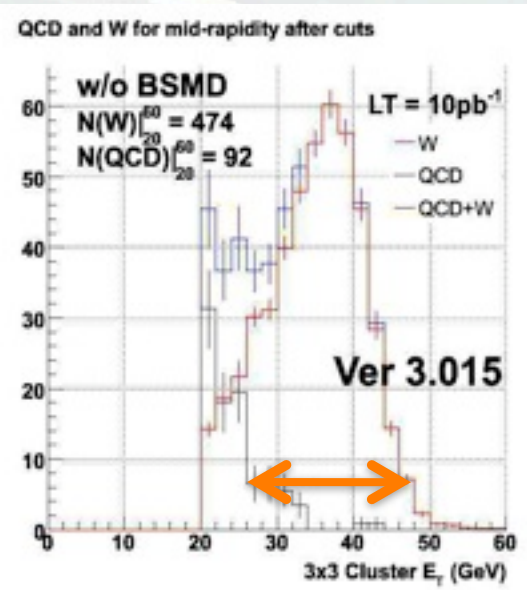
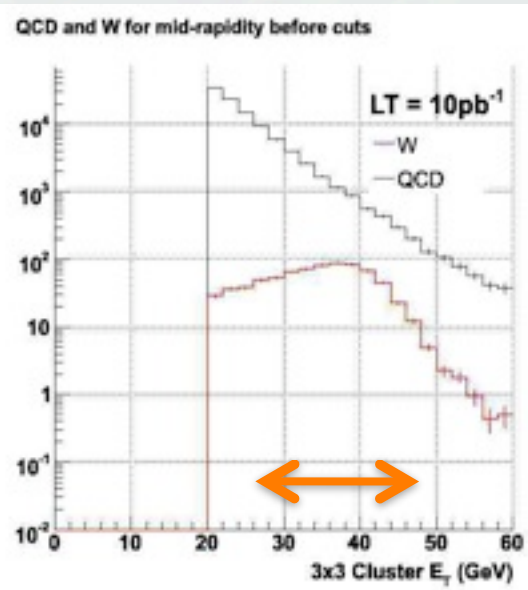
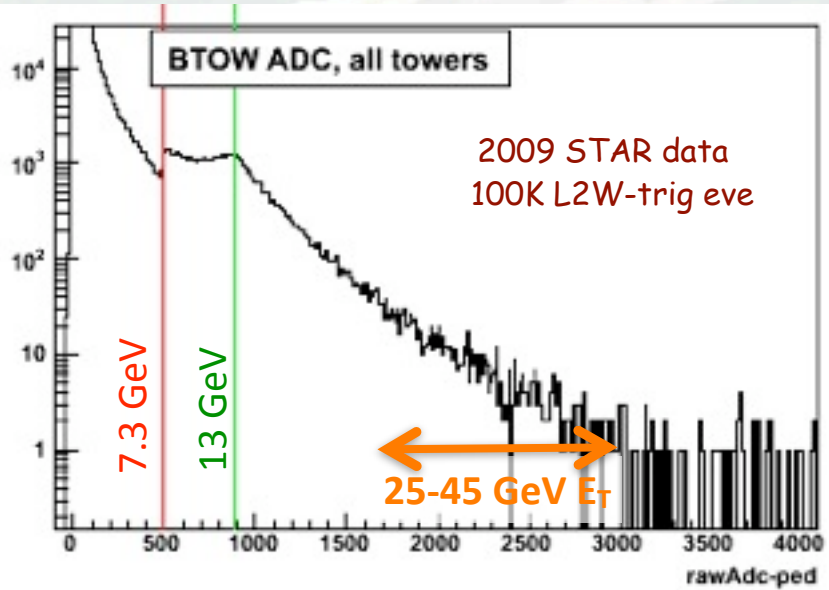




