### **RUN 11 RHIC MACHINE/EXPERIMENTS MEETING**

8 Mar 2011

Agenda:

• Status – cryo and other

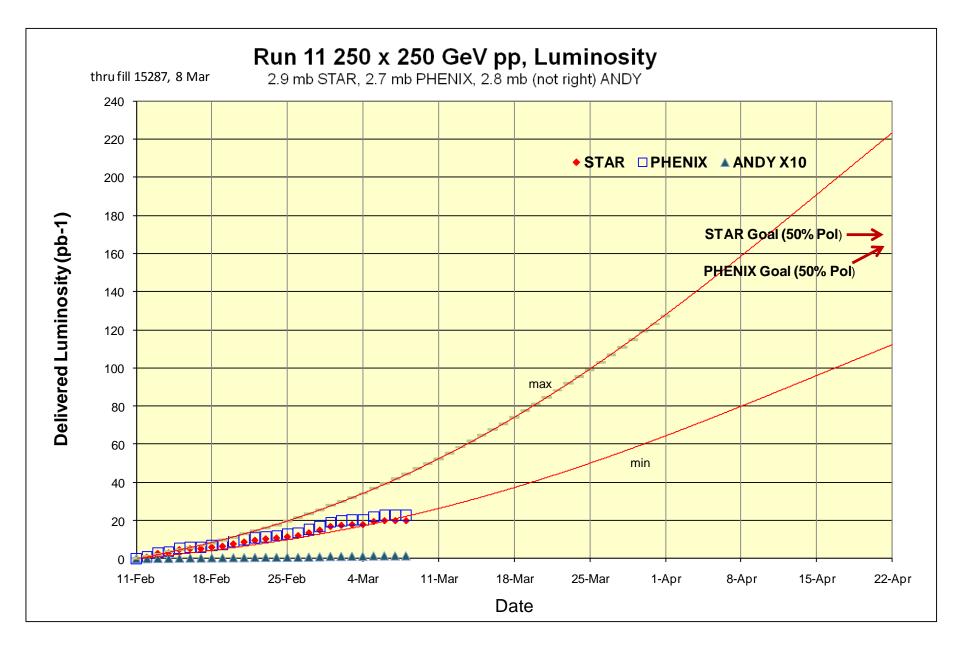
## **RUN 11 RHIC MACHINE/EXPERIMENTS MEETING**

