Minutes of the BRAHMS Phone conference on R_{dA} and particle ratios from pp.

7th November 7, 2003

Present: Ramero, Bjorn, Kris, Ian, JH, Challis and Michael.

Summary: There seems to be a general trend that R_{dAu} (and R_{cp}) decreases with rapidity. Bjorn and Ramero are consistent at η=3. However discrepancies still exist. Bjorn and Ramero will make sure that they are using the same runs and will check that the runs are of good quality. We will do a momentum cut before making the Pt distributions. Claus has produced results very fast at eta=0 and 1. Unfortunately Bjorn's R_{dAu} at η=2 is above that of Claus for η=1.

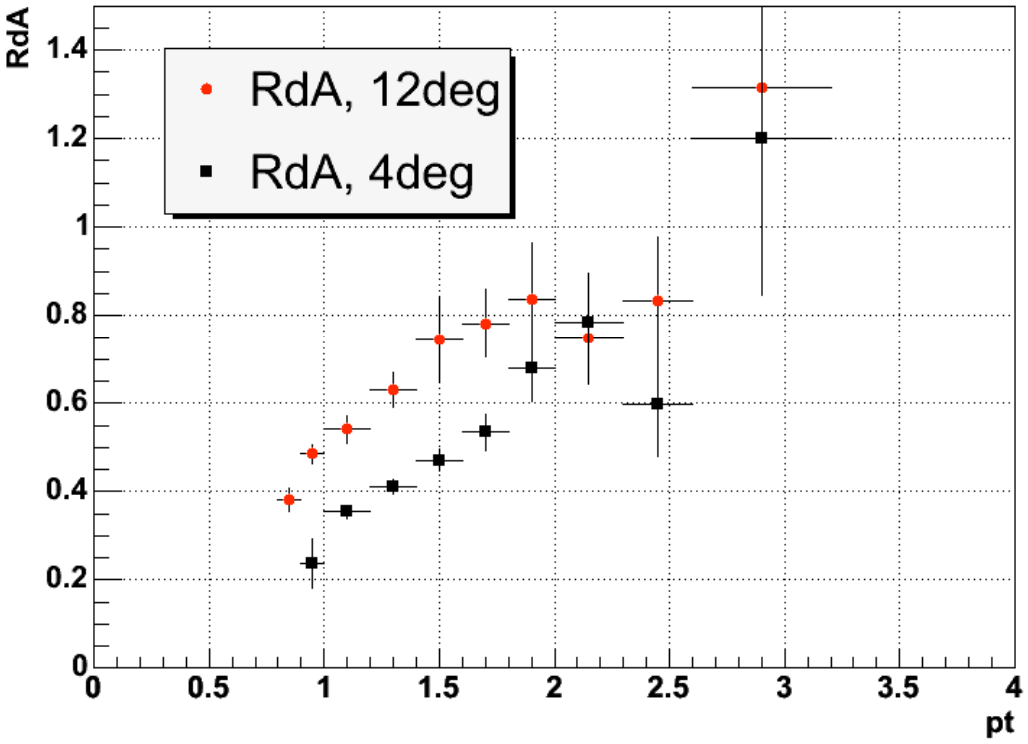
Kris is concentrating on understanding some kinks in the Pt dependence of his particle ratios. He is using mass^2 cuts that are momentum dependent. However sometimes the mean mass^2 is off the book value. He will center his cuts about the actual mean mass^2 of the peaks.

We will talk again on Tuesday at 10am BNL time.

