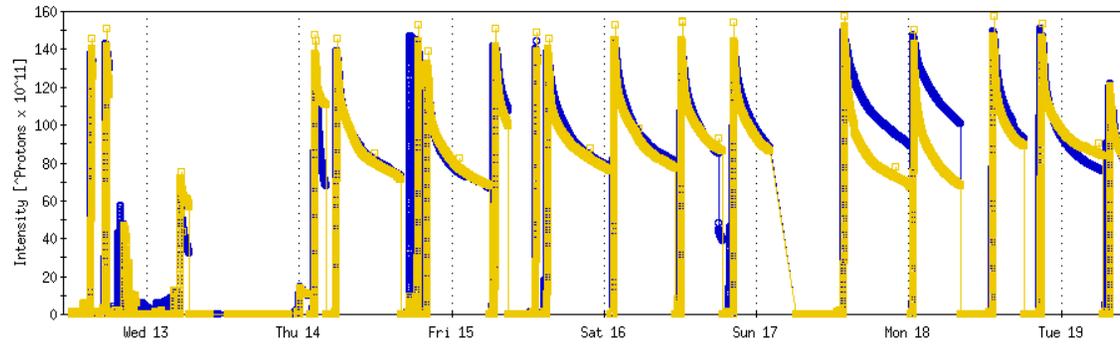
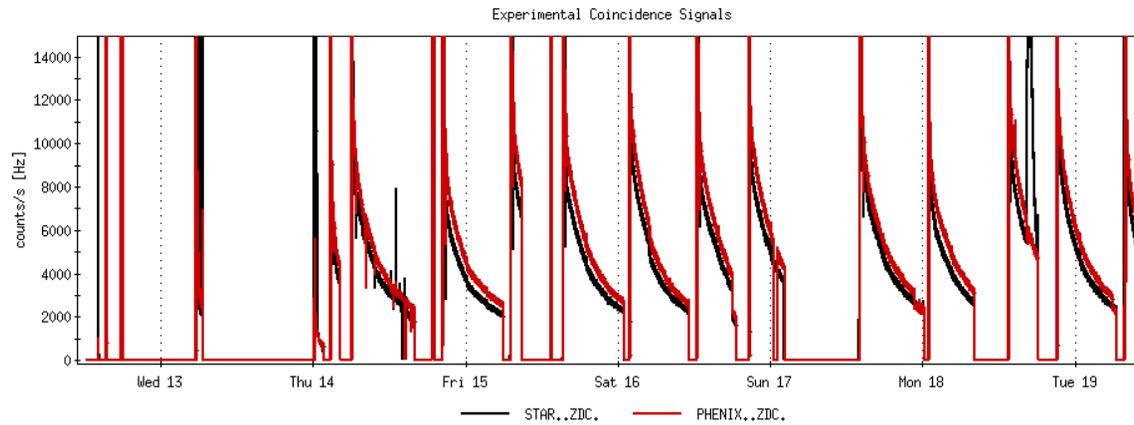
