

Revised Run 10 Plan, Nov 25, 2009

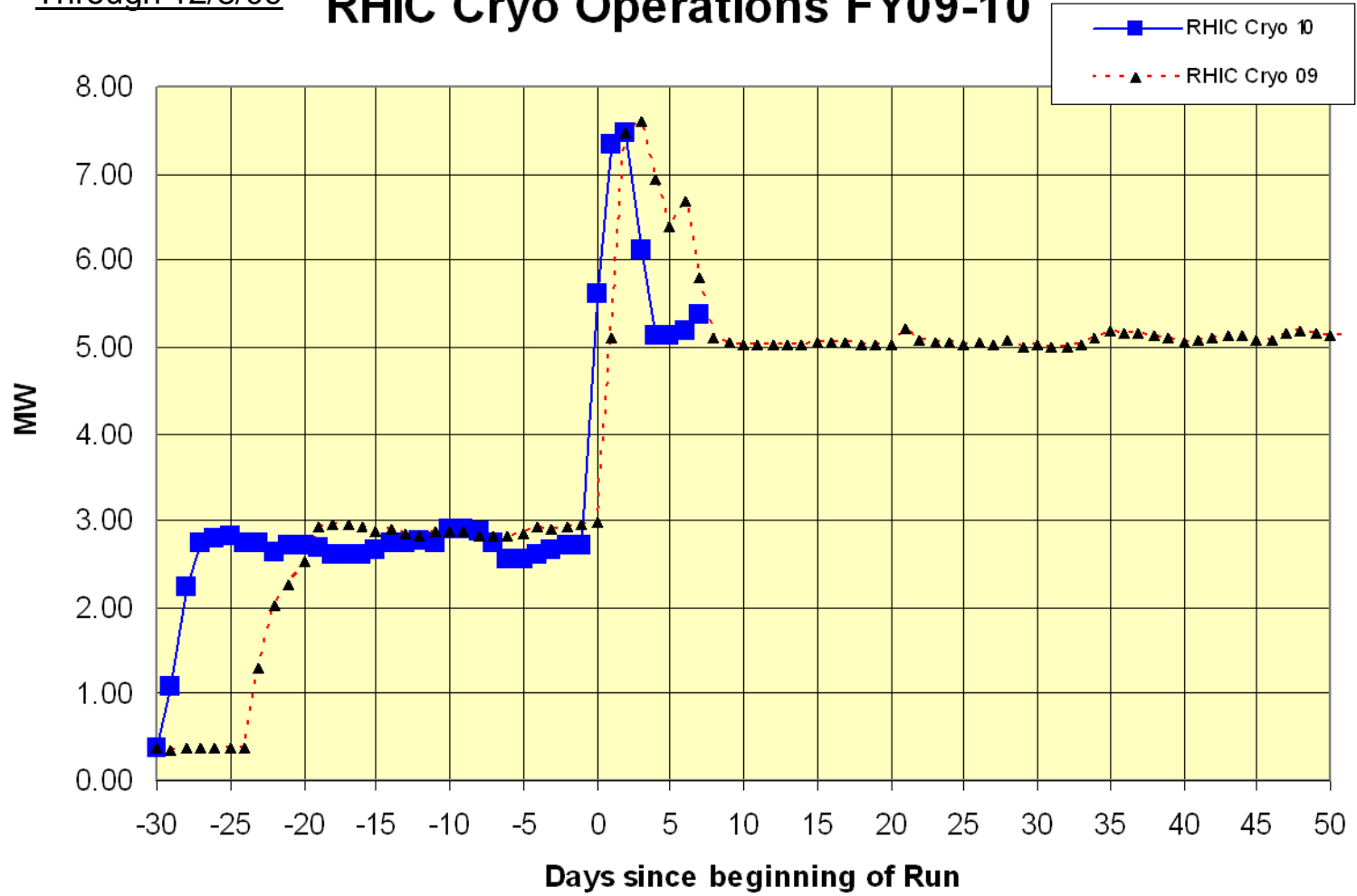
$\sqrt{s_{NN}}$ (GeV)	Physics production or beam studies weeks	
	25-cryoweek run	27-cryoweek run
200	10	10
62.4	4	4
39	1.5	1.5
27	0	0
18	0	0
11.5 @ STAR	0	2
7.7	4	4
Beam studies @ 5 GeV and @ $v \approx 0.67$	0.5	0.5