Michael Murray

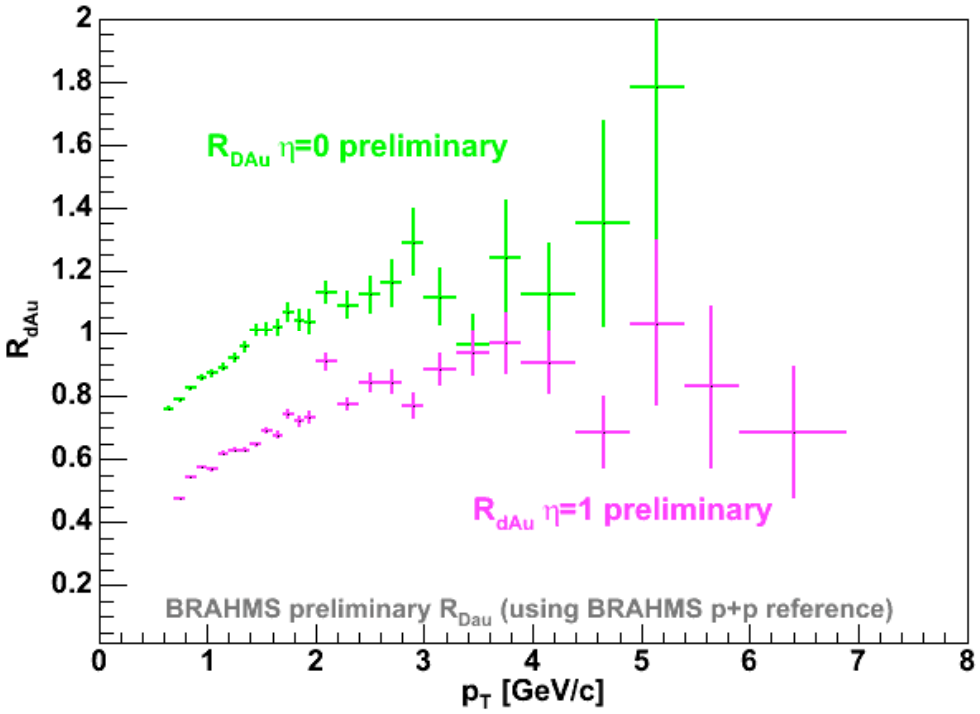
Analysis at 4 and 12 degrees Ramero & Bjorn

So far we haven't used cross sections yet.
They haven't coordinated runs yet but think they are similar
What about error bars. BJ will check. BJ Cross sections done by 1d analysis . BJ
Suggest jiggeling the dEta cut to test systematics .
Will make 2 spectra, 1 from 1/4 field and 1 from 1/2 field.



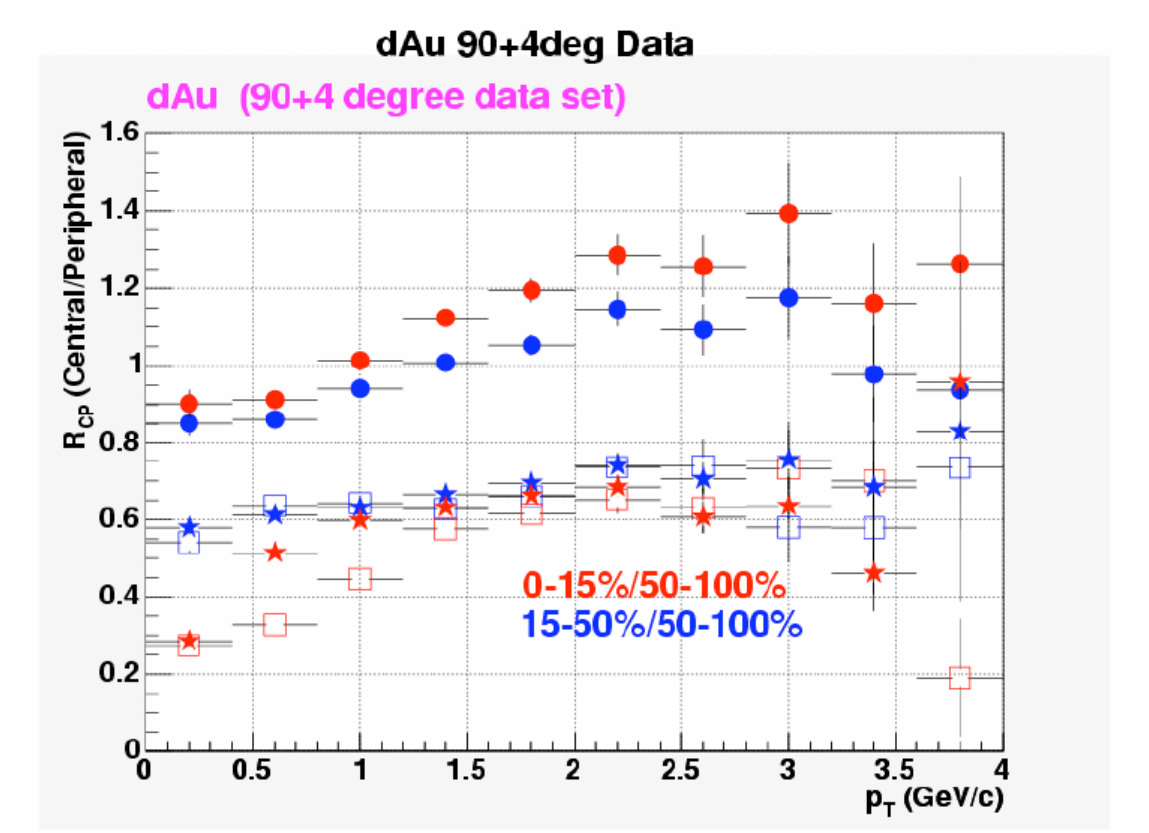
Ramero would like to improve the smoothness of his distributions. He would like to smooth the region pt=1 where we glue 2 settings together. IGB suggests cutting in momentum before we calculate the Pt spectrum.

