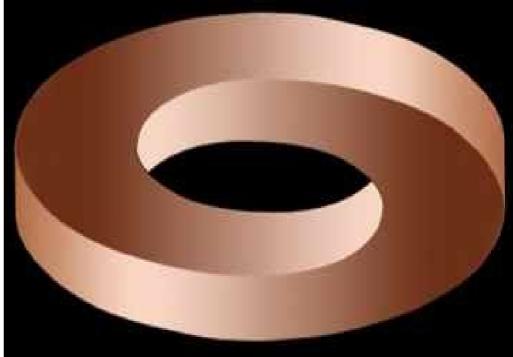


Run-5 Update



Machine-Experiments
Planning Meeting
March 23th, 2005





End of Cu-LE run

31GeV

0.30

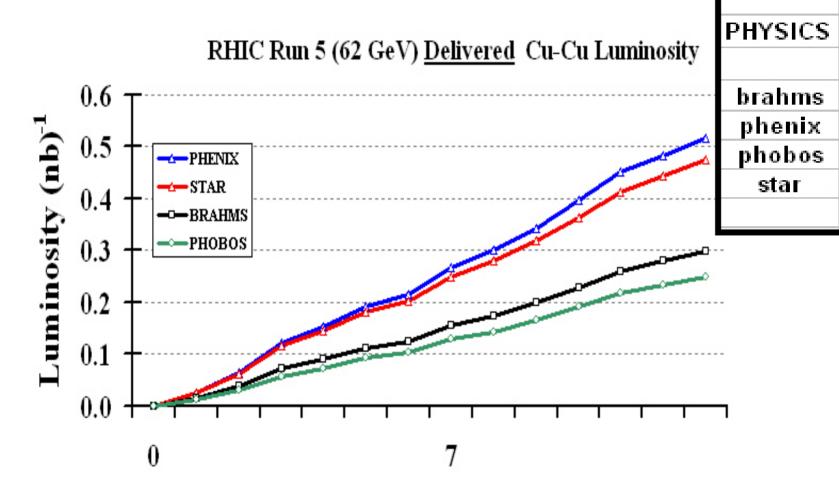
0.52

0.25

0.47

<Lint>

[nb^ -1]



Days into the run (to 03/22/05)



Week 2 - summary

collisions @injection (Tue Mar 15)

Set-up work, Tue Mar 15 (OK, vertex, backgrounds, lifetime...)

Set-up + run, Tue Mar 22 - running

Phobos zero field & polarity change (Thu Mar 17)

Vernier scans → Cu-Cu X-section @31.2 GeV

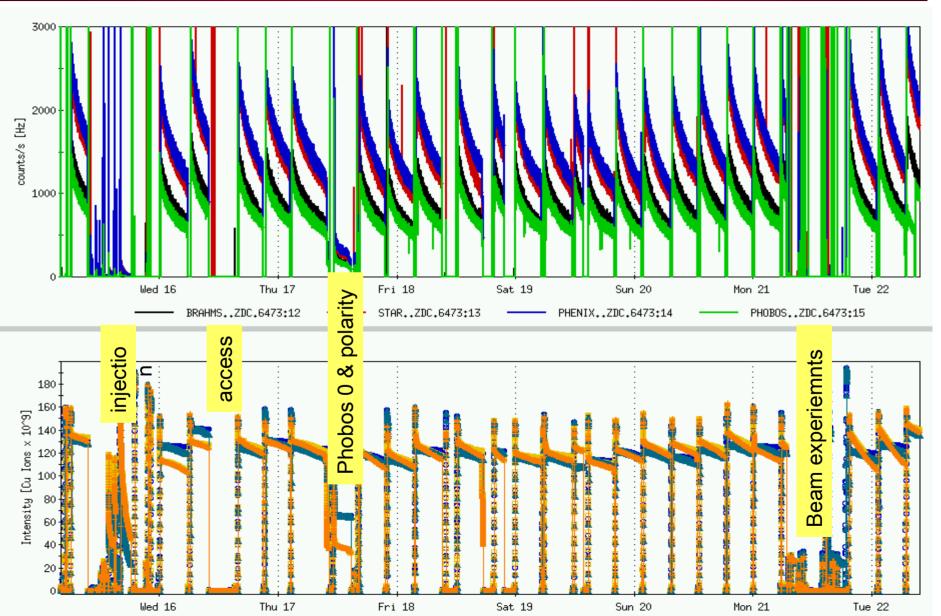
2.3 barn (redone today, Angelika will re-check x-section)