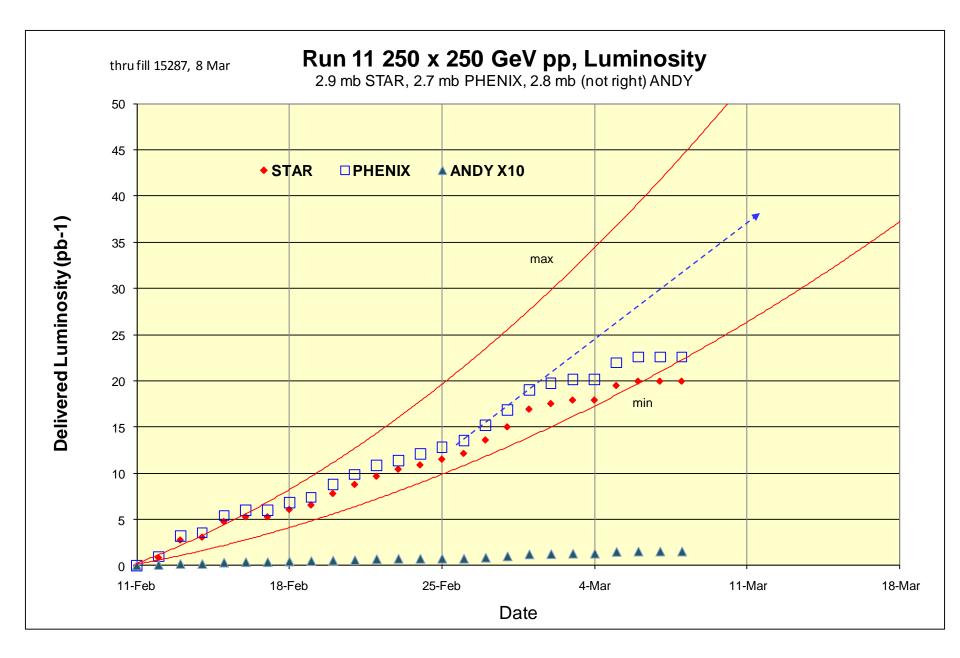
## DECISIONS

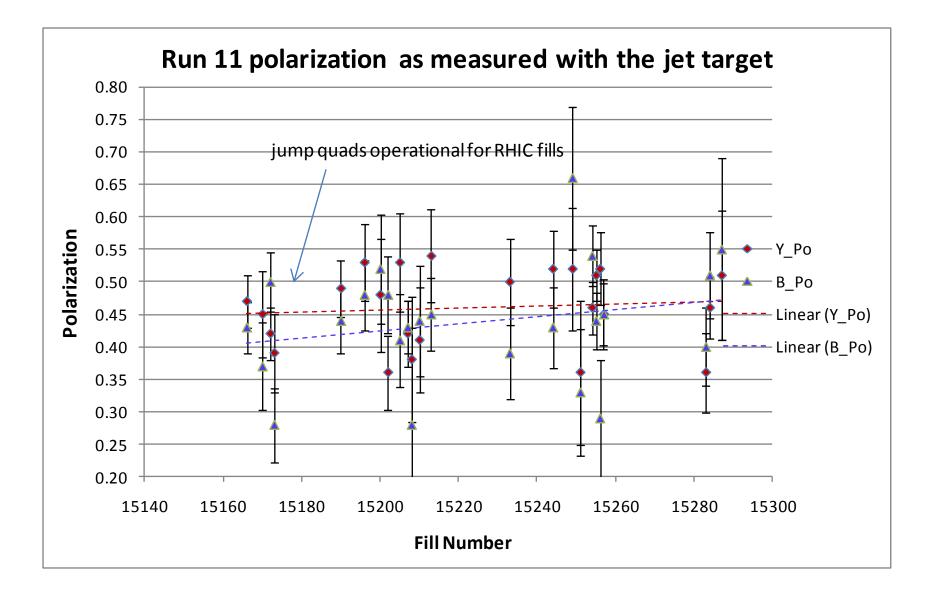
- 11/23/2010: Agreed to new APEX schedule, 12 hour sessions (0800-2400) every other week away from maintenance days.
- 2/25/2011: Beginning with physics store 15239, changed CNI Polarimeter analyzing power to agree with jet target polarization measurements ...18% lower than before.

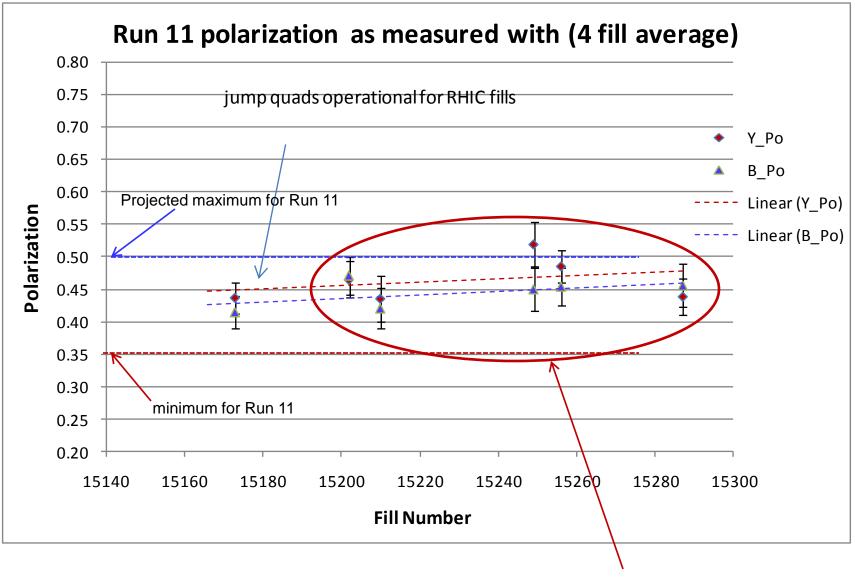
# Run 11 Plan based on PAC recommendation/ALD Guidance and 28.3 weeks cryo operation 3/8/10 update

- 3 Jan, Begin cool-down to 4.5K
- 8 Jan, Cool-down to 4.5K complete in both rings, preliminary setup begins
- ~11 Jan, 2  $\frac{1}{2}$  weeks beam setup for  $\sqrt{s}$  = 500 GeV pp in RHIC begins.
- 15 Jan, power supply work/DX training complete
- 17 Jan, first successful ramp
- 19 Jan, 1<sup>st</sup> maint day
- 27 24 Jan, 1 week Ramp-up with 8 hr/night beam to experiments
- 16 Feb, AGS Jump Quads in routine operation for RHIC injection
- 24 Feb, 9 MHz cavity in routine operation
- 7 March, cryo troubles, extended maintenance
- <u>4 18 March Continuing Resolution Ends</u>
- 28 March 1 April, PAC 2011
- 14 Apr(?), end 10 week physics run at vs = 500 GeV pp run
- 14 Apr, begin 1 week setup for  $\sqrt{s} = 200$  AuAu
- 21 Apr, begin 1 week Ramp-up with 8 hr/night beam to experiments
- 28 Apr, begin 8 week physics run at (Vs = 200 AuAu)
- 23 Jun, end 8 week Vs = 200 AuAu run
- 23 Jun, begin setup for Vs = 192 GeV UU
- 30 Jun, begin  $1\frac{1}{2}$  week physics run ( $\sqrt{s} = 192$  UU)
- <u>4 July completed 26 weeks of cryo operation, may be out of \$\$'s</u>
- 10 Jul, end  $1\frac{1}{2}$  week physics run at  $\sqrt{s} = 192$  GeV
- 10 Jul, begin setup for Vs = 18 GeV AuAu
- 11 Jul, begin 1 week physics run (Vs = 18 AuAu)
- 18 Jul, end 1 week physics run at Vs = 18 GeV
- 20 Jul, warm-up complete (28.3 weeks) Possible additions:
- Low energy test run