Possible Run 10 plan based on 25 Nov Revised Plan

- Run10, 25 cryo-weeks (my guesses after Dec 4)
 - Dec. 1, Begin cooldown to 4.5K
 - Dec. 4, Cooldown to 4.5K complete in both rings!
 - Dec. 5, beam setup in RHIC begins.
 - Dec 15, 20 hr unplanned Maintenance day
 - Dec. 17, RHIC Setup complete, begin Ramp Up for Physics (was 14 Dec, late)
 - Dec. 25, Projected Physics start $\sqrt{s}=200$ GeV/n Au-Au (was 22 Dec, late)
 - Mar. 5, End 10 week $\sqrt{s} = 200$ GeV/n Run, begin $\sqrt{s} = 62.4$ GeV/n setup
 - Mar. 7, Begin 4 week $\sqrt{s} = 62.4$ GeV/n run
 - Apr. 4, End 4 week $\sqrt{s} = 62.4$ GeV/n Run, begin $\sqrt{s} = 39$ GeV/n setup
 - Apr. 6, Begin 1.5 week $\sqrt{s} = 39$ GeV/n run
 - Apr. 17, End 1.5 week $\sqrt{s} = 39$ GeV/n Run, begin $\sqrt{s} = 7.7$ GeV/n setup
 - Apr. 19, Begin 4 week $\sqrt{s} = 7.7$ GeV/n run
 - May 17, End 4 week $\sqrt{s} = 7.7$ GeV/n Run, begin $\sqrt{s} = 5.0$ GeV/n setup
 - May 19, begin 0.5 week beam studies at $\sqrt{s} = 5$ GeV/n and $v \sim 0.67$
 - May 23, end 0.5 week studies
 - May 23 , Begin Cryo Warm-up
 - May 25, Warm-up complete, 25 week run ends
- 27 cryo-weeks adds 2 weeks at $\sqrt{s} = 11.5$ GeV/n for STAR with warm-up complete on Jun 9