Overall, low-energy run:

- Low(ish) 80-85% transmission, 3.5-3.5 e9 bunch intensity
- Excellent uptime, lumi lifetime and store-2-store time
- Effect of ramp losses on electronics, PS supplies, crygenics to be factored in

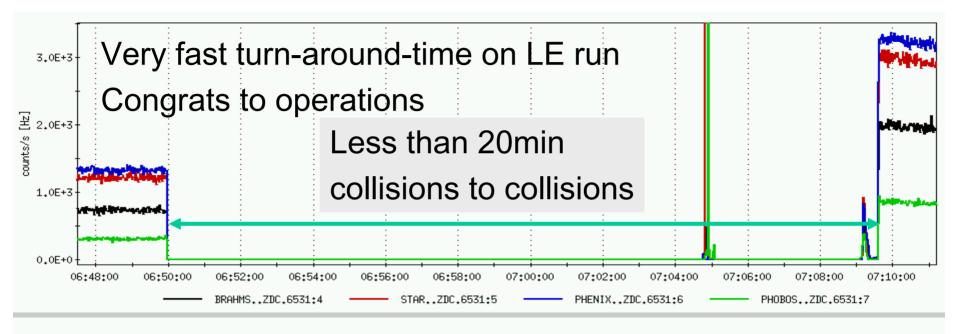


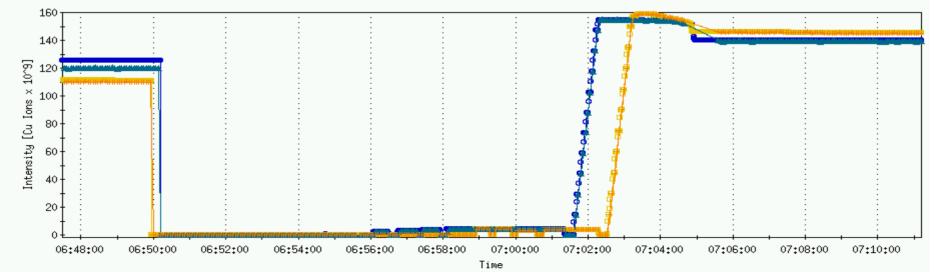
LE week 2 - stores