Run 9 - STAR status / concerns / issues

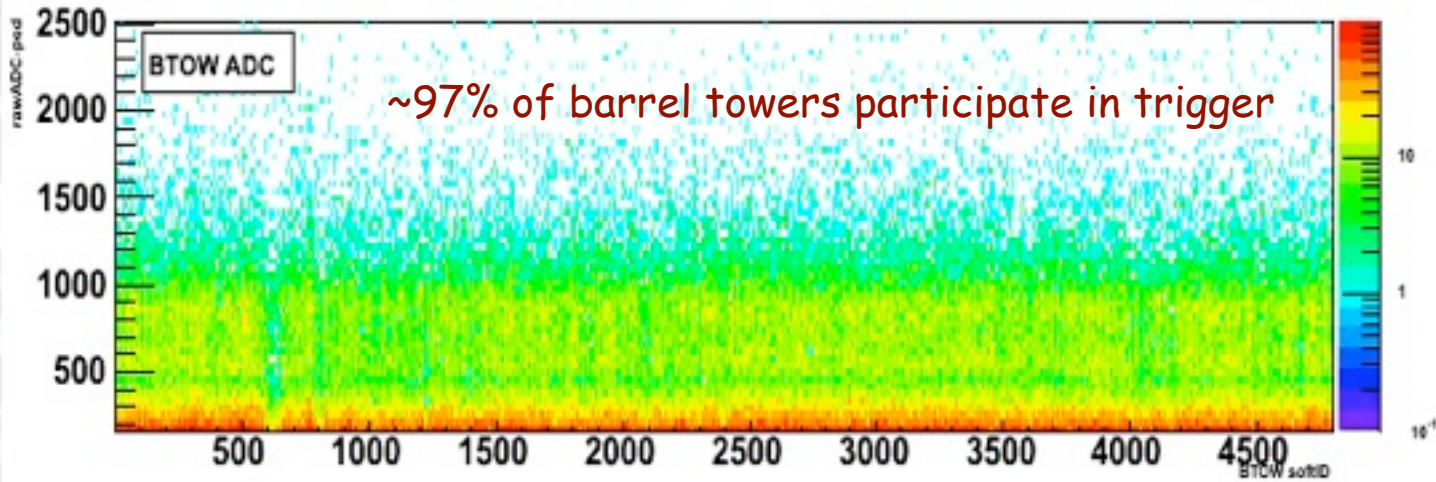
Run 9 500 GeV Status - W Trigger



W-trigger: HT > 7.3 GeV ET & L2:
 2x2 > 13 GeV, 2-3Hz
 Acquired since March 19
 (longitudinal pol. @STAR)

- ~36 hours of STAR DAQ up time w/ W-trigger
- ~375K W-trigger events

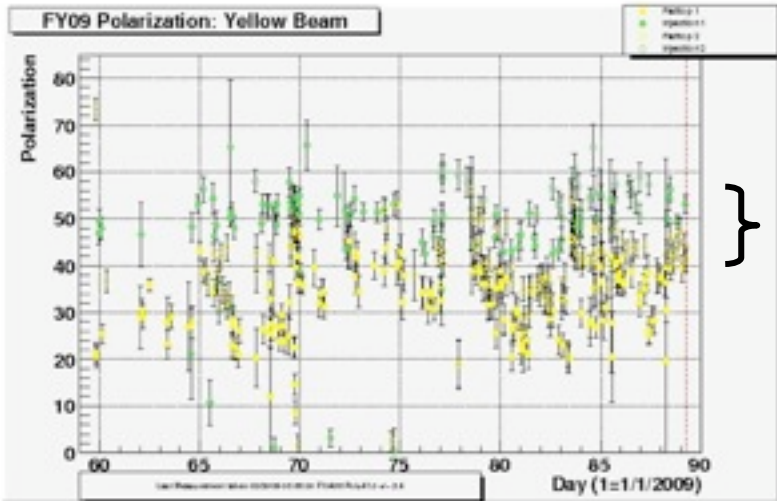
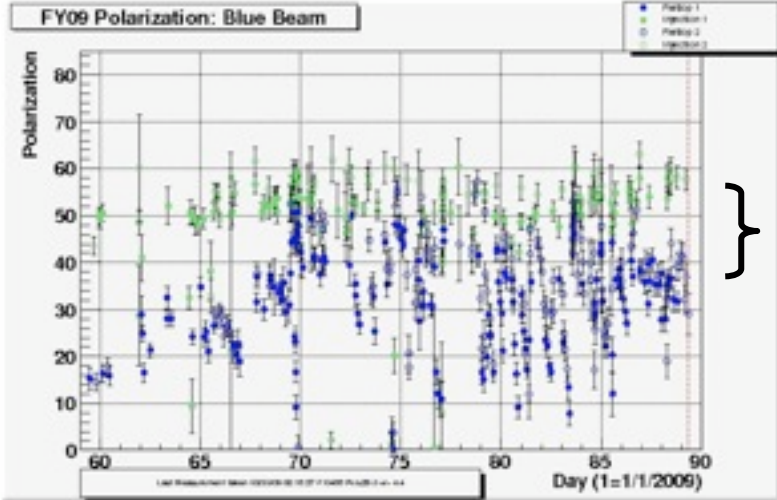
All events processed to muDst w/
 crude TPC calibration





