

RHIC Machine/Detector Planning Meeting

9 Oct 07

Agenda

- **Experiment Goals for Run 8 and Issues**
 - **PHENIX (Jacak)**
 - **STAR (Hallman)**
 - **Monopole (Dzhordzhadze)**

- **Scheduling Physicist Issues (Sivertz)**

- **Machine Issues - (Gardner)**

- **RHIC Beam Experiments - (Pilat)**

- **RCF Issues - (Throwe)**

Planning Meeting Web Site: http://www.c-ad.bnl.gov/esfd/RMEM_08/rhic_planning.htm¹

C-A Operations-FY08

1 Oct 07

Planned, subject to change

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

FY 2008

Program Element	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
AGS-Booster-Tandem/Linac Startup														
				← 30.3 weeks →										
RHIC Cryo Cooldown/Warm-up														
RHIC Cryo Operation														
RHIC Cryo off														
RHIC Research with $\sqrt{s} = 200$ GeV/n d-Au				10 weeks										
RHIC Research with $\sqrt{s} = 200$ GeV pp							12 weeks							
RHIC Other (TBD)							switch date to be determined							
								schedule to be determined						
NSRL (NASA Radiobiology)														
Shutdown (RHIC)														

Fischer et.al. Possible 30 week run schedule

Cool-down from 80 K to 4 K	1 ½ week
Set-up mode 1 (d-Au)	1 ½ weeks
Ramp-up mode 1	1 week
Data taking mode 1 with further ramp-up	11 weeks
Set-up mode 2 (p↑-p↑)	2 ½ weeks
Ramp-up mode 2	1 week
Data taking mode 2 with further ramp-up	11 weeks
Warm-up	½ week