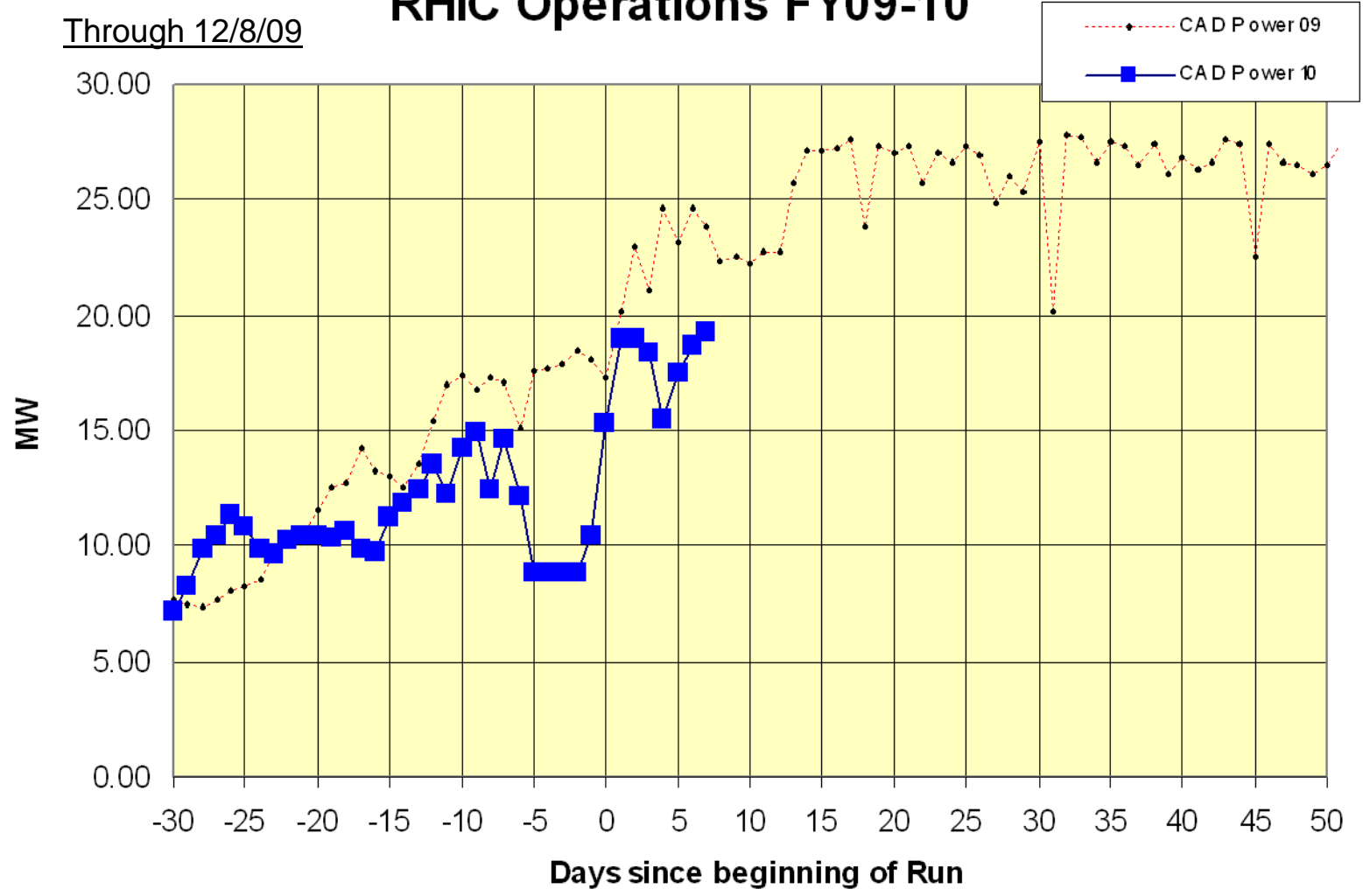
Through 12/8/09

RHIC Cryo Operations FY09-10



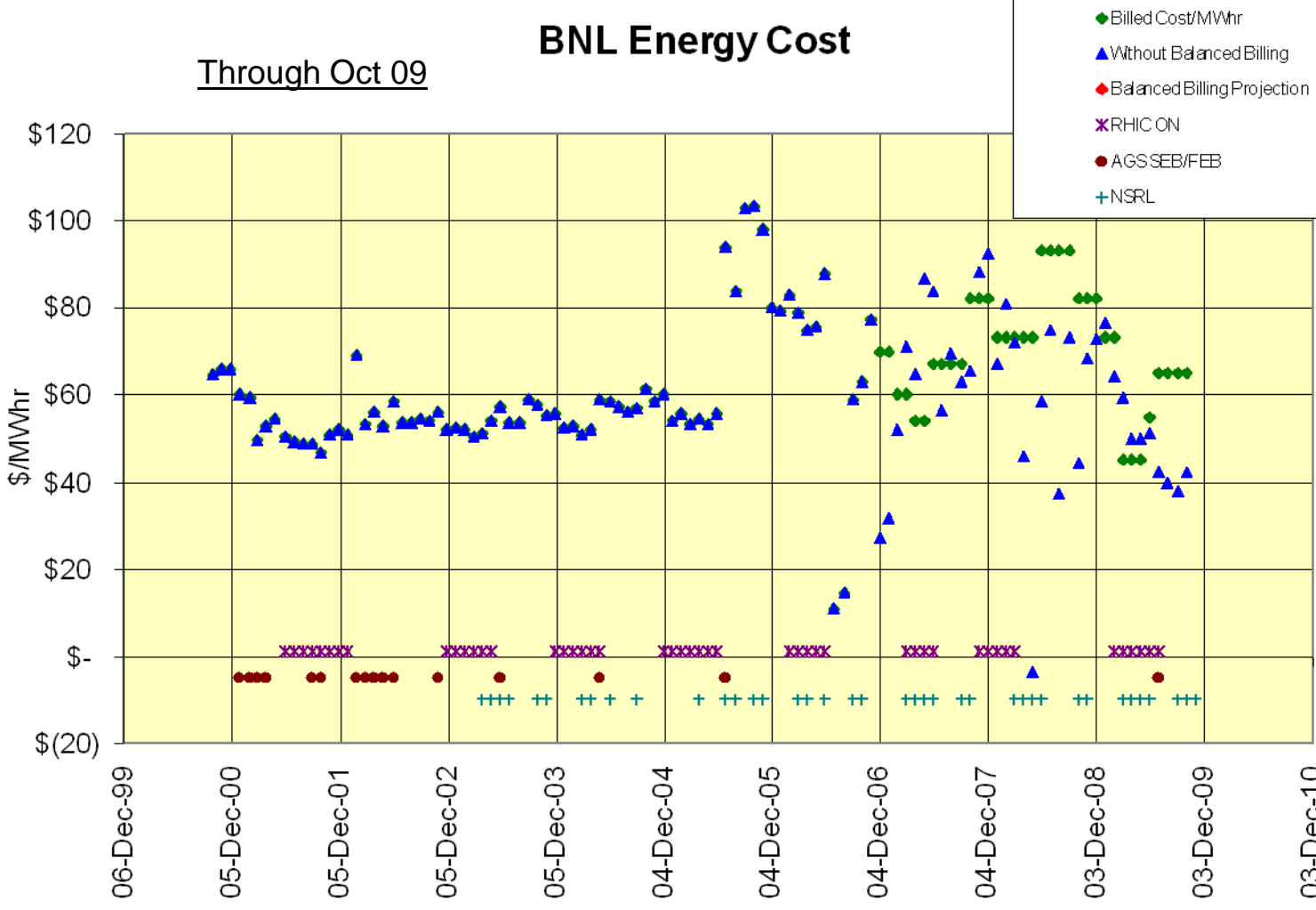
Through 12/8/09

RHIC Operations FY09-10



BNL Energy Cost

Through Oct 09



Future Topics

- Toward Smaller β^* - new quad triplets – D. Trbojevic

Archive

Run 10 Au-Au Goals

11/19/09

- STAR

- $\sqrt{s} = 200 \text{ GeV/n}$

- Luminosity Sampled/Delivered = 2/4 nb⁻¹
 - 250M Central Events
 - 300M Min-bias events

- PHENIX

- $\sqrt{s} = 200 \text{ GeV/n}$

- Luminosity Recorded/Delivered = 1.4/>6 nb⁻¹
 - Minimum Goal:
 - Luminosity Recorded/Delivered = 1.1/3.9 nb⁻¹

Run 10 Setup

- Oct. 5, N2 scrubbing
- Oct. 30, Temp. Control devices in and ready (required for 45 K wave cooldown).
- Nov. 2, 45 K wave begins.
- Nov. 12, AGS Testing.
- Nov. 12-13, APEX Workshop
- Nov. 16, beam setup in Booster and AGS
- Nov. 16-20, RHIC Dry Run
- Nov 22, Beam extracted from AGS to W dump