Trigger bias against high momentum particles since you take 40% of incoming energy away with you.



Claus does a track by track acceptance correction to get spectra. Does he use the

Sum of the squares of the weights to get the errors. At eta=1 we are slightly lower than theirs but we have a narrow eta bin.



Rcp at rapidity 0 is larger than Rcp at rapidity 2 follows saturation story. Claus, Bjorn and Ramero should check quality of runs.

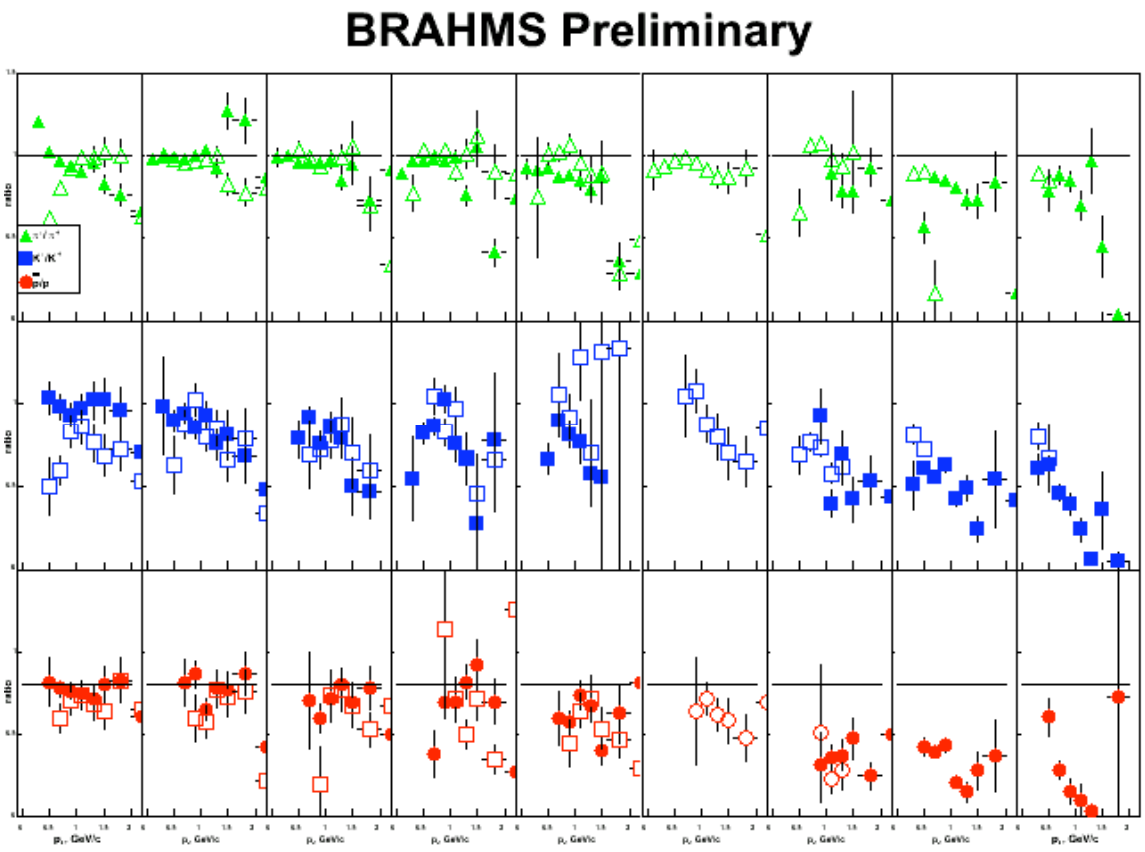
Physics Story
Should present all the spectra in one figure, one with all the pt spectra, 2nd panel RdA. Third figure with Rcp result.

We won't look at 8 degree data since no high momentum runs.

Next meeting Tuesday 9am Texas time.

PP RATIOS

Generally BS and KH aggree



Concentrate on understanding if there is a real Pt dependence.

Summary BJ will concentrate on DST production. This will help both goals. Why is the full spectrometer so different in efficency? Is it the chambers? Present paper can be done with FFS.