

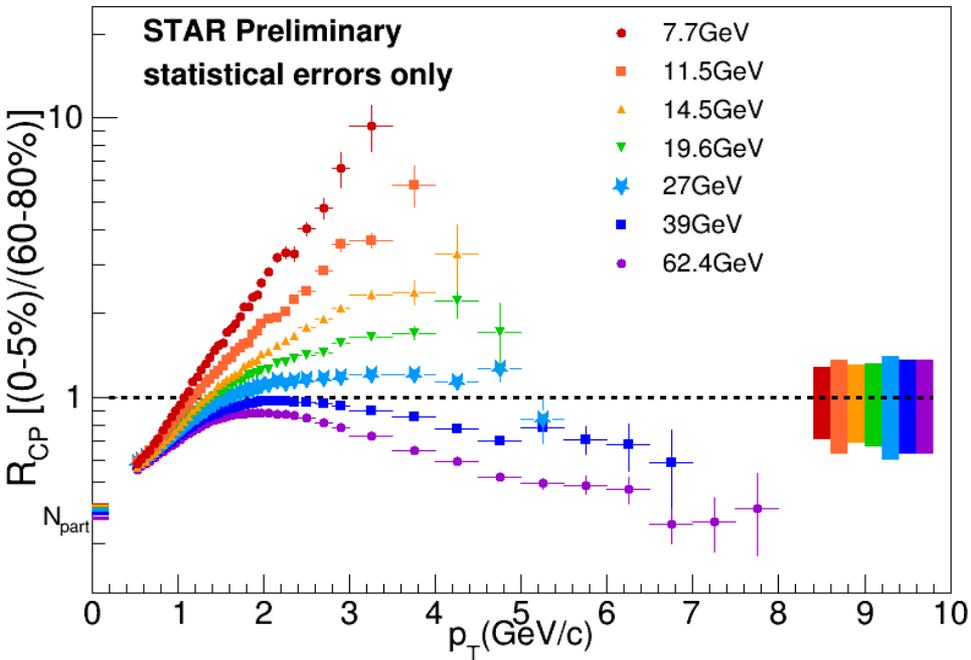
Priorities for d+Au run

- The STAR highest priority for the d-Au run in BUR was 19 GeV followed by 39 GeV, and 200 GeV.
- With the 200 GeV run starting up now we propose that the beam scan gets run in the following order
 1. 200 GeV 1.0 week
 2. 19.6 GeV 1.5 week
 3. 39 GeV 1.0 week
 4. 62 GeV (Not requested by STAR at all)

Physics for 19.6 GeV

- Explore the energy where possible transition from high-pt suppression to enhancement may occur. Other analyses (such as PID spectra and correlations for possible flow) would be carried out as well once the data is being produced.
- This can be obtained with 100M good events
- The STAR measurements will extent the pt reach considerable over previous measurements