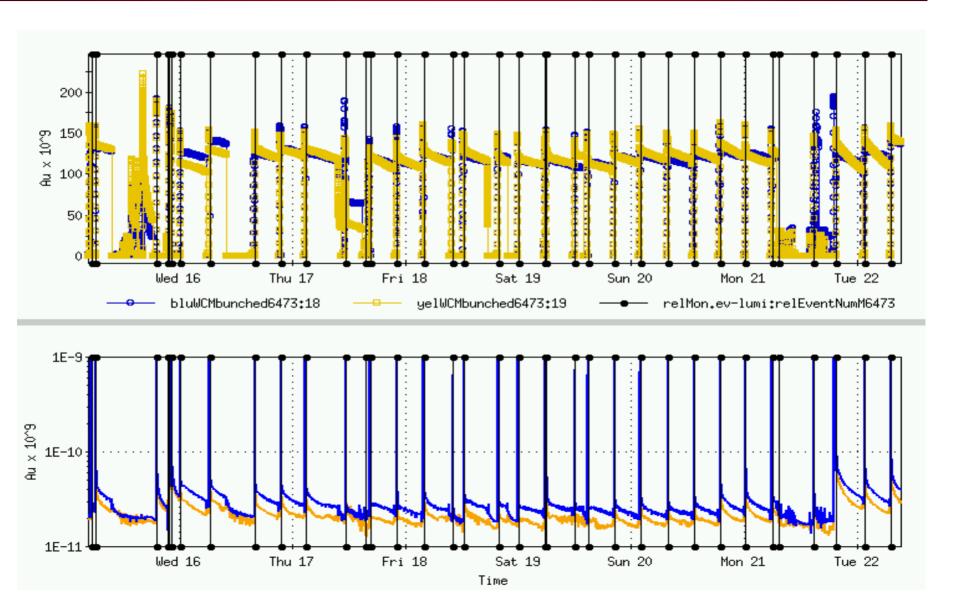
Store-to-store time







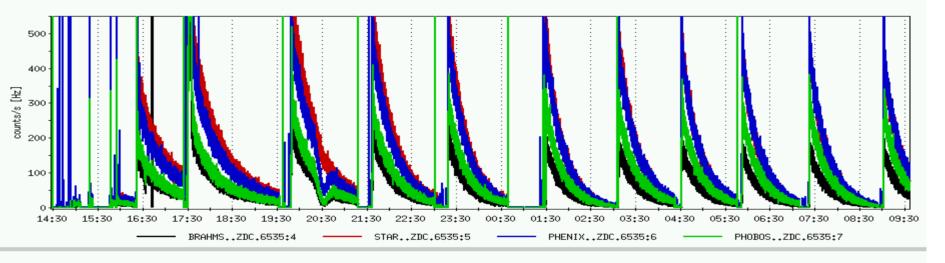
LE week 2 - Phobos

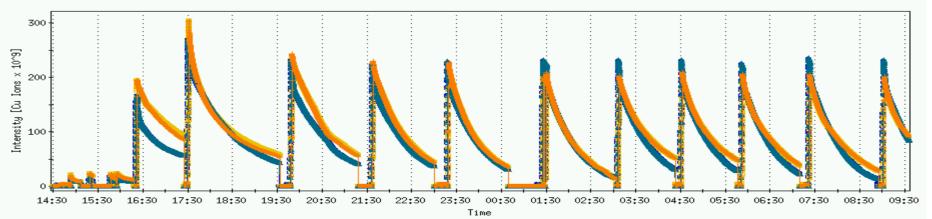




Injection run

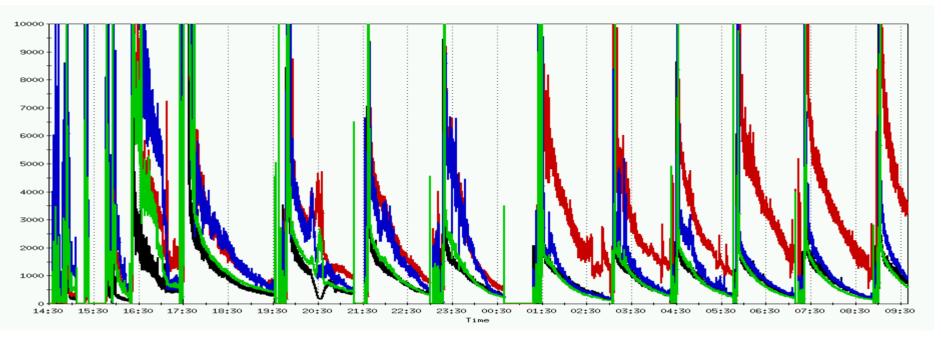
- □ Lumi lifetime ~1/2h → store length ~1:15min
- □ 55 x 4.0e⁹ \rightarrow initial rates ~500Hz
- □ Vertex OK now, backgrounds (next slide)