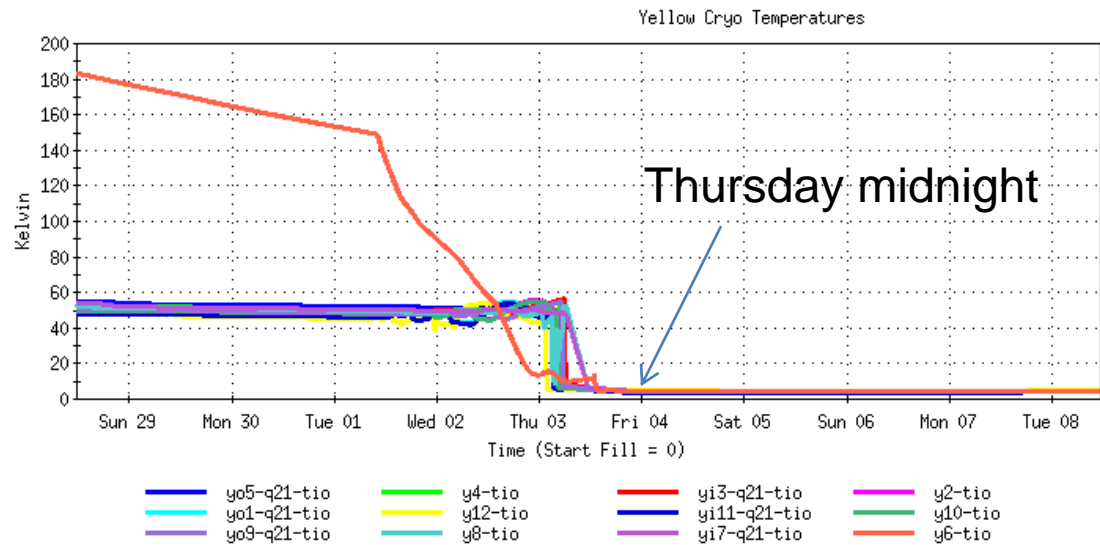
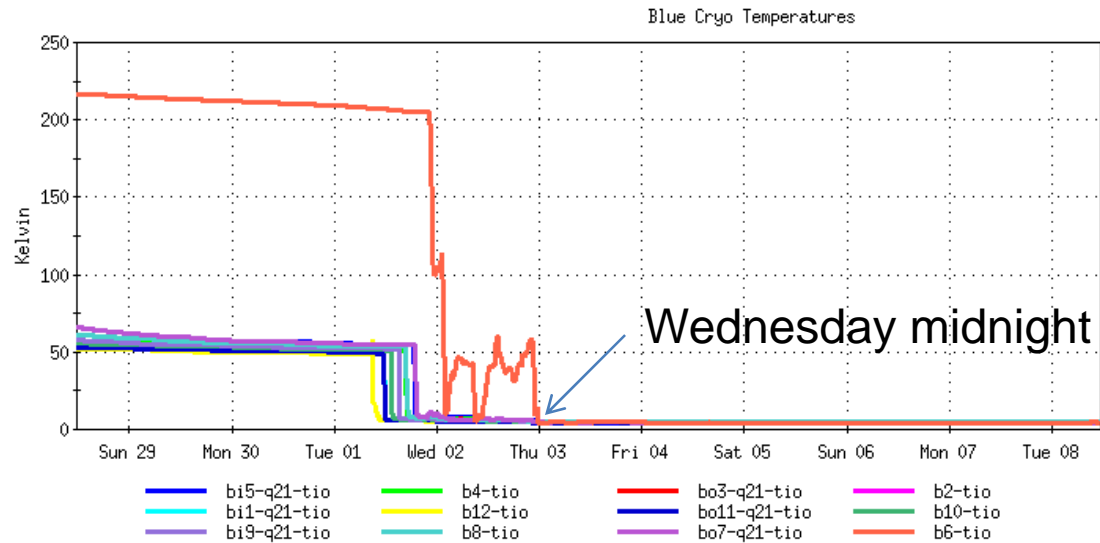
Cryogenic Blue & Yellow Rings (14 days)

[Ring Summary \(1 day\)](#)

[Sector Plots \(1 day\)](#)

[Sector Plots \(14 days\)](#)