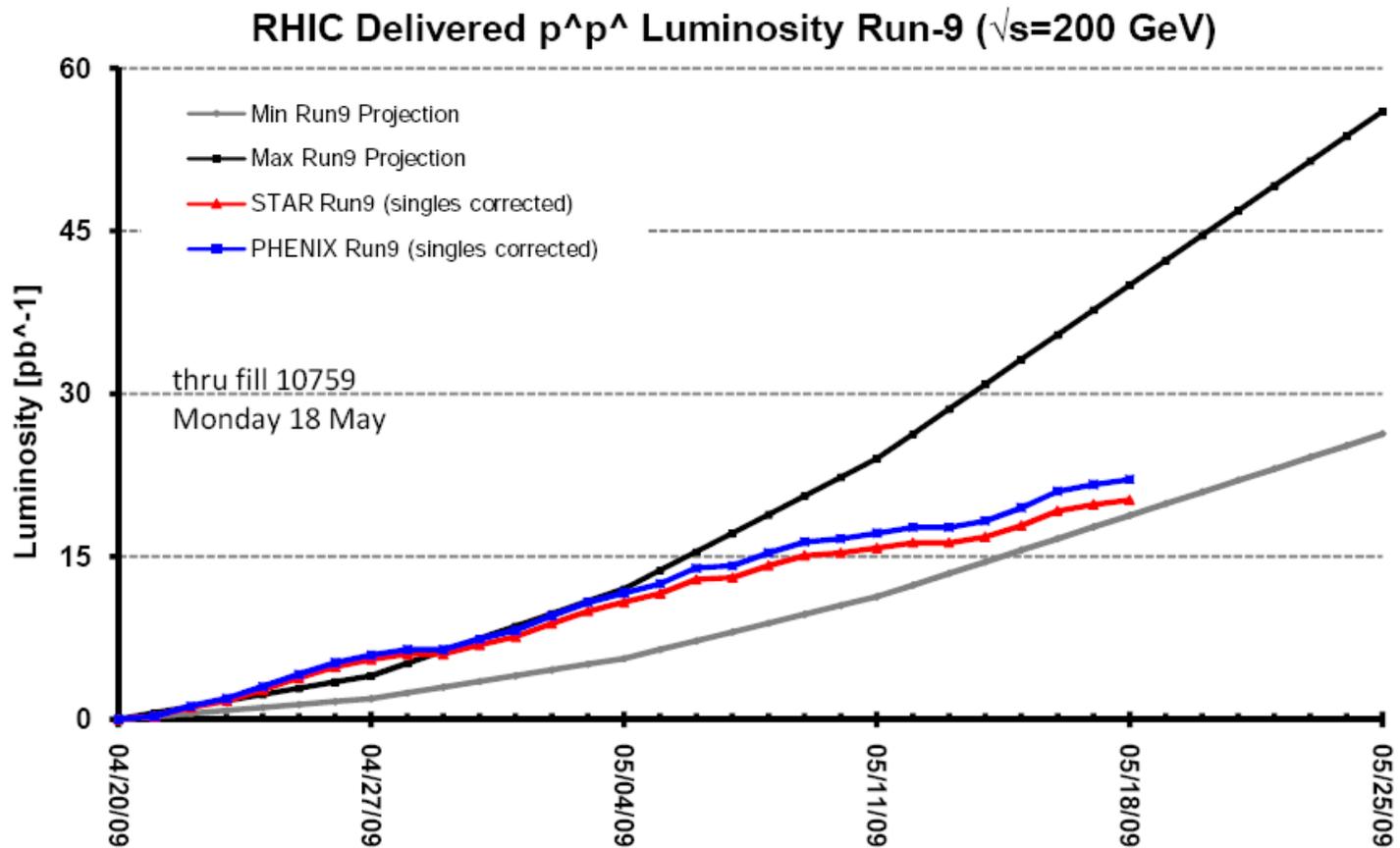