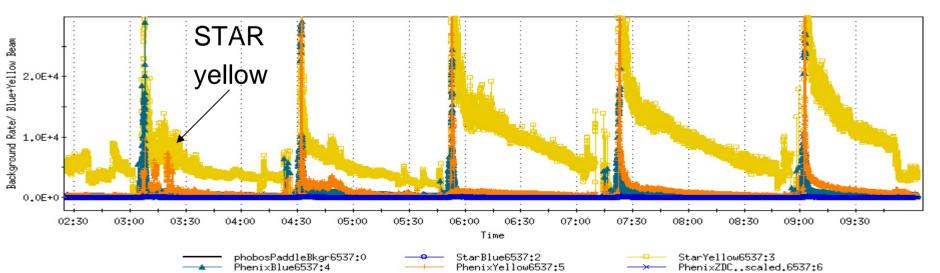






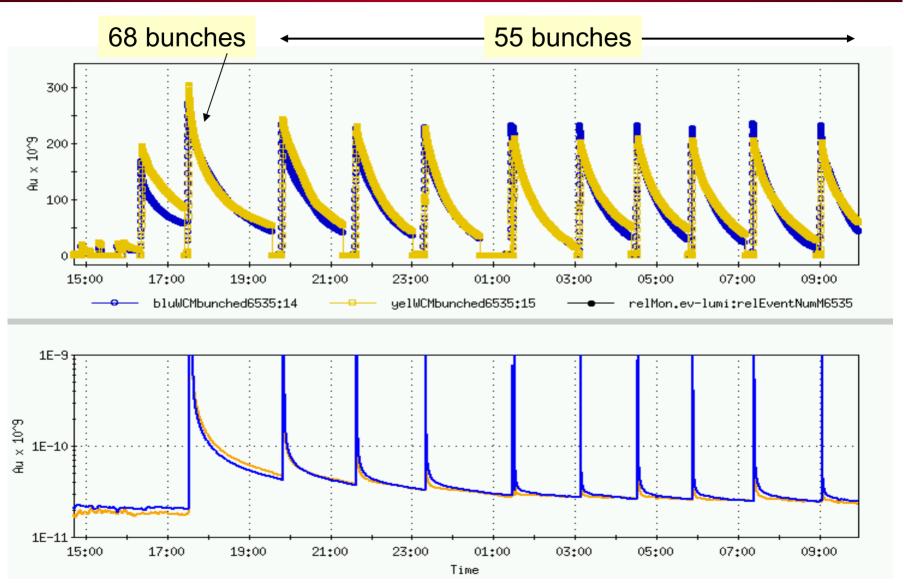
Injection run - backgrounds







Injection run – Phobos





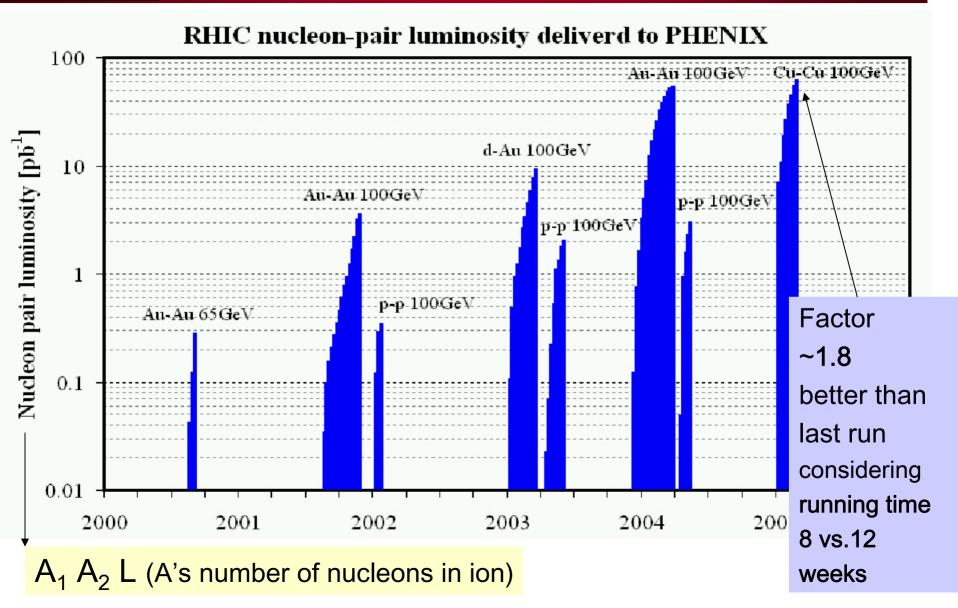
Run-5 integrated lumi (nb-1)

experiment	HE Run-5	HE Run-4	LE Run-5	LE Run-4
Phenix	15.16	1.37	0.50	0.022
Star	14.99	1.27	0.46	0.021
Brahms	6.15	0.56	0.29	0.012
Phobos	5.67	0.54	0.24	0.012

Total experiments events to be tabulated



(preliminary) run5 overview





RHIC Retreat 2005

- □ Runs analysis (Cu, PP)
- □ Optimization machine-experiments output (projections, "tomatoes", rates vs. uptime, etc...)
- □ Plans for shutdown, next run

→ RHIC Retreat, June 15-17, 2005

Following e-RHIC MAC June 13-14