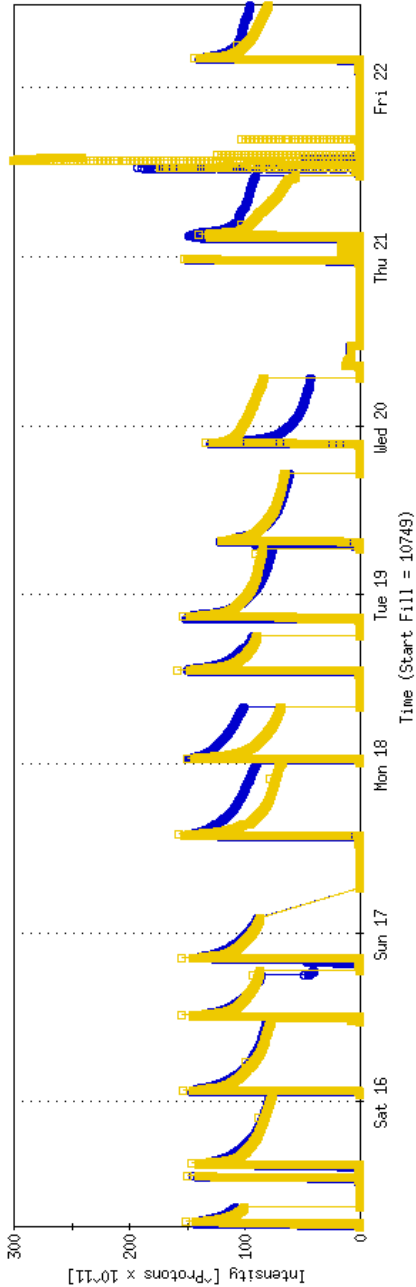
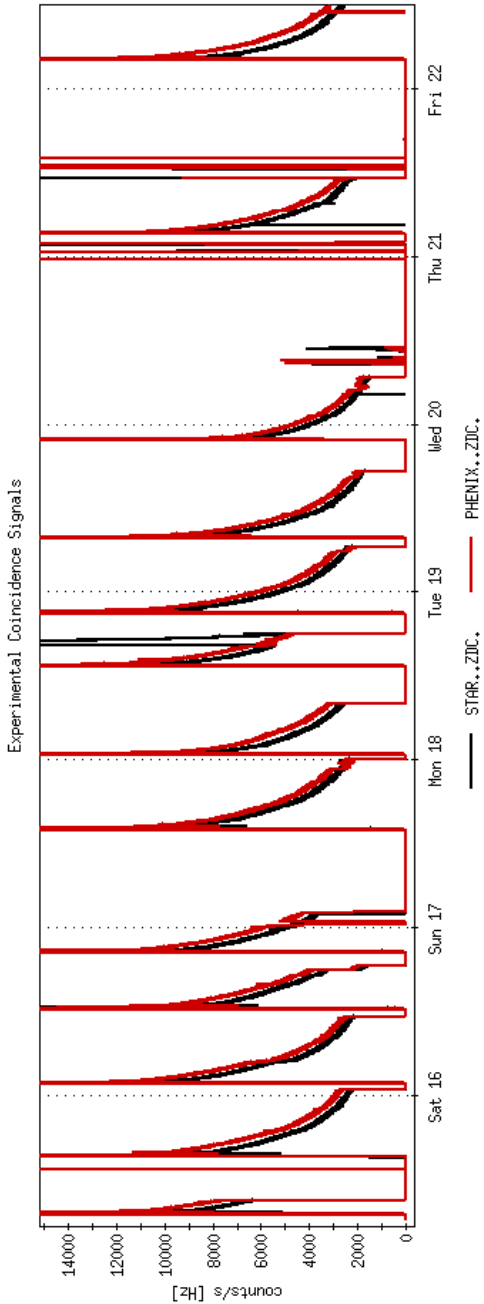


