

1 Current Status of ΔG

agree organization will be organized by physics not star/phenix

In all cases need to fill out list of expected plots and any new calculations and simulations that might be needed.

1.1 Current status

1.1.1 Recent results Inclusive pi0 and jet

Bernd Abhay(phenix)

rhic data 1st then put in context

Cross section agreements - not here - some general theoretical discussion?

Present STAR and PHENIX results together not in two separate sections

Get away from the 4 curves. especially no GRSV max. Add comparison to other PDFs.

PHENIX may have final 2006 pi0. STAR will not have final just preliminary 2006.

Combined comparison of STAR and PHENIX pi0 results to theory? Combine pi0 and incl. jets in CL or chi² plot?

Other recent results for context. primarily COMPASS - Hermes - others? paragraph, at most a pg -**Abhay**

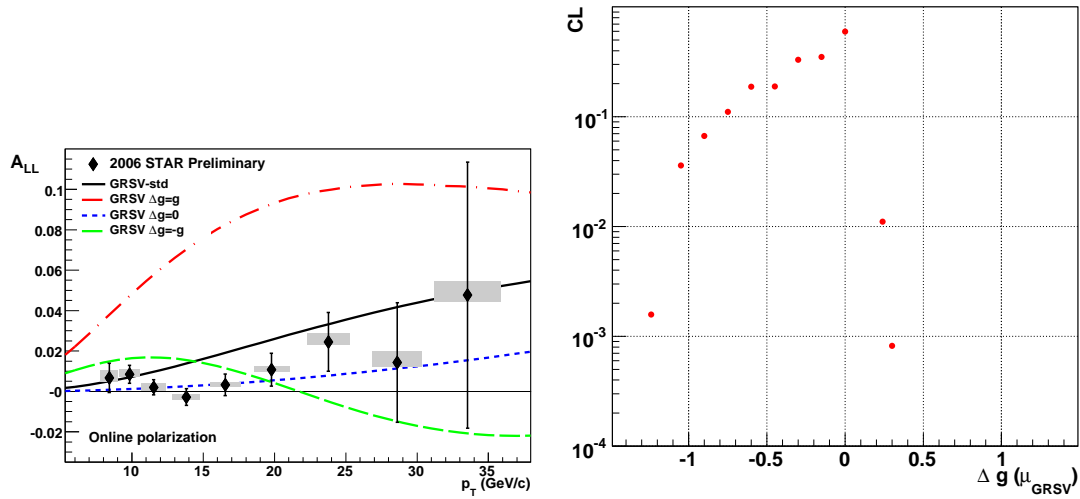


Figure 1. A_{LL} for 2006 inclusive jet data (left) along with confidence level (right). Need data with other curves. We have in principle many pdfs now. Which ones?

1.1.2 Impact of RHIC results

Marco

Recent fits to DIS

Marco - close to a global fit - something to show in few weeks.

Contact ACC?

1.2 ΔG Measurements in the next 5 years

What are the 5 years (2009-2013?)

Should this section split Phenix and STAR or organize by channel? Organize by channels

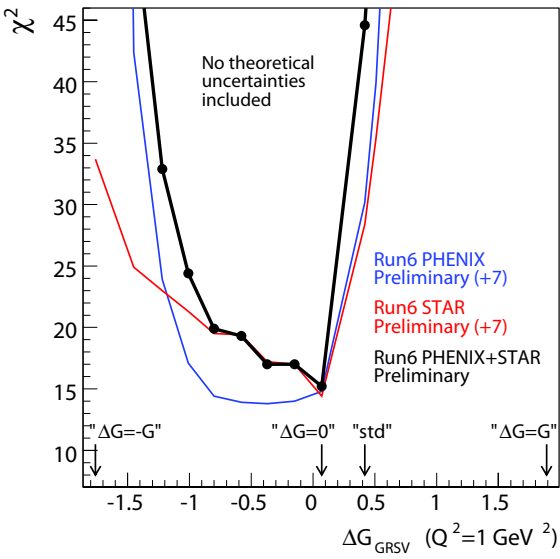


Figure 3. Combined χ^2 plot for Phenix π^0 and STAR inclusive jets from 2006 vs. a series of curves from GRSV with a range of first moments of the gluon polarization distribution ΔG .

In most cases show current results for channels as proof of principle awaiting higher statistics.

1.2.1 Inclusives

Abhay

π^0 STAR and Phenix

jets STAR

gammas Inclusive gamma and gamma-jet NLO predictions of A_{LL} for various PDFs. Werner and Marco supplied some references.

charged hadrons

500 GeV

need graphs to understand what we can do wrt ΔG from various channels from given int lumi.

concern about low x unmeasured region

1.2.2 2 body final states

Jim

dijets and dihadrons

gamma-jet, gamma-hadron

Marco will look up refs for gamma jet nlo calcs

This is where Steve wants the emphasis

500 GeV

1.2.3 Heavy Flavor

Both experiments have tracking upgrades planned. **Yuji, Abhay Bernd**

2 Todo for 2/21

Suggestion was to meet again 2/21 6pm.

Need to specify plots needed and assign to responsables.

Need to specify sections in outline and assign to responsables.

3 Todo for 2/28

Collect existing plots from experiments.