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

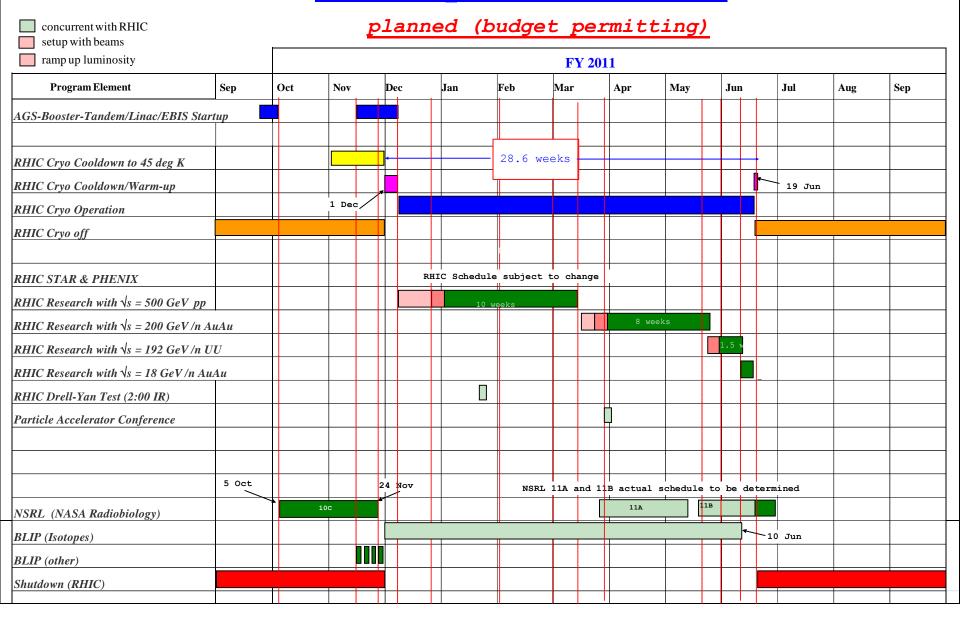
2 Nov 2010

### Agenda:

- Start Date for Run 11 (all)
- Low Energy Test Run C. Montag

#### <u>DRAFT</u>

# **C-A Operations-FY11**



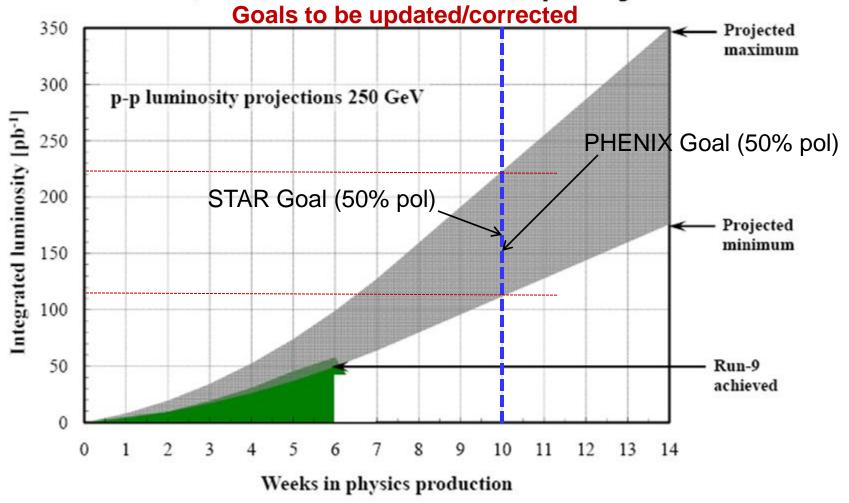
# Run 11 Plan based on PAC recommendation/ALD Guidance and 28.5 weeks cryo operation DRAFT-DRAFT

- Dec. 1, Begin cool-down to 4.5K
- Dec. 7, Cool-down to 4.5K complete in both rings
- Dec. 8, 2  $\frac{1}{2}$  weeks beam setup for  $\sqrt{s} = 500$  GeV pp in RHIC begins.
- Dec 27 (Monday), 1 week Ramp-up with 8 hr/night beam to experiments
- 3 Jan, begin 10 week physics run (vs = 500 GeV pp)
- 14 Mar, end 10 week physics run at  $\sqrt{s} = 500$  GeV pp run
- 14 Mar, begin 1 week setup for √s = 200 AuAu
- 21 Mar, begin 1 week Ramp-up with 8 hr/night beam to experiments
- 28 Mar, begin 8 week physics run at (Vs = 200 AuAu)
- 28 March 1 April, PAC 2011
- 23 May, end 8 week \( \forall s = 200 \) AuAu run
- 23 May, begin setup for √s = 192 GeV UU
- 30 May, begin  $1\frac{1}{2}$  week physics run ( $\sqrt{s}$  = 192 UU)
- 10 Jun, end 1½ week physics run at √s = 192 GeV
- 10 Jun, begin setup for √s = 18 GeV AuAu
- 10 Jun, begin 1 week physics run (vs = 18 AuAu)
- 17 Jun, end 1 week physics run at √s = 18 GeV
- 19 Jun, warm-up complete (28.6 weeks)

#### Possible additions:

Low energy test run

# Run-11 p↑-p↑ luminosity projections

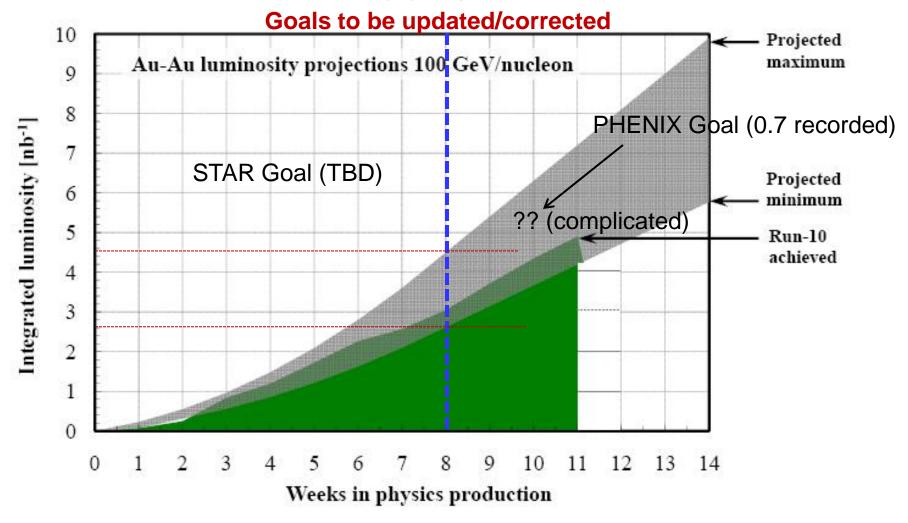


Assume 8 weeks to ramp-up for max.

Expect store  $P_{\text{avg}} = 35-50\%$ ,  $L_{\text{avg}}$  up to  $100 \times 10^{30} \text{cm}^{-2} \text{s}^{-1} (+80\%)$ .

[from Run-9 to max projection:  $\beta^* = 0.7 \rightarrow 0.6 \text{ m}, N_b = 1.1 \rightarrow 1.4 \times 10^{11}$ ]

## 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  $L_{\text{avg}}$  up to  $25 \times 10^{26} \text{cm}^{-2} \text{s}^{-1}$  (+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]