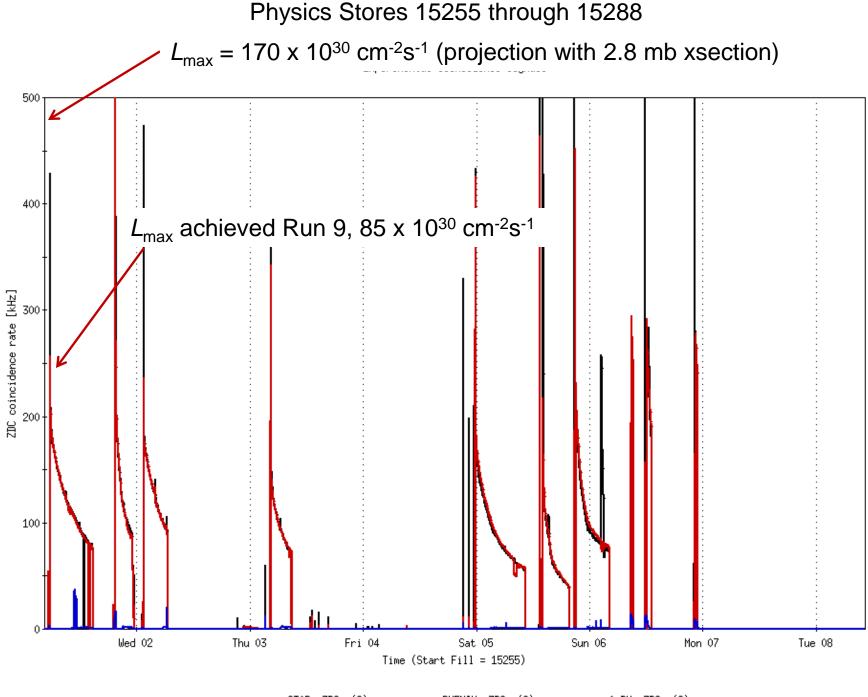






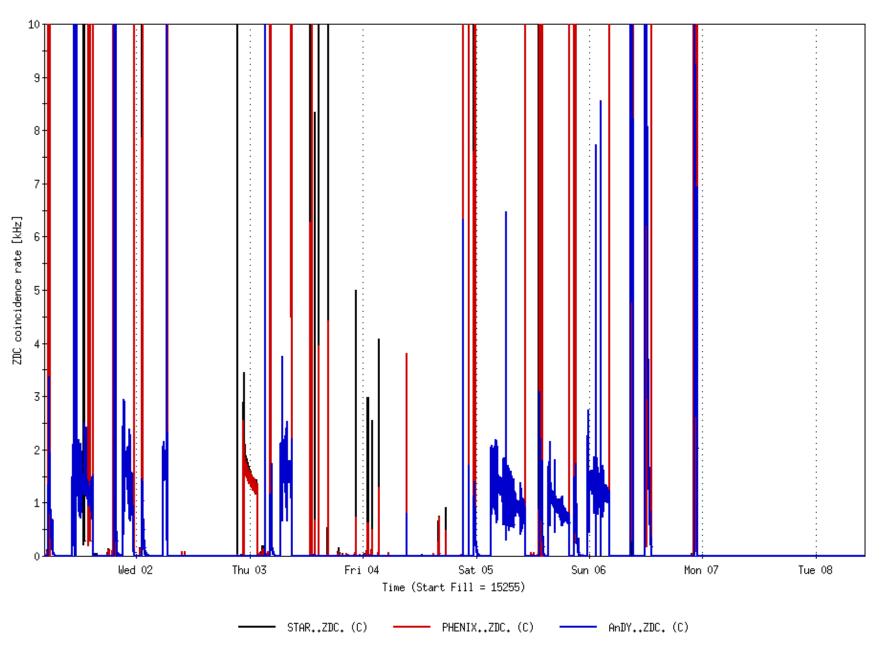


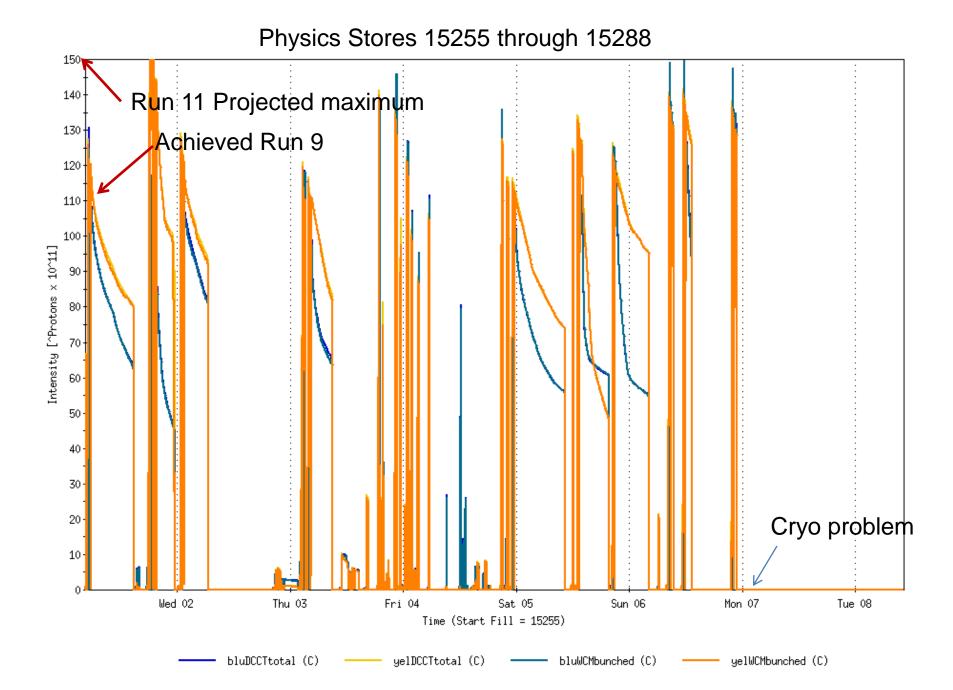
Blue average = 45.1 +/- 1.4% Yellow Average = 46.9 +/- 1.3%