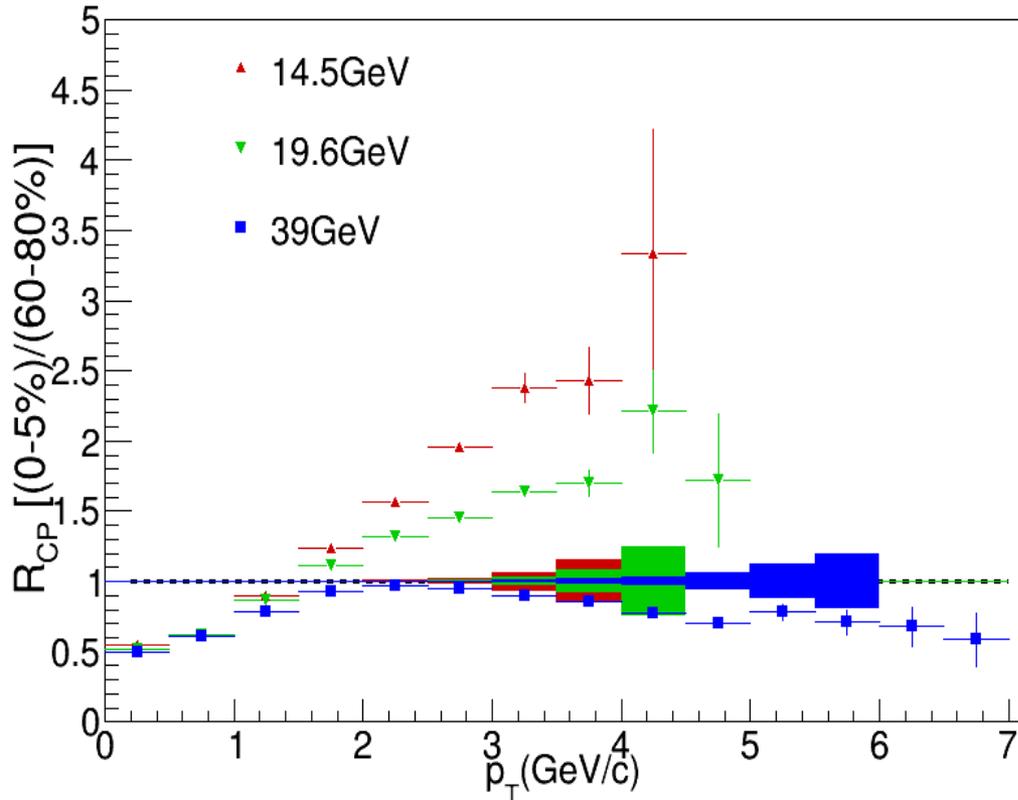
BES Jet Quenching



Au-Au energy scan

A few energy points to figure out
where the jet quenching effect sets in

d+Au miniBES



A few energy points to figure out
where the jet quenching effect sets in
Estimated error for 100M good events events
with d-Au

SPS data

- CERES measured π^0, η, \dots At 450 GeV fixed energy.

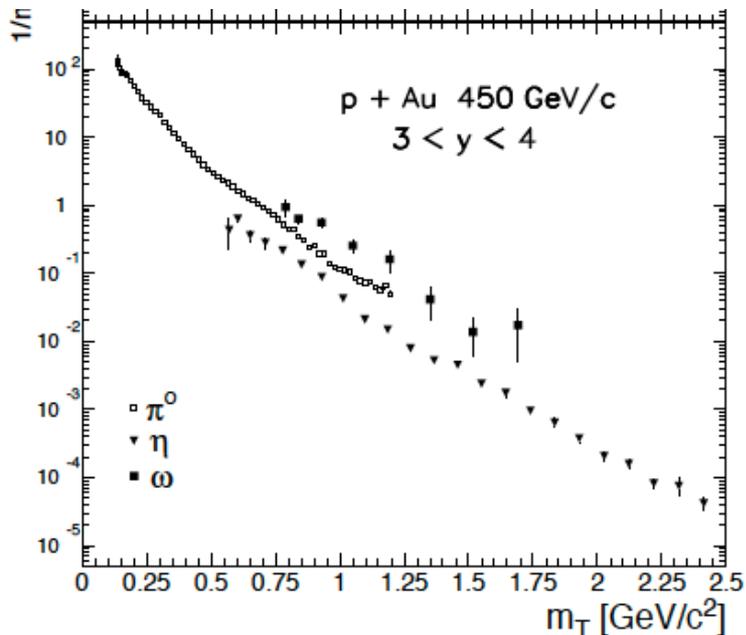
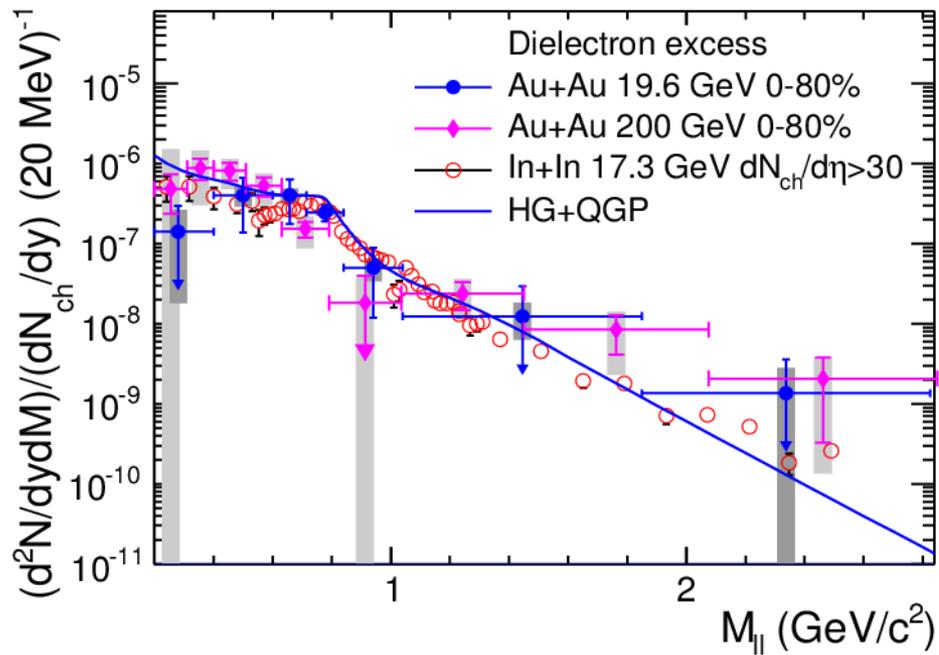


