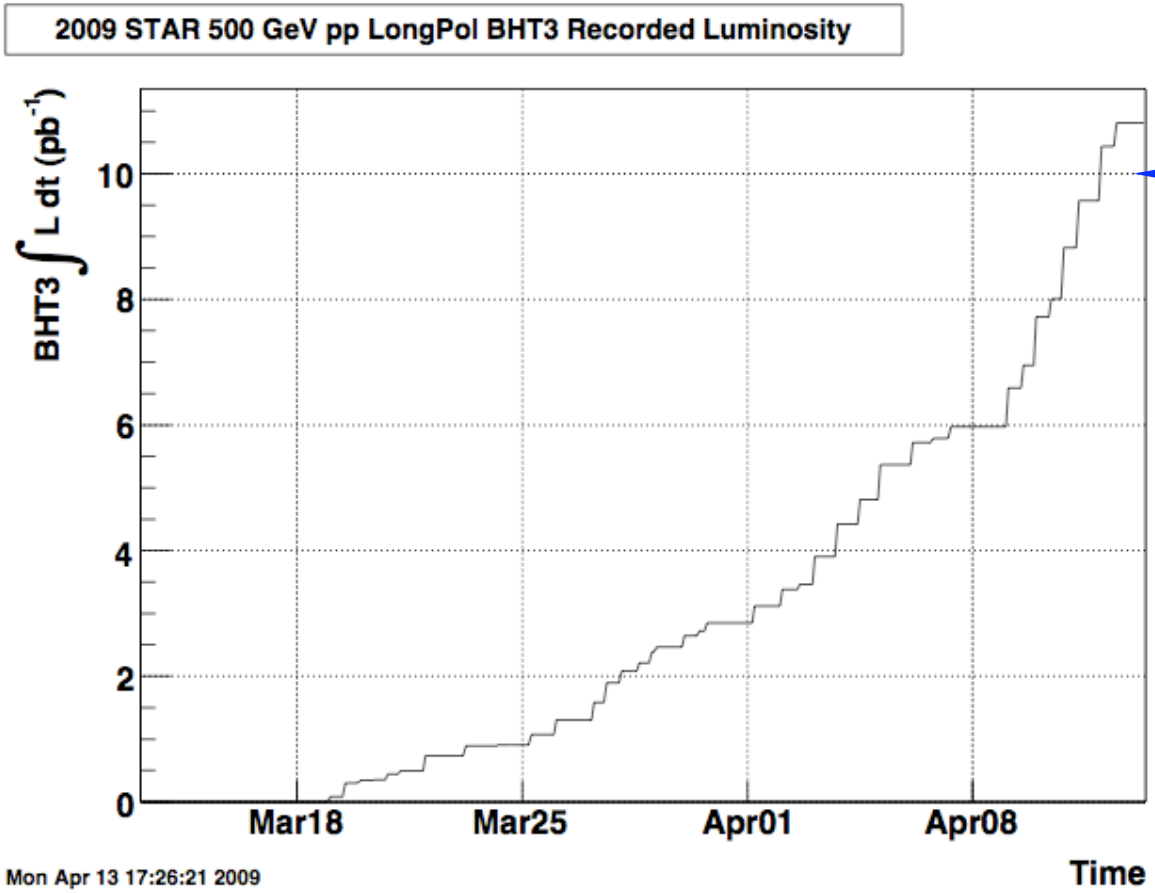
STAR Run 9 - Sampled Luminosity Achievement