100 GeV Polarized Proton Run

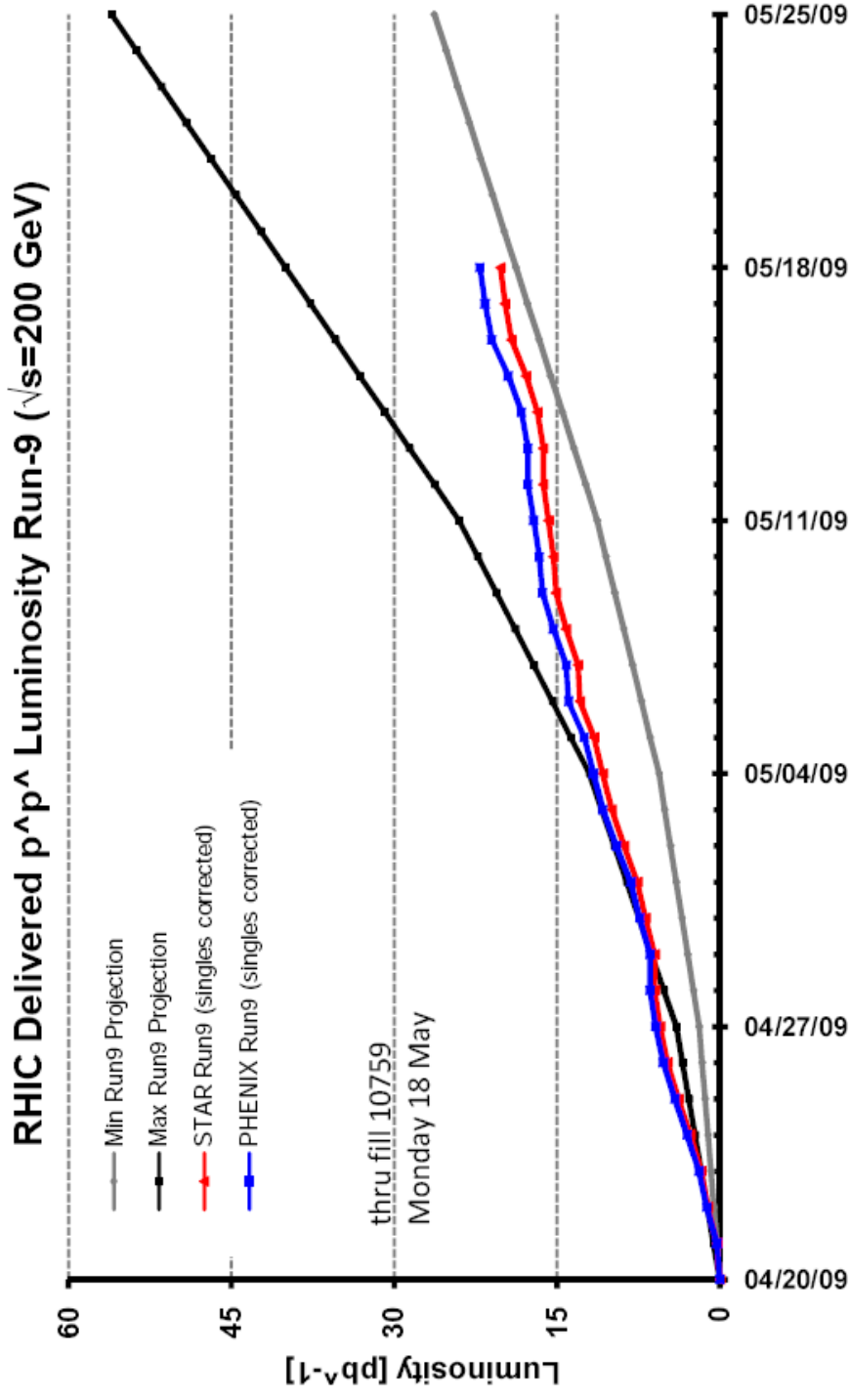
http://www.cadops.bnl.gov/AP/Spin2009_100GeV/

