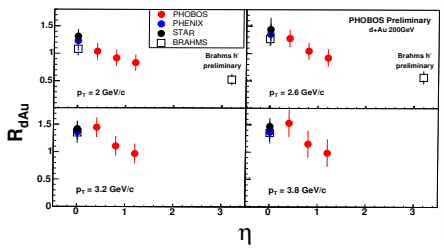
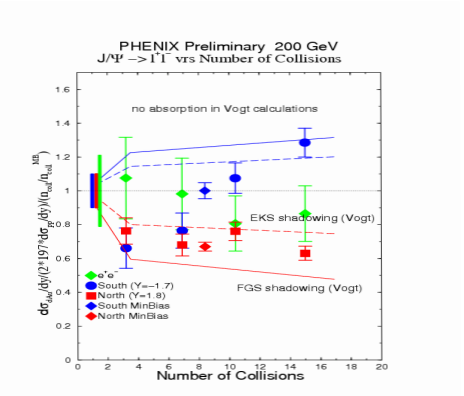
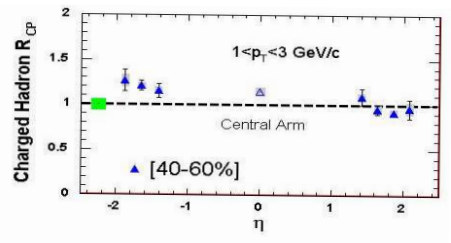
dA Data: More

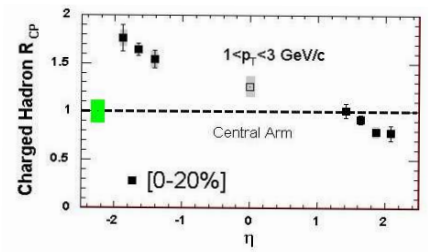


Phobos data at fixed p_T as function of rapidity.



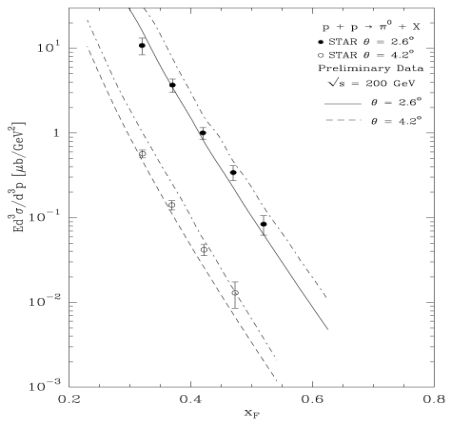
Phenix data for R_{dAu} of J/Ψ as function of centrality for different rapidities



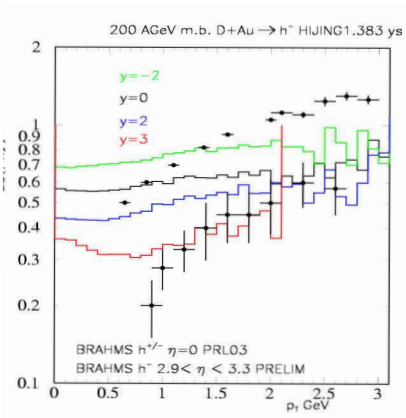


Phenix R_{dAu} for stopped hadrons and charm decays with $1\ GeV < p_T < 3\ GeV$ as function of rapidity and centrality

dA: What does it mean?



Perturbative QCD for single particle inclusive should work at p_T of several GeV



M. Gyulassy, QM2004

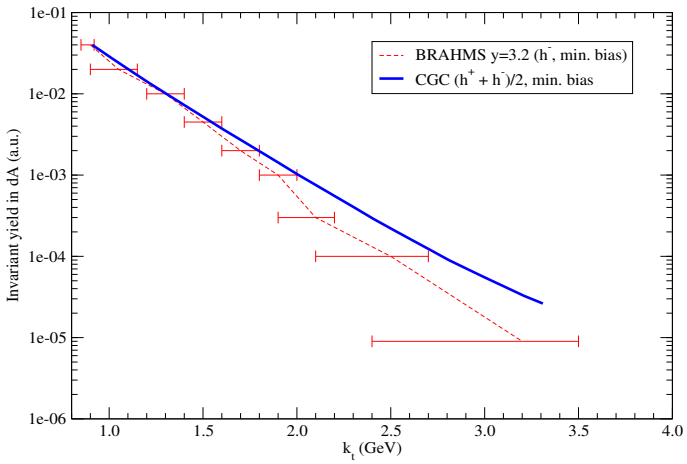
If Hijing with shadowing fits the forward data it is off by about a factor of two for the central data!

If this is "corrected" for multiple scattering one can arrange it to fit the central region but then it is almost a factor of 2 too large in the forward region!
Accardi; Levai et. al. QM2004

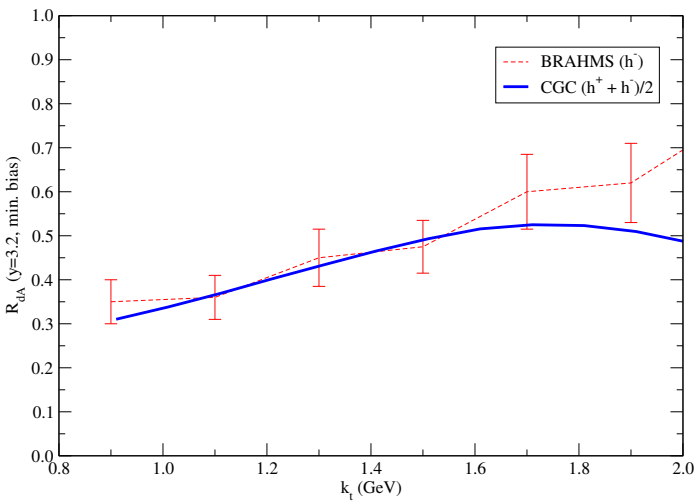
But surely someone will find some shadowing computation

CGC provides a first principles theory of shadowing. It is falsifiable!

Does Color Glass Describe Brahms Data?



Jamal Jalilian-Marian:
Use CGC fits to DIS
and saturation momentum determined
from RHIC multiplicity measurements
No free parameter



Summary

"This is nothing short of a major discovery"
"it's going to trigger a real revolution in nuclear physics"
D. Kharzeev

Revolutions:

A re-allignment of relationships between large groups of people

Friends try to kill one another
Sometimes successfully!

Has bad consequences if you are not successful!

Perhaps the most famous scientific revolution:
The Copernican Revolution:

Ptolemaic theory could describe data much better than Copernican long after Copernican was accepted.

Copernicus had a simple intellectual framework.

It unified a large amount of different phenomena.

It was falsifiable.