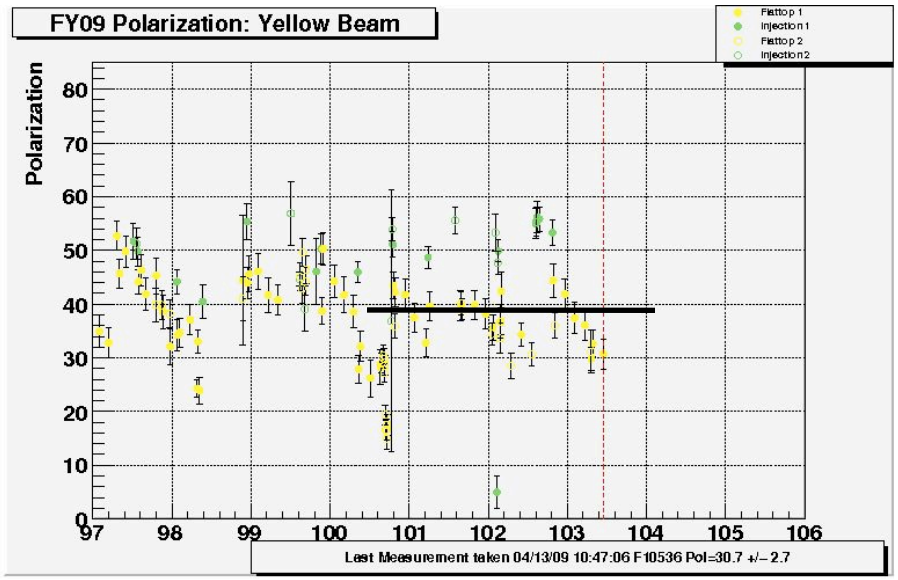


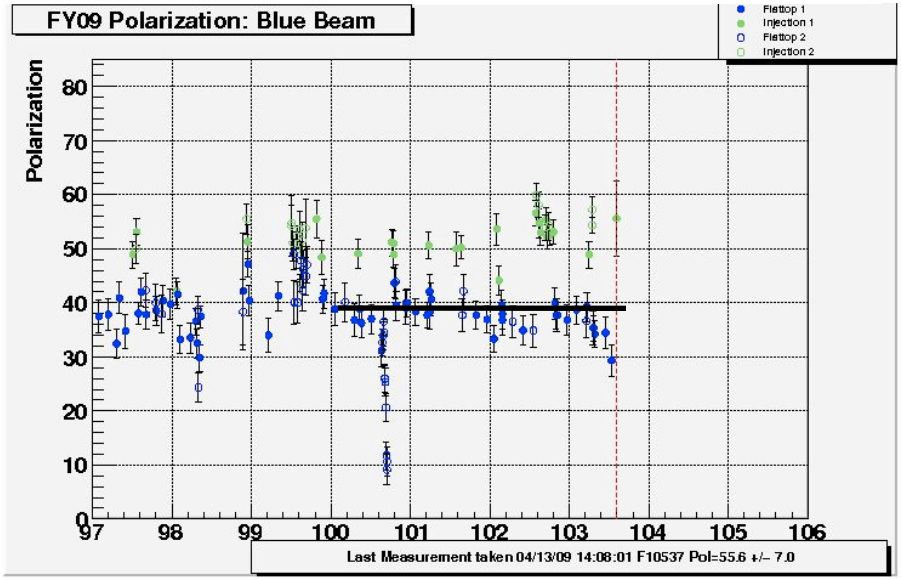
Luminosity goal met!

FOM goal (2.5pb^{-1}) not met due to low polarization performance!

- STAR ran smoothly in the last week.
- Total sampled luminosity ~ 10.7 pb^{-1}, goal achieved.

Polarization !





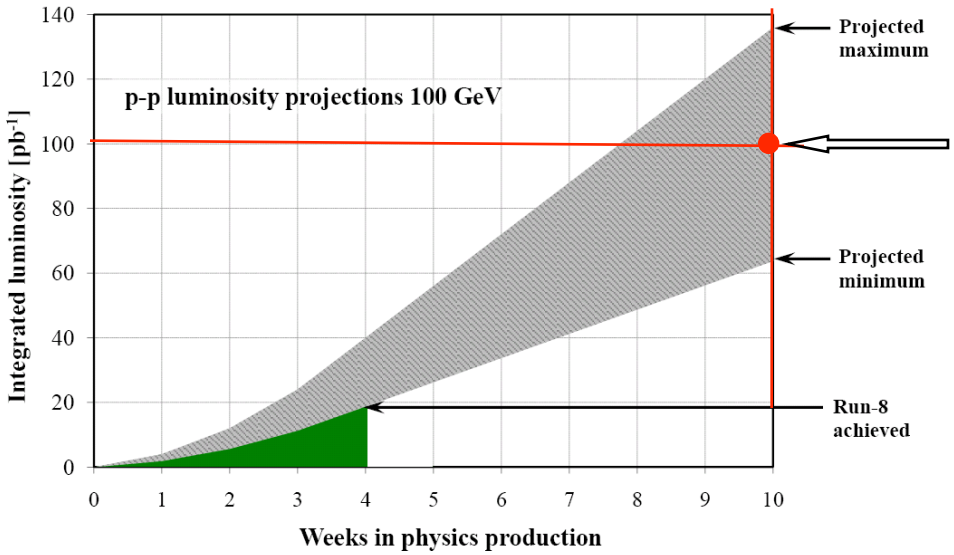
~ 50-55% at injection
~ 35-40% at store

- Spin rotator tuning
  - Trans. Component reduced to 10%
  - No significant lifetime issue of Y and B beam observed

- Need to understand the de -polarization at RHIC.

STAR Run 9 200 GeV

Longitudinal spin program Goal **FOM = P^4L ~ 6.5 pb^{-1}**



If P ~ **60%**,

$L_{delivered}$ **~ 100pb^{-1}** in 10 weeks

If P ~ **50%**, then need

$L_{recorded}$ ~ 100pb^{-1} or $L_{delivered}$ ~ 200 pb^{-1}