May 22, 2009

Present status

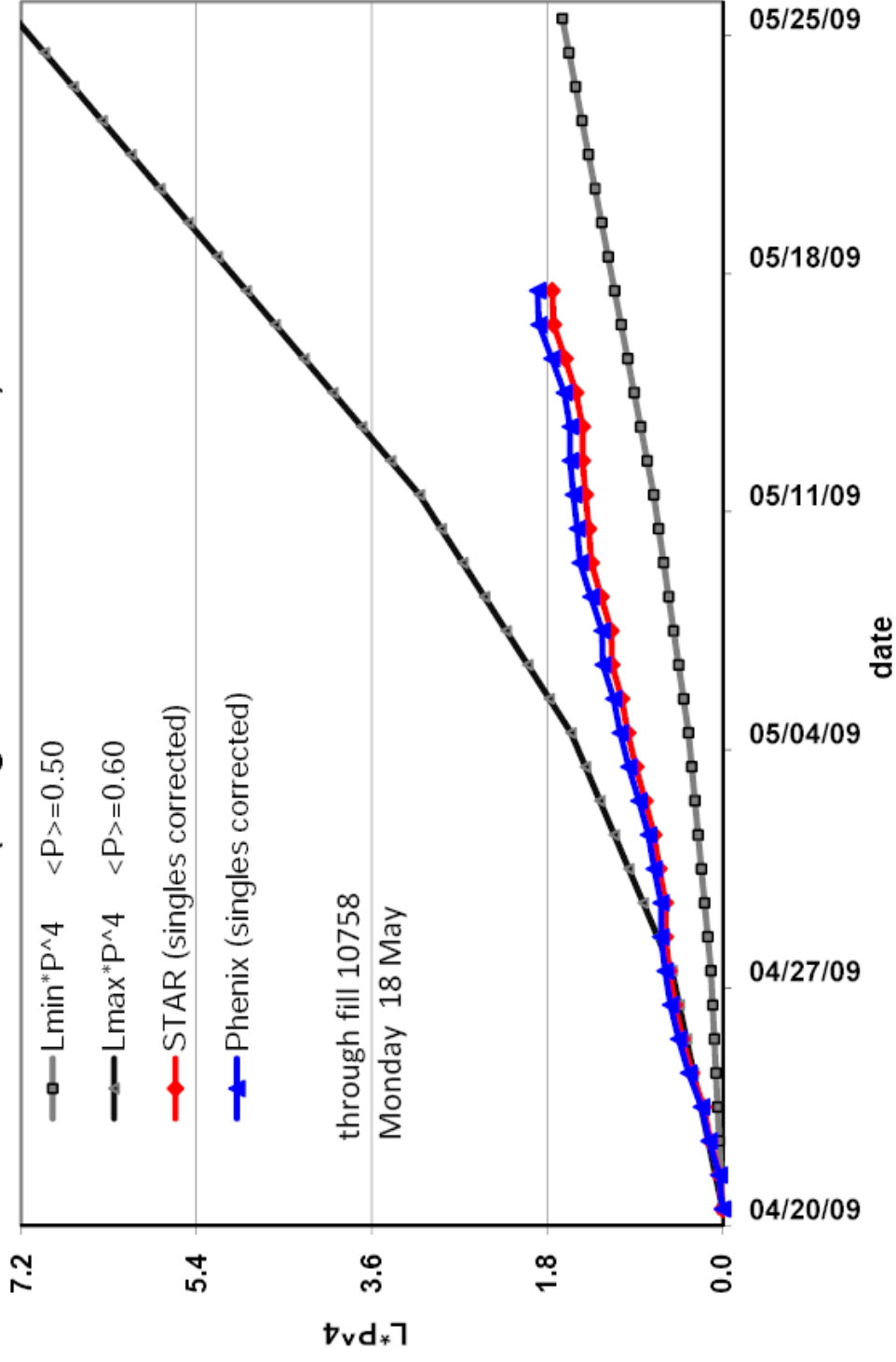


- Reasonably good uptime
- Power dip on Sunday, causing 12 h downtime
- APEX on Wednesday, 7 AM – 7 PM
- Various problems to get back to physics; first store at 03:40
- Vacuum scrubbing on Thursday, hampered by smoke detector alarms at Yellow abort kicker. Most likely radiation induced.
- Booster transformer failure on Thursday, 12 h downtime (only!!!)