RHIC Status

May 19, 2009

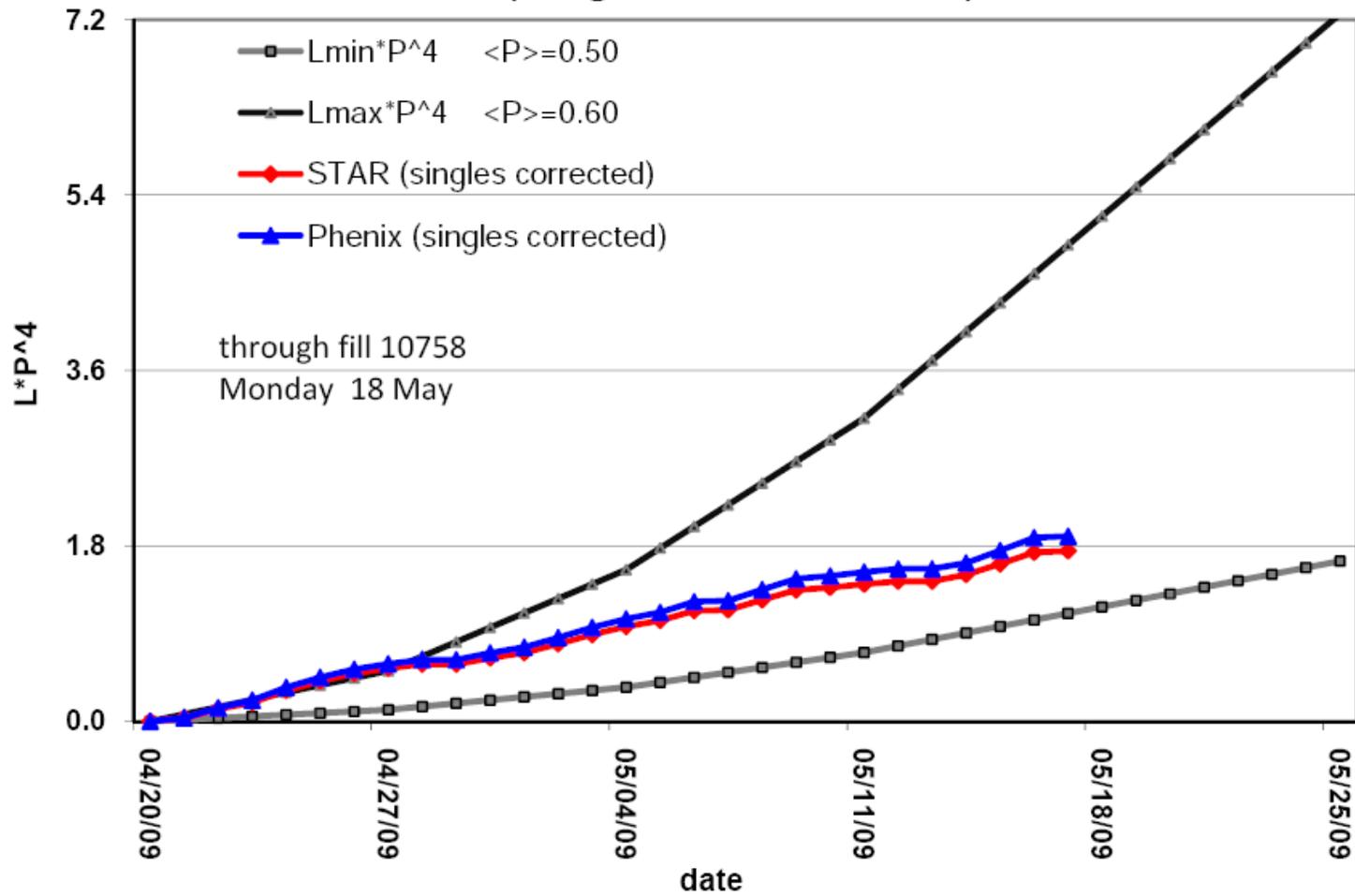


- APEX and Maintenance Day Tuesday/Wednesday
- Vacuum failure at IR 12 due to JET work; fortunately no long-term impact
- 12 h downtime on Sunday due to power dip
- Finally, good uptime, but...

