

RHIC Machine/Detector Planning Meeting

13 Feb 07

Agenda

- **Scheduling Physicist Issues (Gardner)**
- **Machine Issues - (Drees)**
- **Experiment Issues**
 - **PHENIX (Leitch)**
 - **STAR (Christie)**
- **RHIC Beam Experiments - (Pilat)**
- **RCF Issues - (Throwe)**

RHIC Machine/Detector Planning Meeting

13 Feb 07

Answer to Questions from the 6 Feb meeting

(1) Experiments – What are your luminosity goals for the AuAu run, Delivered and Sampled

– PHENIX goals for 100 x 100 GeV/n AuAu

- **Delivered Luminosity = 2700 μb^{-1}**
- **Sampled Luminosity = 1100 μb^{-1}**
- **68% live time, 60% vertex cut = 40.5% efficient**
- **However, Run5 efficiency factor was 25% (4400 μb^{-1} delivered)**

– STAR goals for 100 x 100 GeV/n AuAu

- **Delivered Luminosity = 1800 μb^{-1}**
- **Sampled Luminosity = 300 μb^{-1} with 60 M usable min-bias events**
- **~50% live time**

RHIC Machine/Detector Planning Meeting

13 Feb 07

Answer to Questions from the 6 Feb meeting

(2) Experiments and Machine - If the AuAu run goes well and luminosity goals are met with a week or two left to go, what should we do?

– **PHENIX**

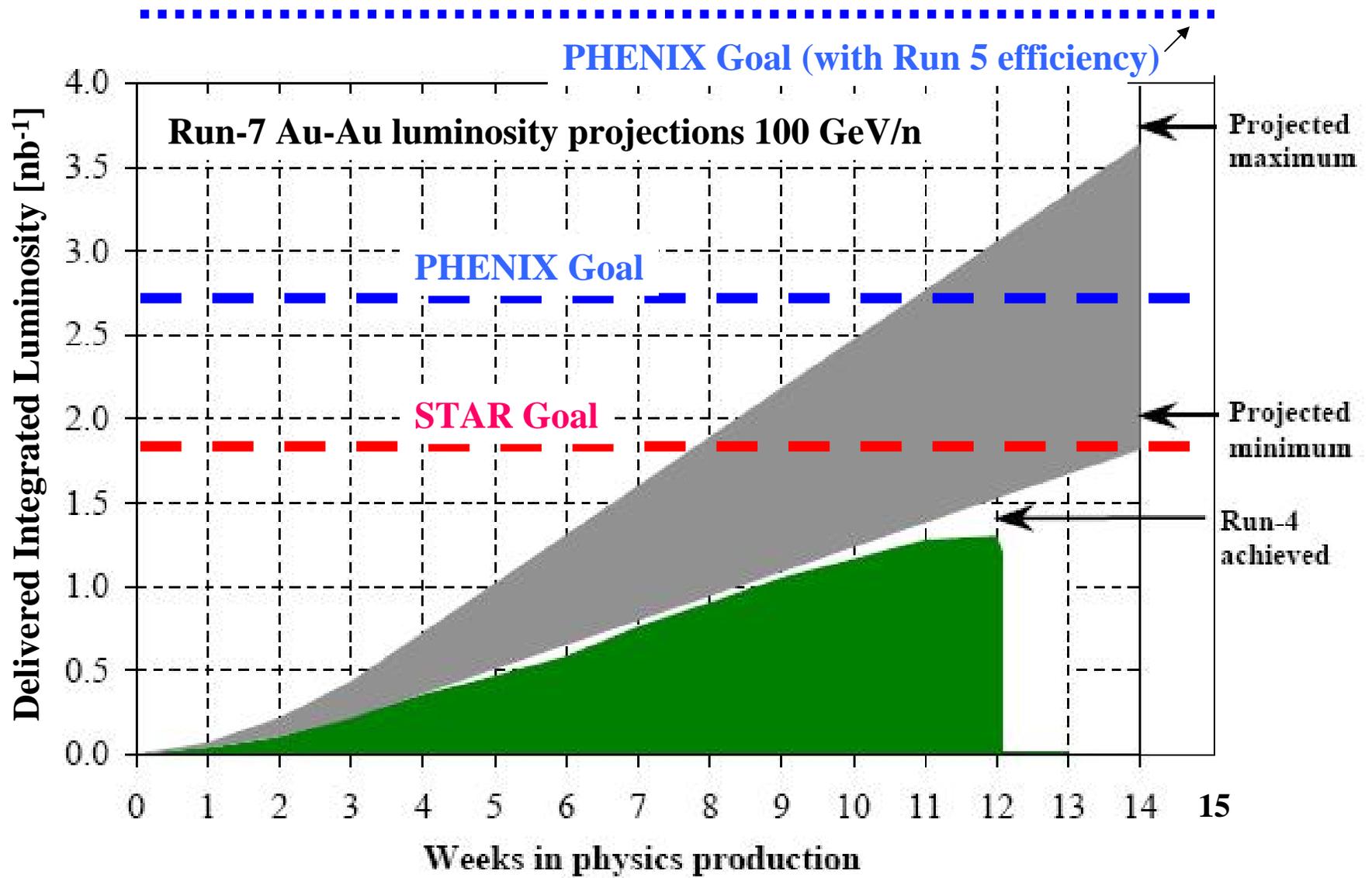
- Probably need 15 weeks to achieve AuAu goals – highest priority
- pp development if well motivated/justified
 - Studies to maximize Run8 figure of merit
 - 500 GeV development

– **STAR**

- Low energy AuAu development, collider issues, triggering...

– **Machine**

- 1-2 days low energy AuAu development at 0.5 injection energy
- pp development –
 - 1st priority new RHIC working point (needs ~2 weeks)
 - 2nd priority 500 GeV development



RHIC Machine/Detector Planning Meeting

13 Feb 07

Next Meeting

Wednesday, February 21

C-A Operations-FY07

1 Feb 07

Draft Plan (awaiting final budget)

-  concurrent with RHIC
-  setup
-  ramp up luminosity

FY 2006

Program Element	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
AGS-Booster-Tandem/Linac Startup													
							← 20 weeks →						
RHIC Cryo Cooldown/Warm-up													
											↖ 28 June		
RHIC Cryo Operation													
RHIC Cryo off													
							← ~15 weeks →						
RHIC Research with $\sqrt{s} = 200$ GeV/n Au-Au													
RHIC Other (TBD)													
NSRL (NASA Radiobiology)													
Shutdown (RHIC)													

schedule TBD

As of 8 Feb

BNL Energy Use FY 2006-7

(C-AD Bldg 911 power is in AGS-Exp/Mach)

- RHC Cryo
- AGS-Mach
- Tandem
- AGS-Exp
- Site Base
- \$/MWhr
- RHC other
- CAD Bldg less SMD
- Booster
- NSRL
- Peak-Av