STAR status / concerns / issues

□ Polarization - Run 9 500GeV

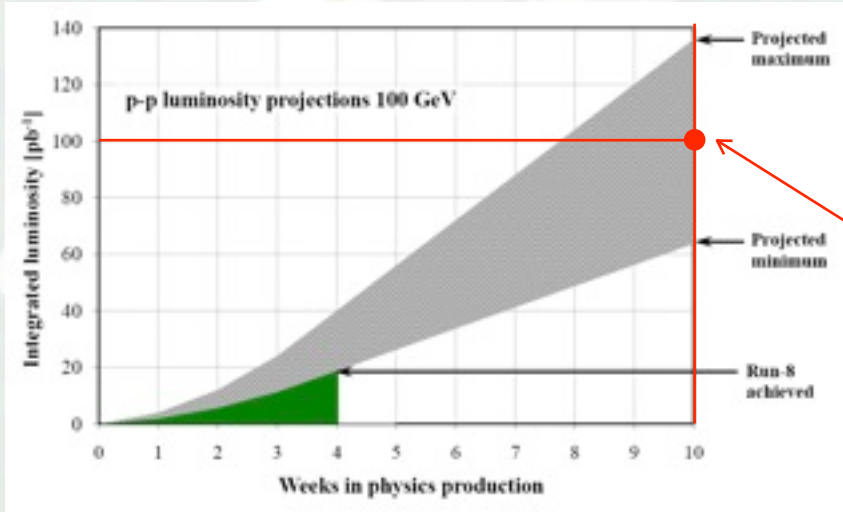


- Polarization at Injection in both beams: ~55%
- Important aspects for remaining 500GeV program:
 - Smooth running until ~April 10, 2009
 - Need to address differences in polarization at injection and reported polarization at 250GeV in particular following the first release of H-Jet measurements:
 - Uncertainty of CNI measurements (Rate dependence) ?
 - Polarization loss at ramp ?
- Tuning of STAR spin rotators



STAR status / concerns / issues

Requirements for Run 9 200GeV program



Assumption: $FOM = P^4 \cdot L \sim 6.5 pb^{-1}$
 $P \sim 0.6 / L_{delivered} \sim 100 pb^{-1} \quad L_{recorded} \sim 50 pb^{-1}$
Need: 10 weeks

Reach
BUR goal
in 10
weeks!

- STAR 200GeV physics program requires a ~60% beam polarization and a delivered luminosity of ~100pb⁻¹ in 10 weeks
- So far, Polarization at injection is below 60%!
 - What is the strategy to optimize BOTH beam intensity / polarization (AGS) to yield a FOM of ~6.5pb⁻¹?
- Are there any concerns about polarization lifetime issues at 200GeV (not expected from Run 6) following spin rotator tuning?