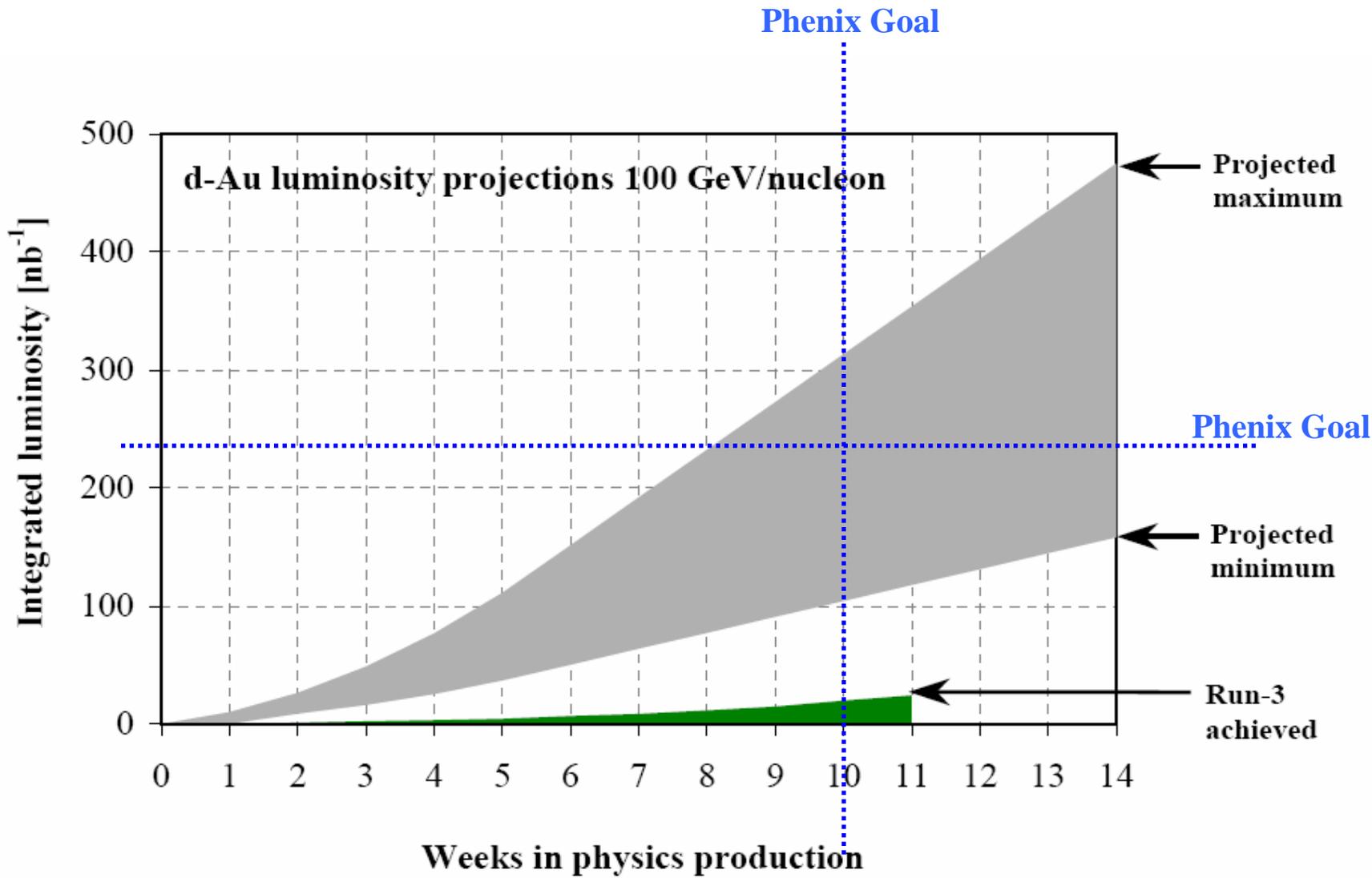


Figure 2: Projected minimum and maximum integrated luminosities for deuteron-gold collisions at 100 GeV/nucleon beam energy, assuming linear weekly luminosity ramp-up in 6 weeks.

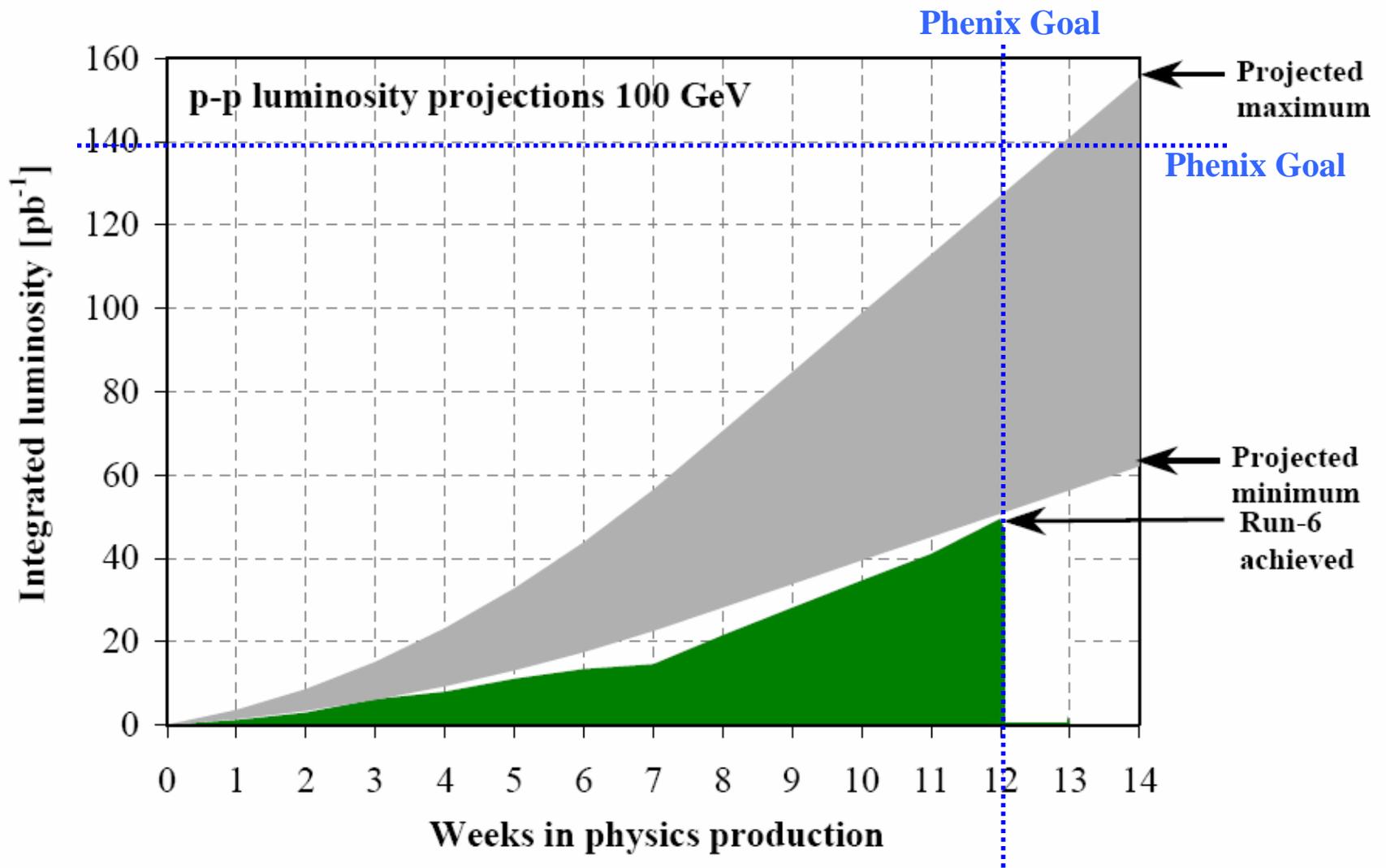


Figure 3: Projected minimum and maximum integrated luminosities for polarized proton collisions at 100 GeV beam energy, assuming linear weekly luminosity ramp-up in 8 weeks. An average store polarization of 65% is expected.

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13 Feb 07

Next Meeting

Tuesday, October 23

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