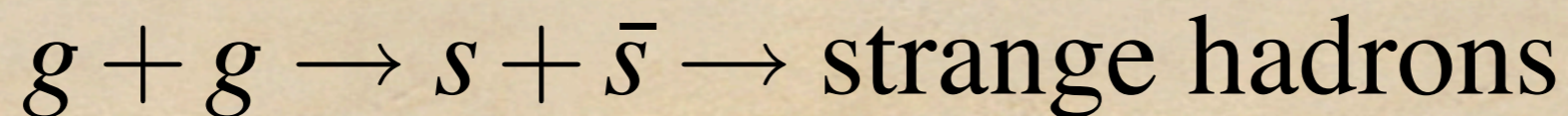
Kaons

$$K^+ = u\bar{s} \quad K^- = \bar{u}s$$

$$\pi^+ = u\bar{d} \quad \pi^- = \bar{u}d$$

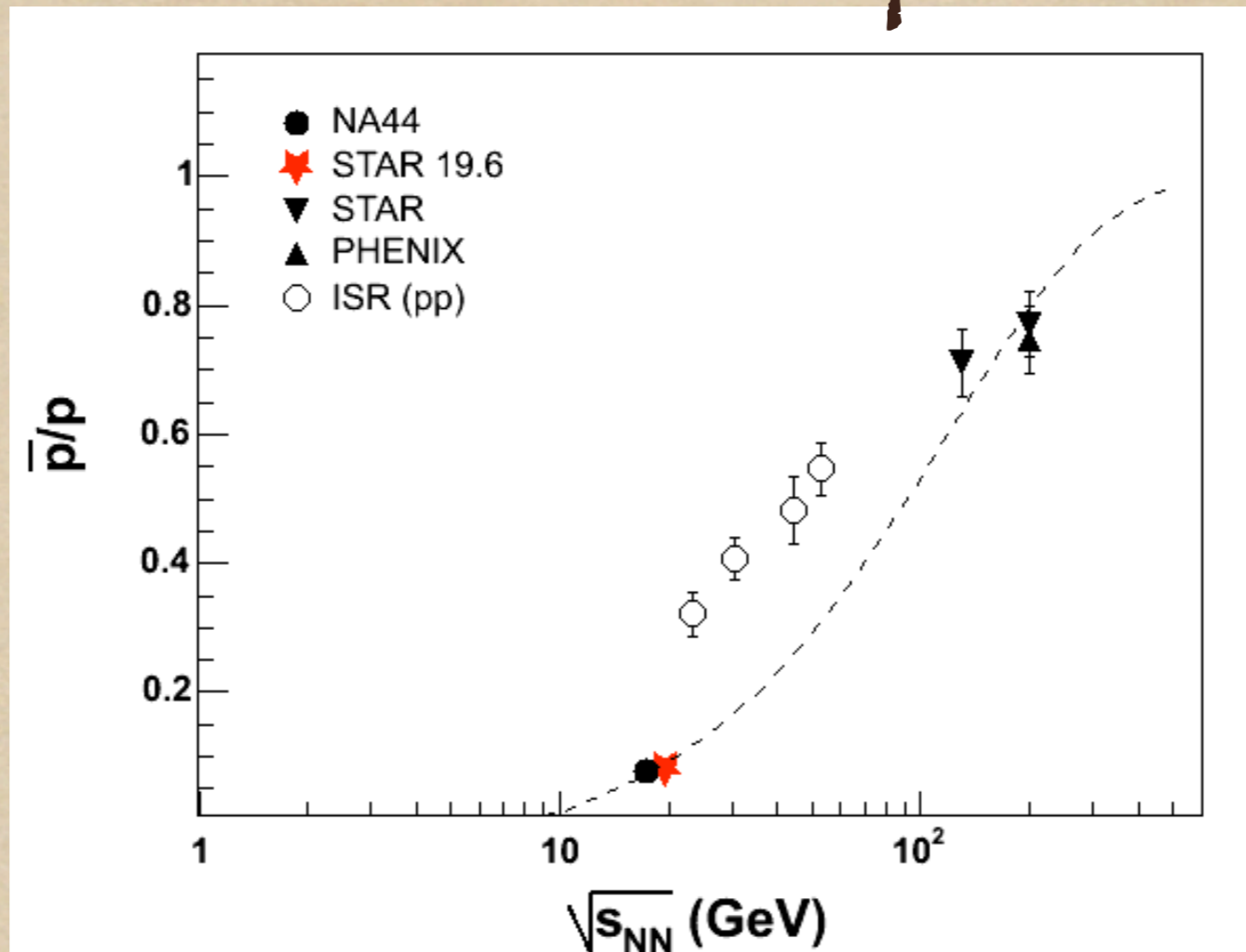


- ◆ strangeness production is predicted to be enhanced if a QGP is formed, due to gluon fusions (PRL48, 1066)



- ◆ interesting sharp peak of K^+/π^+ ratio

antiprotons and protons



- ◆ antimatter/matter reaching unity with increasing collision energy