----- STAR.,ZDC. (C) ----- PHENIX.,ZDC. (C) ----- AnDY.,ZDC. (C)

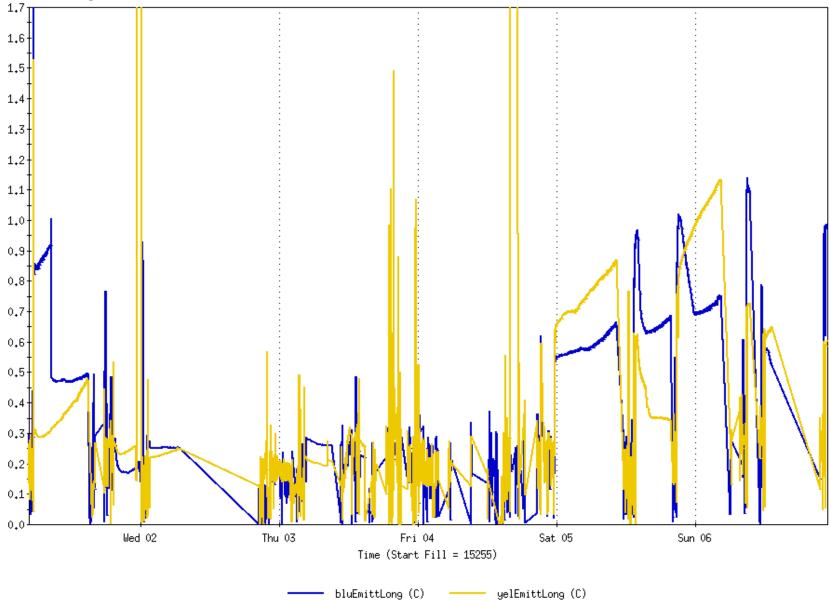
#### Experimental Coincidence Signals



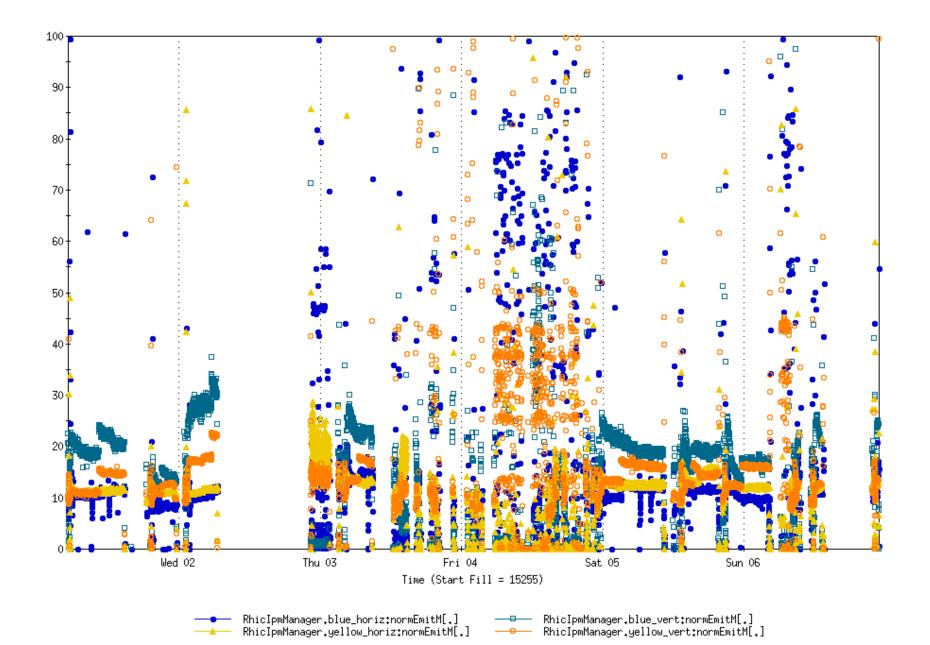


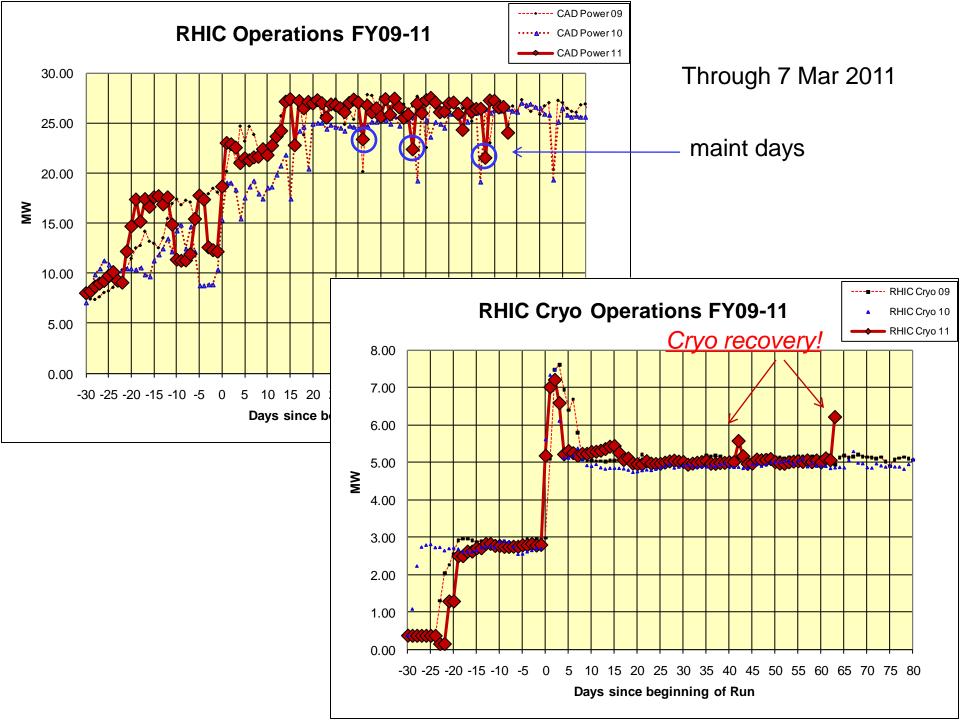