Window Markers Analysis

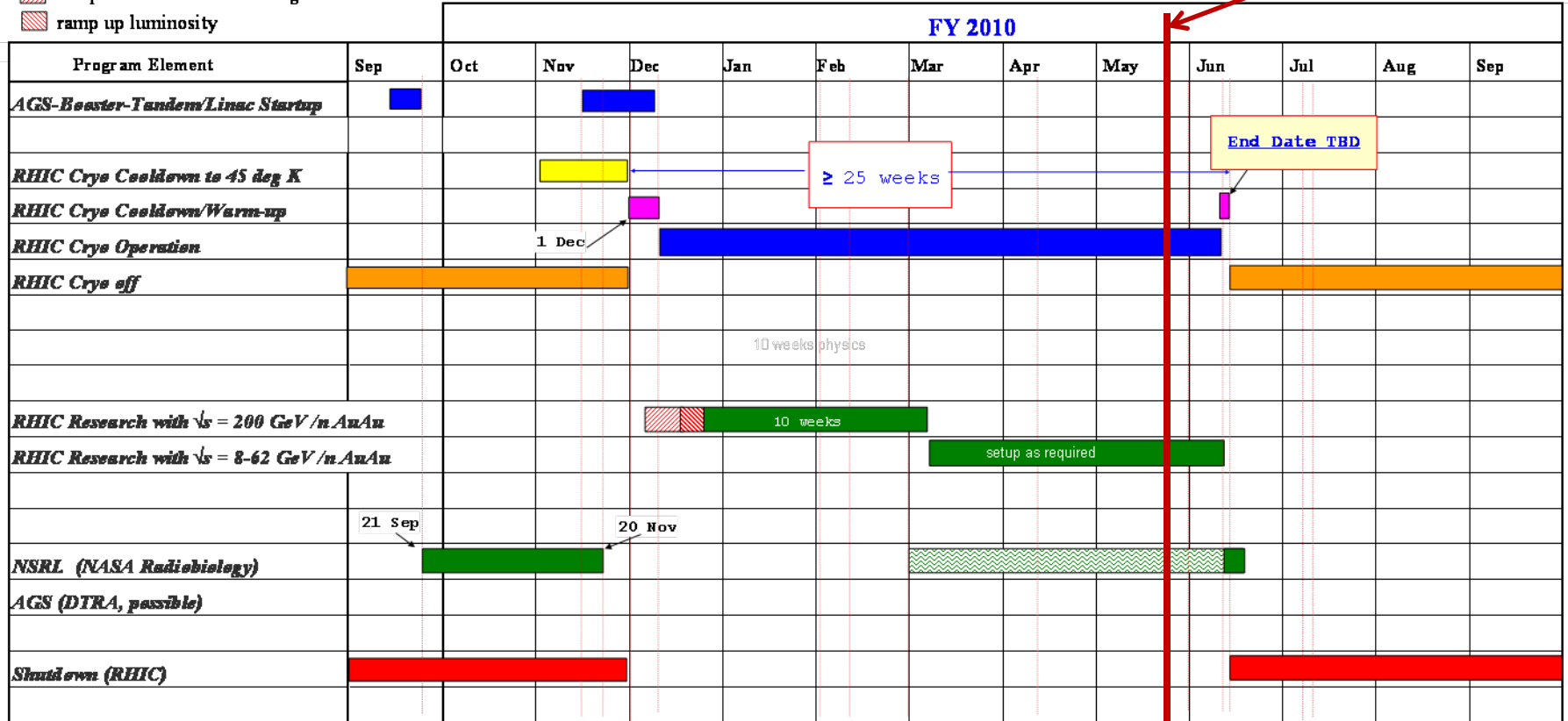


C-A Operations-FY10

Planned (budget permitting)