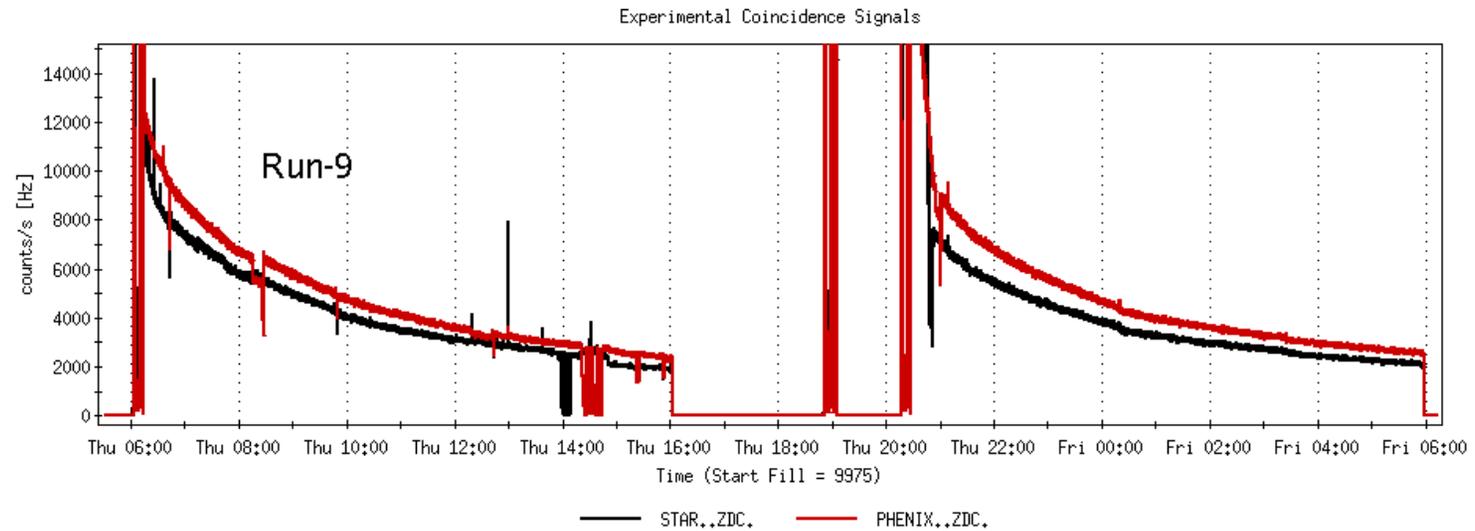
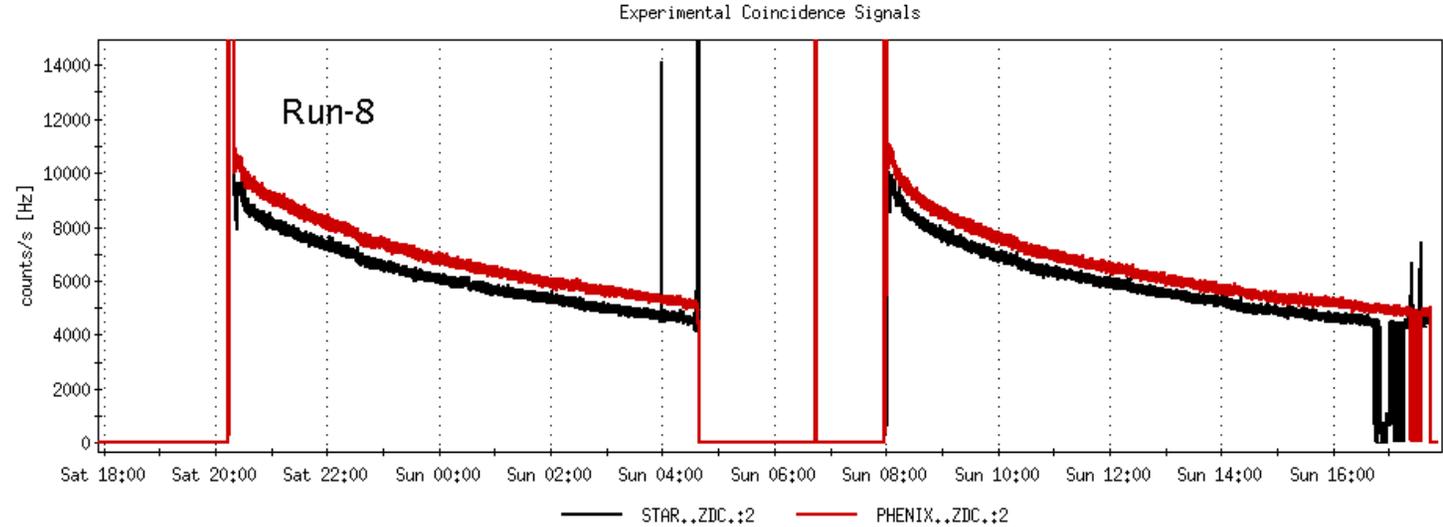


Even with good uptime during the weekend, the slope only matches the minimum projection.

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
- 12 h APEX Wednesday
- Vacuum scrubbing to allow for higher intensities at smaller emittances/ shorter bunches on Thursday
- Several ideas to investigate luminosity lifetime problem:
 1. fewer bunches (84x84)
 2. no RF voltage ramp at store
 3. low-intensity store ($1e11$ /bunch)