### Physics Stores 15255 through 15288

Longitudal emittance as determined from WCM

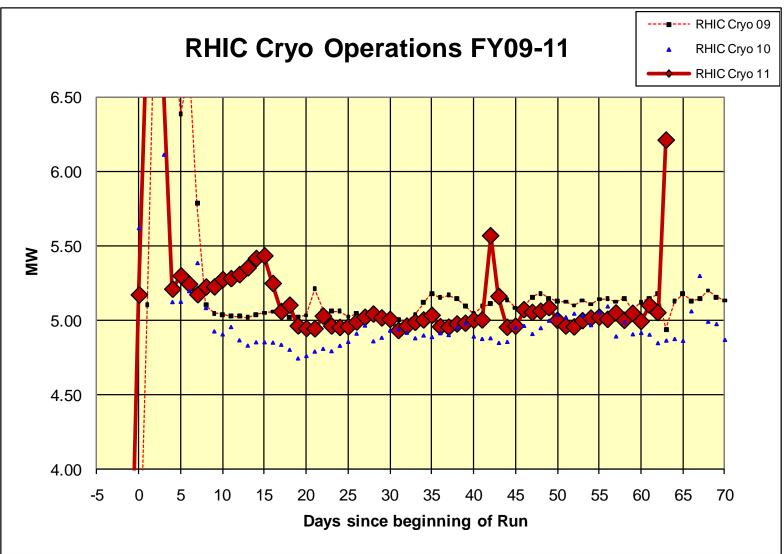


Physics Stores 15255 through 15288

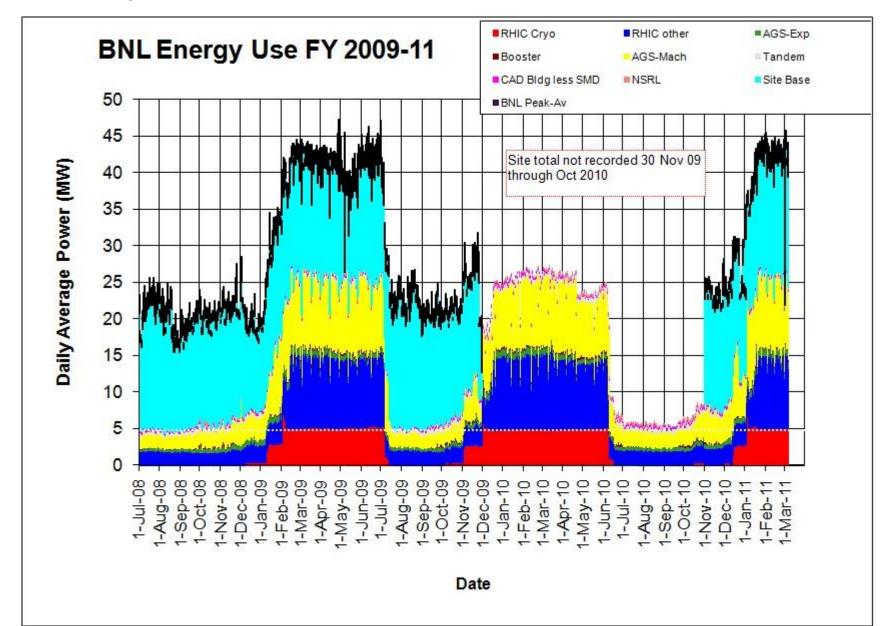




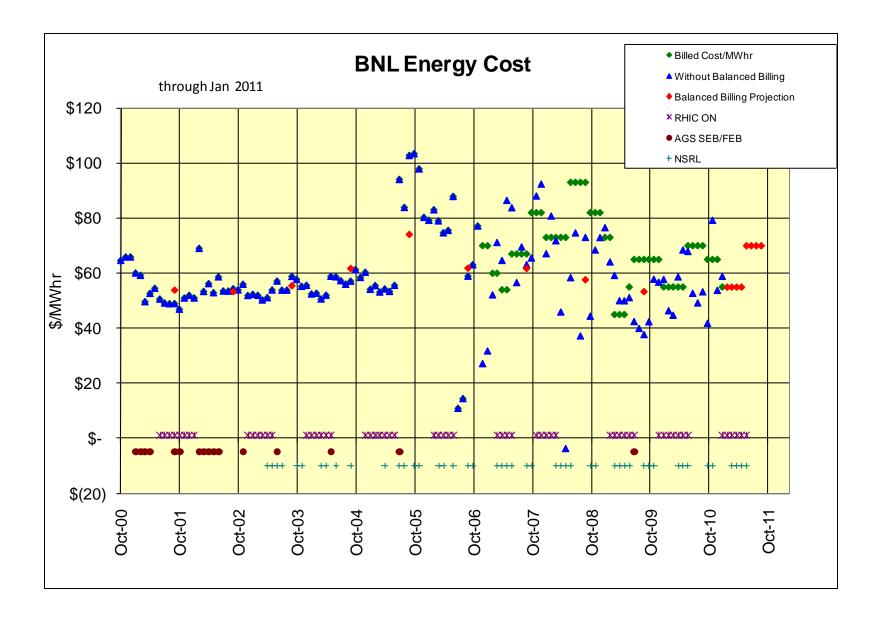
Through 7 Mar 2011