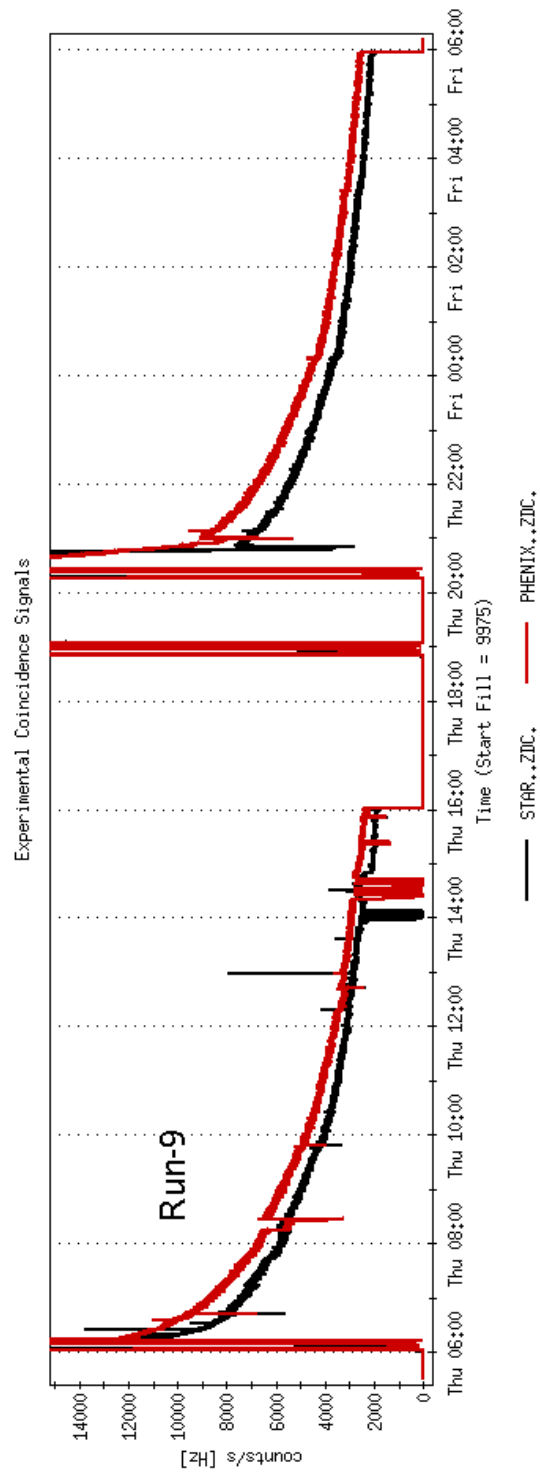
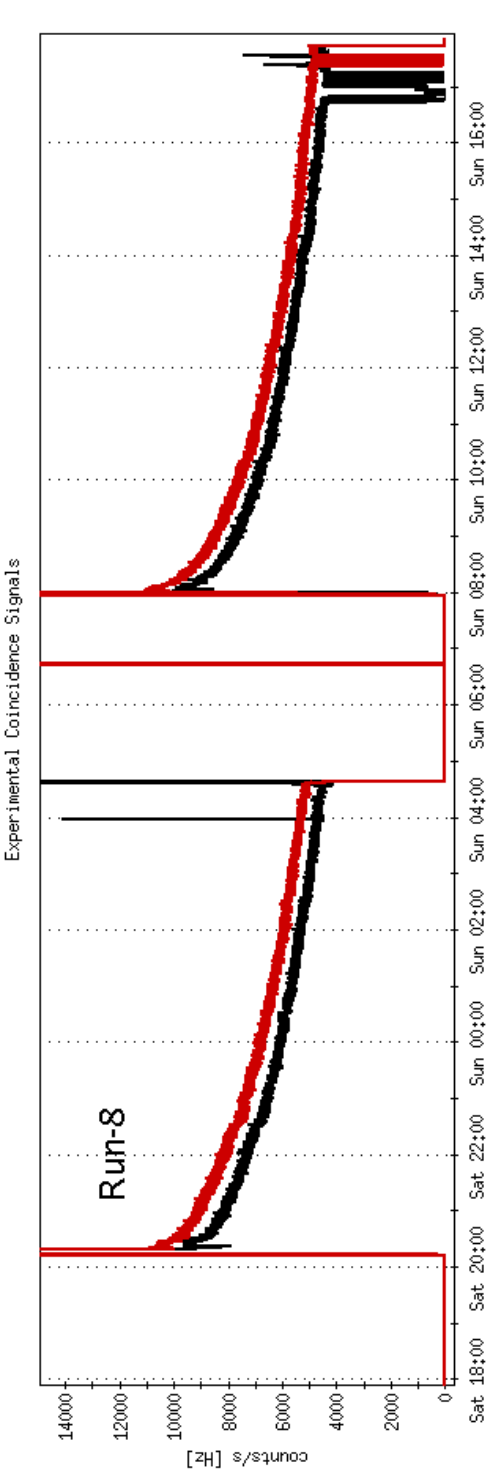


Even with good uptime during last weekend, the slope only matches the minimum projection.

**Run9 ($\sqrt{s}=200$ GeV)-- STAR / PHENIX Figure of Merit
(Longitudinal Polarization)**



Same problem as with integrated luminosity.



Significantly shorter luminosity lifetime than in Run-8.

Plan for the week

- Physics running
- Investigate luminosity lifetime problem:
 1. Fewer bunches (done; helps ramp efficiency but not luminosity lifetime)
 2. No RF voltage ramping at store (done for one store, seems to help)
 3. Low intensity (1.0×10^{11})
 4. Relax nonlinear chromaticity correction
 5. Unsqueeze at store, to 75 or 80 cm
- Spin flipper commissioning