Fig. 7. Transverse mass distributions for the neutral mesons π^0, η , and ω produced in p-Be and p-Au collisions. The errors reflect the statistical uncertainties only

Very few published results;
The plot (left) is from
Eur. Phys. J. C 4, 249{257 (1998)

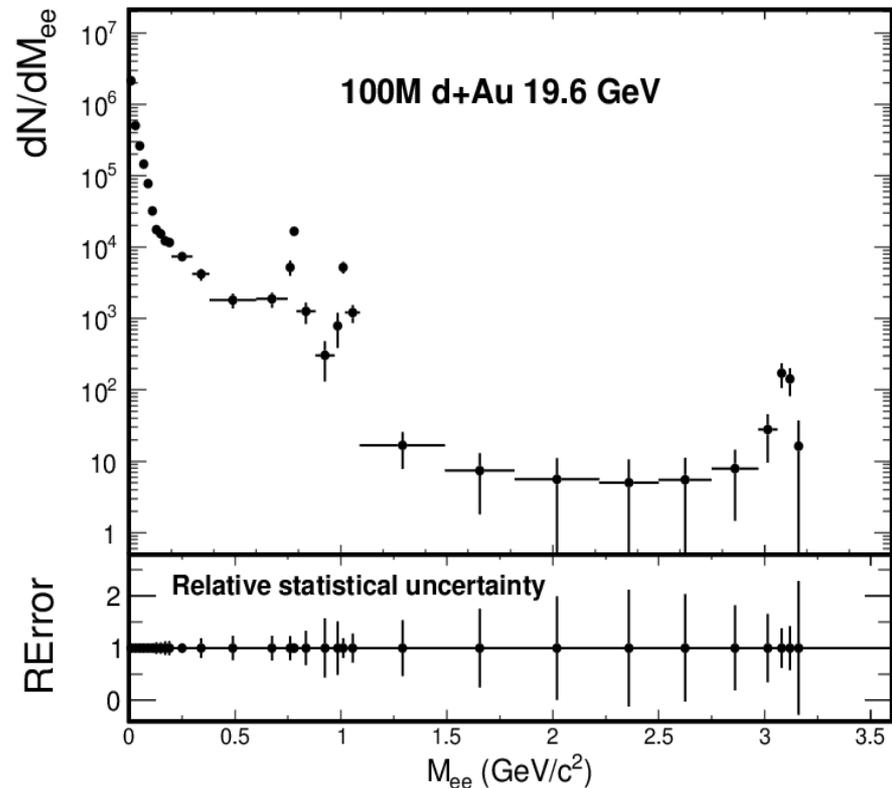
The STAR measurements will extent
the pt reach considerable over
previous measurements

NA49, NA61 has pt reach of $\sim < 1 \text{ GeV}/c$



arXiv:1501.05341

one week of data in 2011 at 19.6 GeV



Study dilepton yields at LMR
 understand reference data
 Any excess beyond cocktail
 small system collectivity?