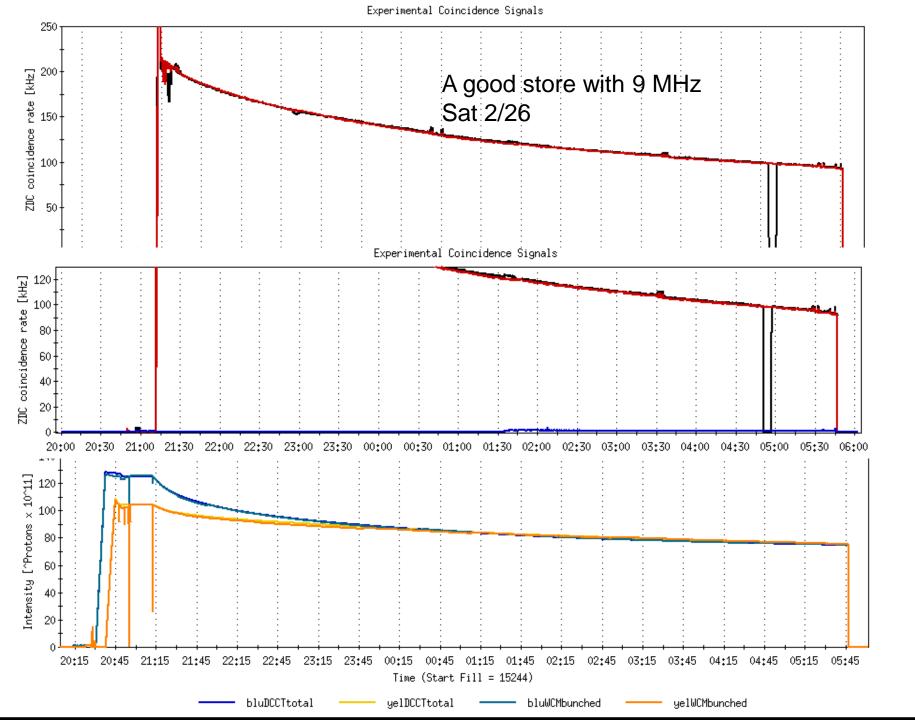


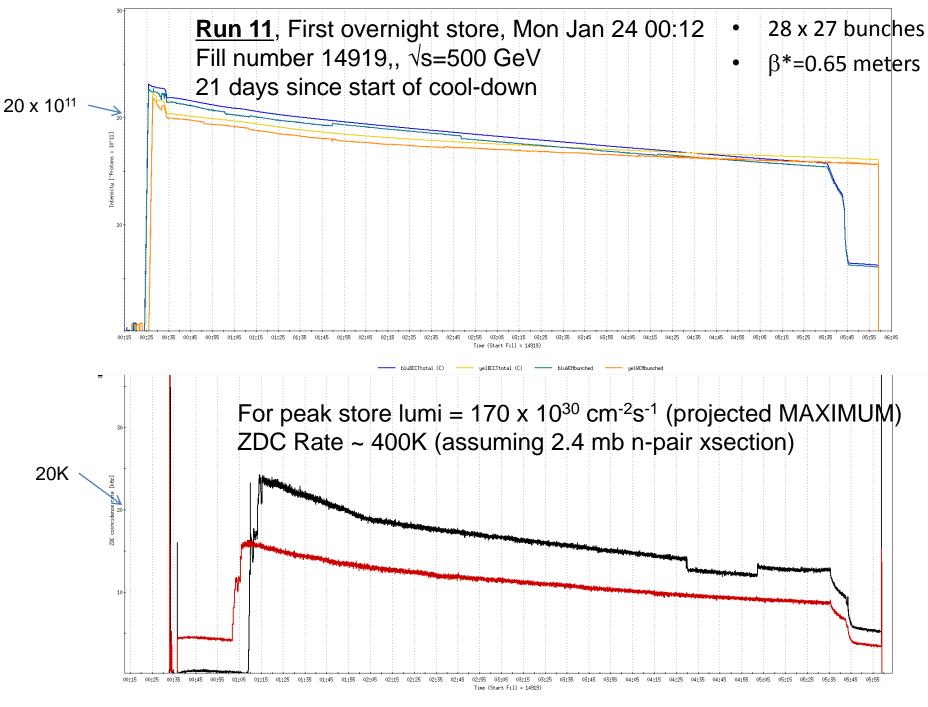
Through 7 Mar 2011

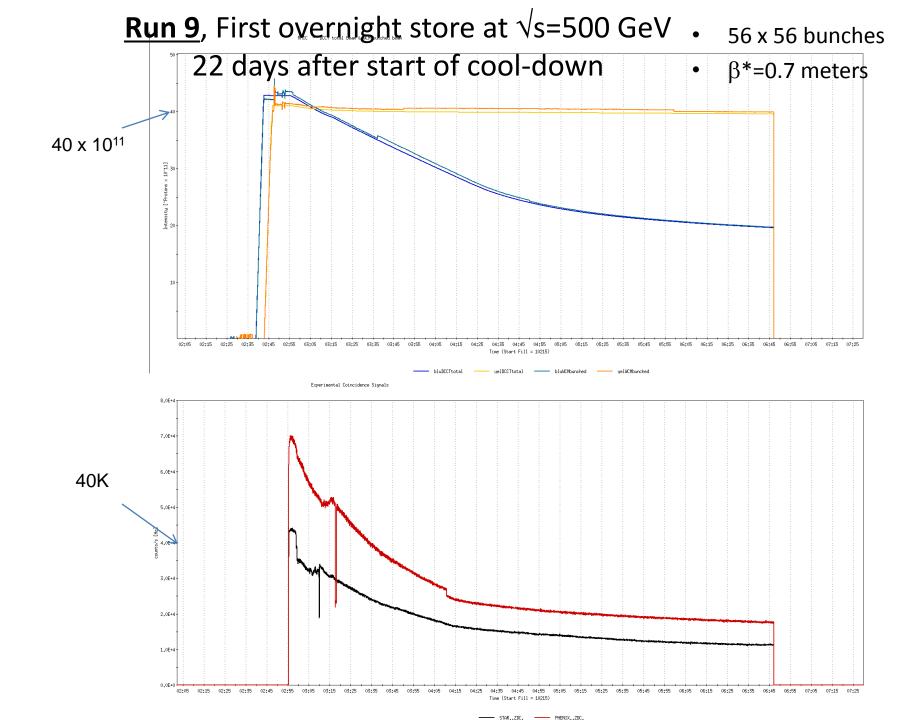


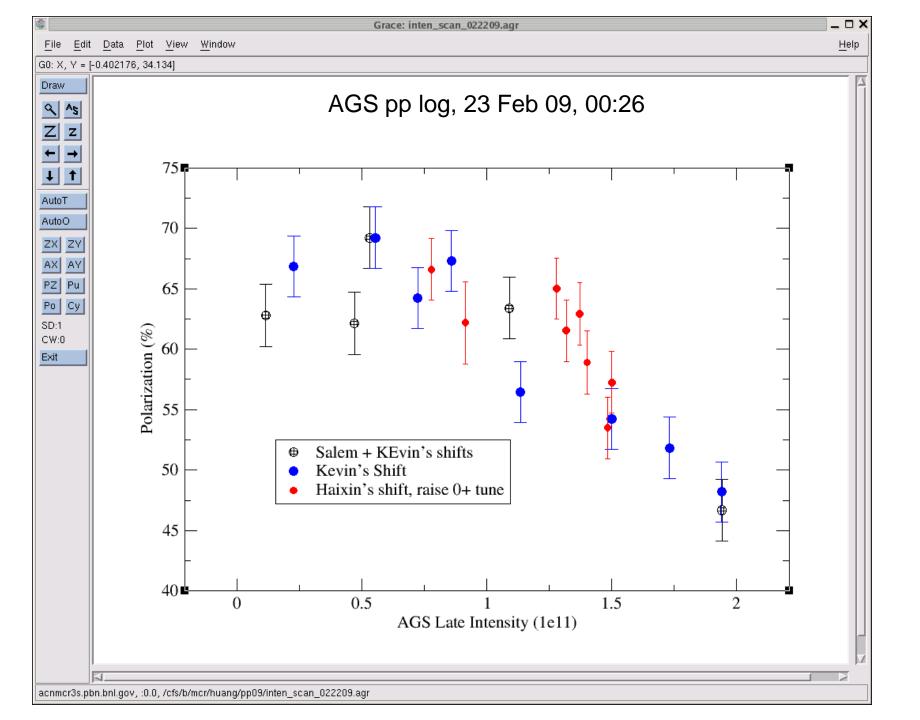
# **Old information**







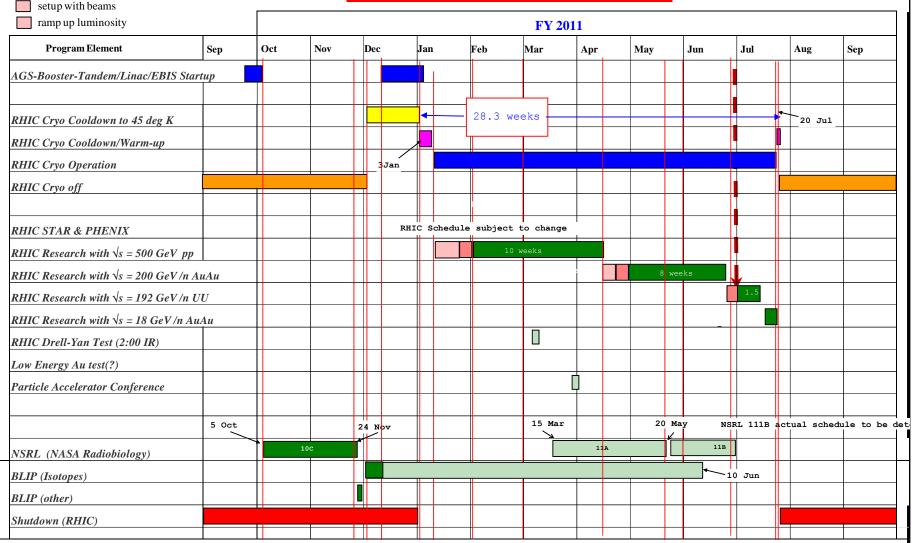