25 Cryo Weeks

-  concurrent with RHIC
-  setup with beams in both rings
-  ramp up luminosity



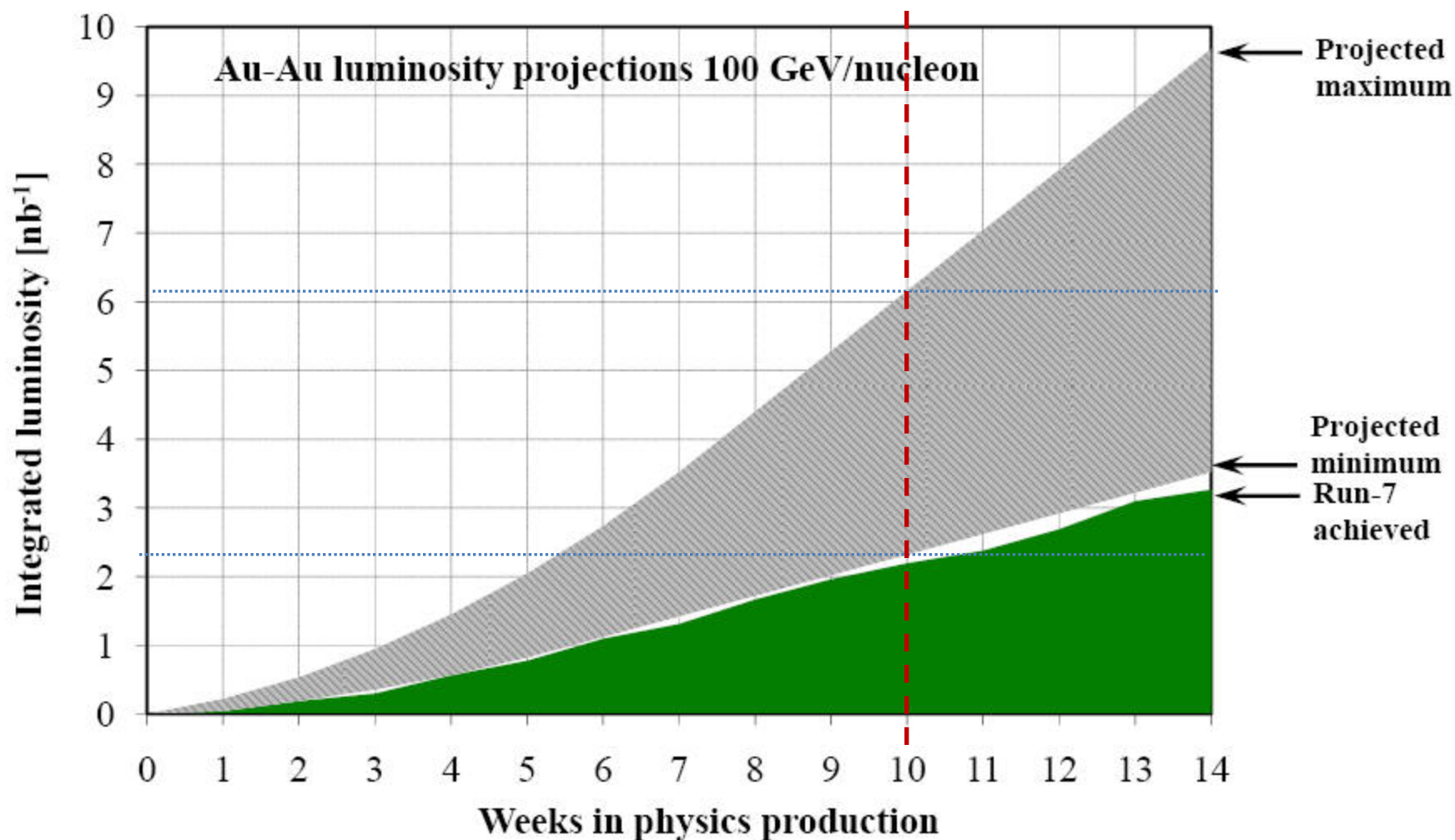


Figure 2: Projected minimum and maximum integrated luminosities for gold-gold collisions at 100 GeV beam energy, assuming linear weekly luminosity ramp-up in 6 weeks for the minimum and 8 weeks for the maximum.