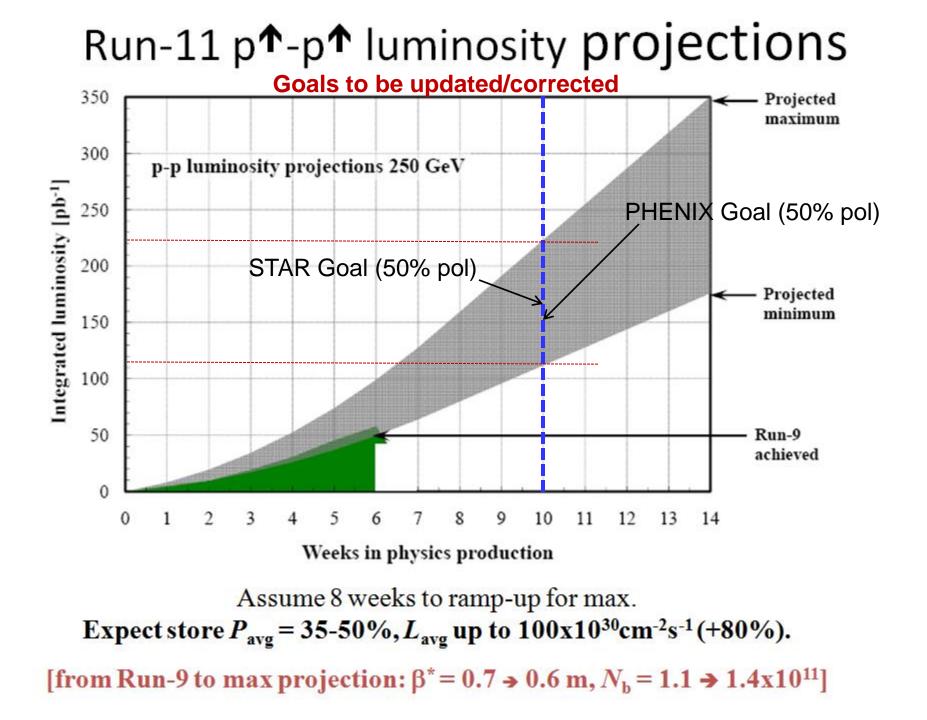


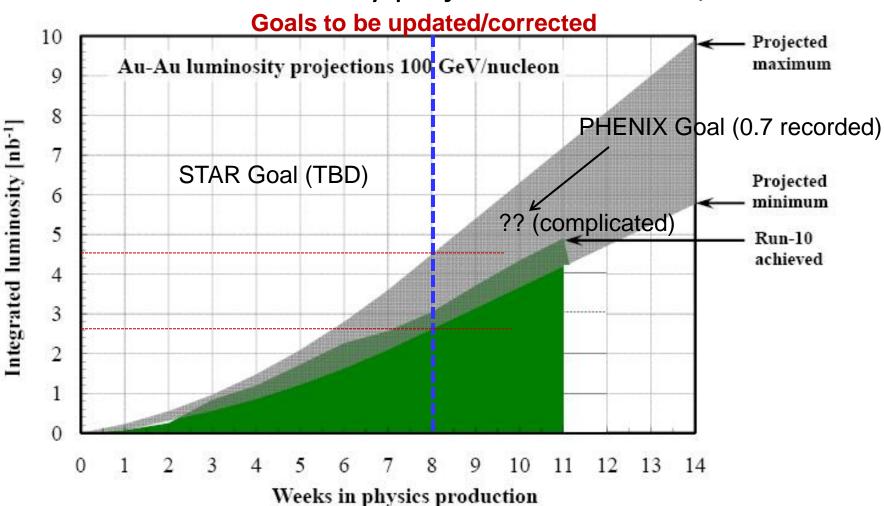
concurrent with RHIC

### **C-A Operations-FY11**

#### planned (budget permitting)







Run-11 Au-Au luminosity projections 100 GeV/nucleon

Assume 6 weeks to ramp-up for min, and 8 weeks for max (stoch. cooling re-commissioning). Expect  $L_{avg}$  up to  $25 \times 10^{26}$  cm<sup>-2</sup>s<sup>-1</sup> (+25%).

[from Run-10 to max:  $\beta^* = 0.75 \rightarrow 0.65$  m,  $N_b = 1.1 \rightarrow 1.1 \times 10^9$ , more cooling] Wolfram Fischer