

RHIC status

Chuyu Liu
Time meeting
June 9, 2015



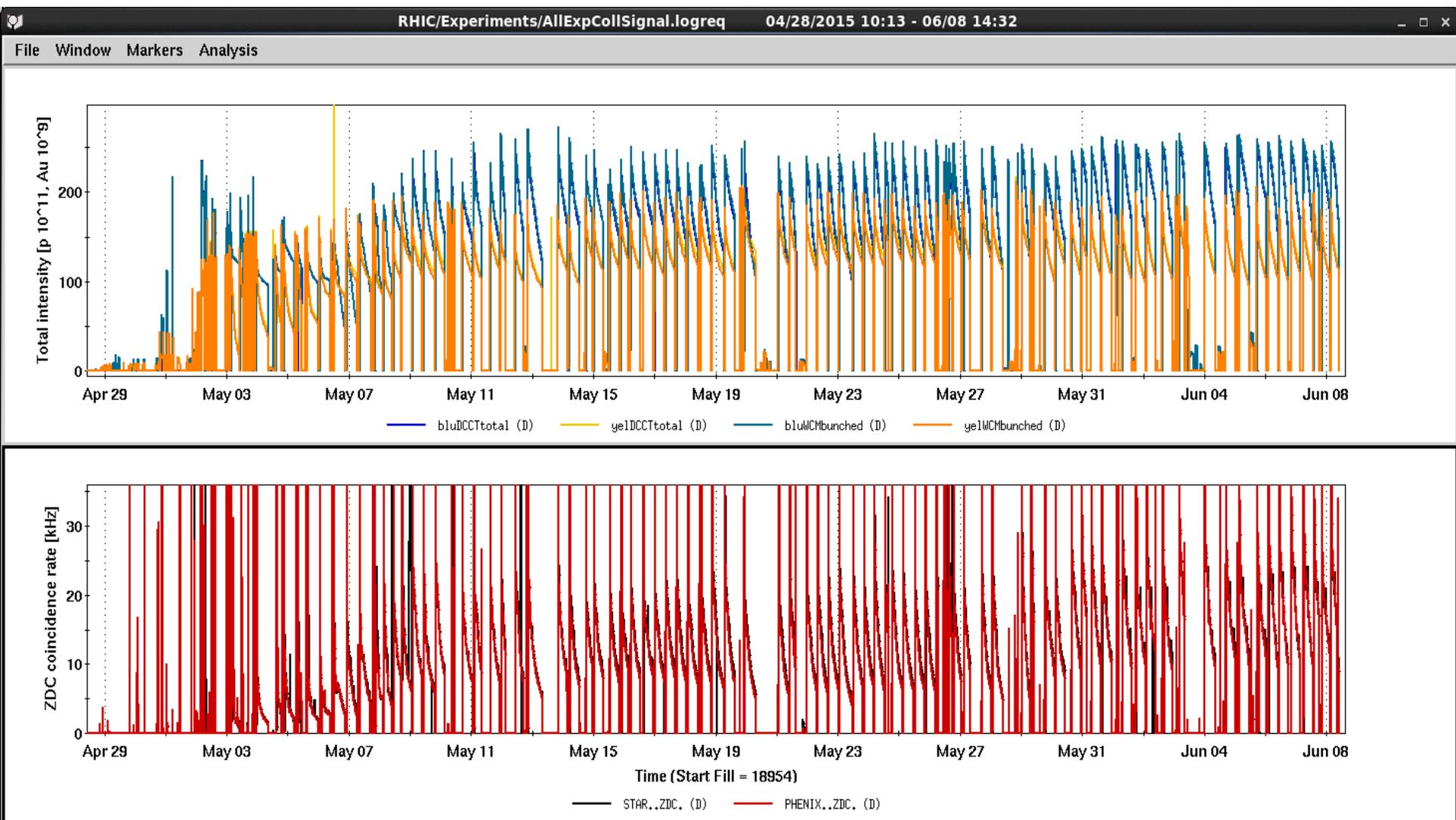
U.S. DEPARTMENT OF
ENERGY

Office of
Science

RHIC status

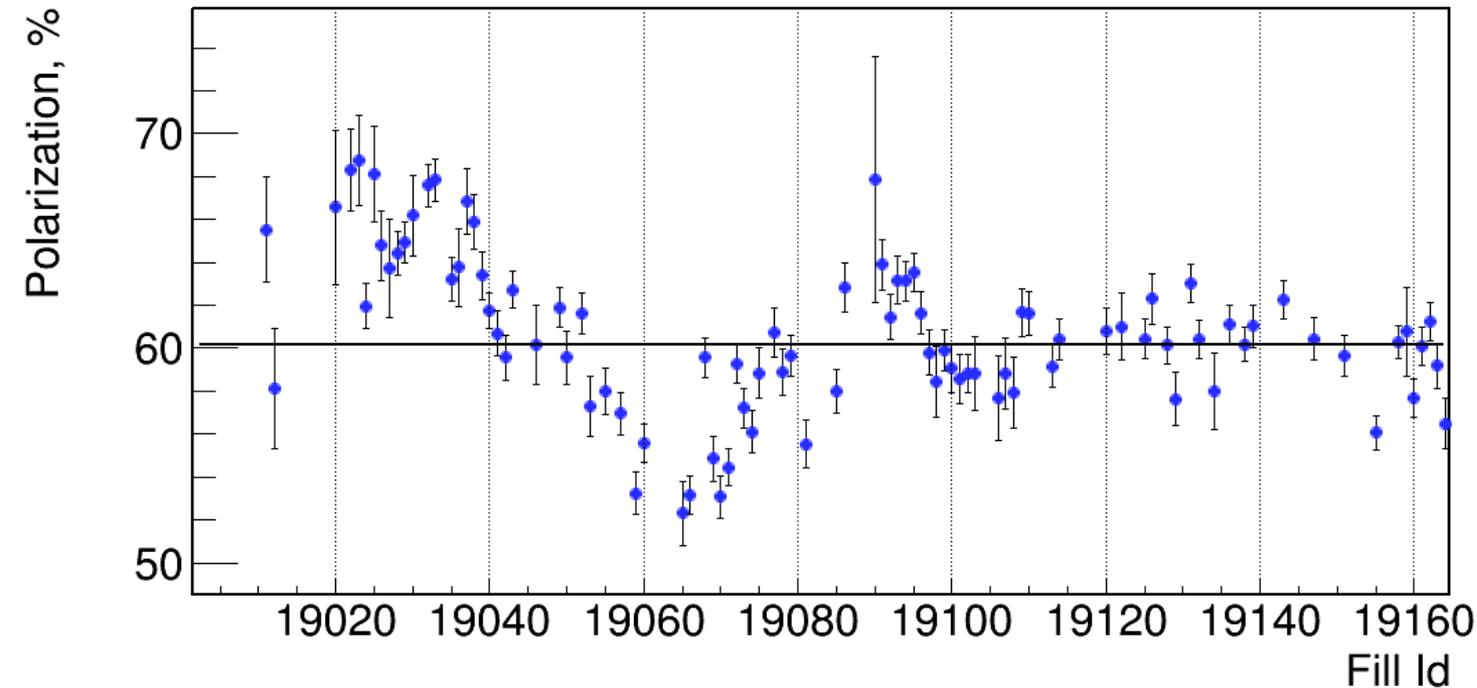
- 6 weeks of p-Au physics run completed on Monday, June 8.
- Switching to p-Al started Monday morning. Put up a store in 16 hrs, quickest switch-over ever!
- June 8—June 22 for p-Al.
- APEX done last Wednesday, local polarimeter measurement done for PHENIX last Thursday.

Intensity & rates



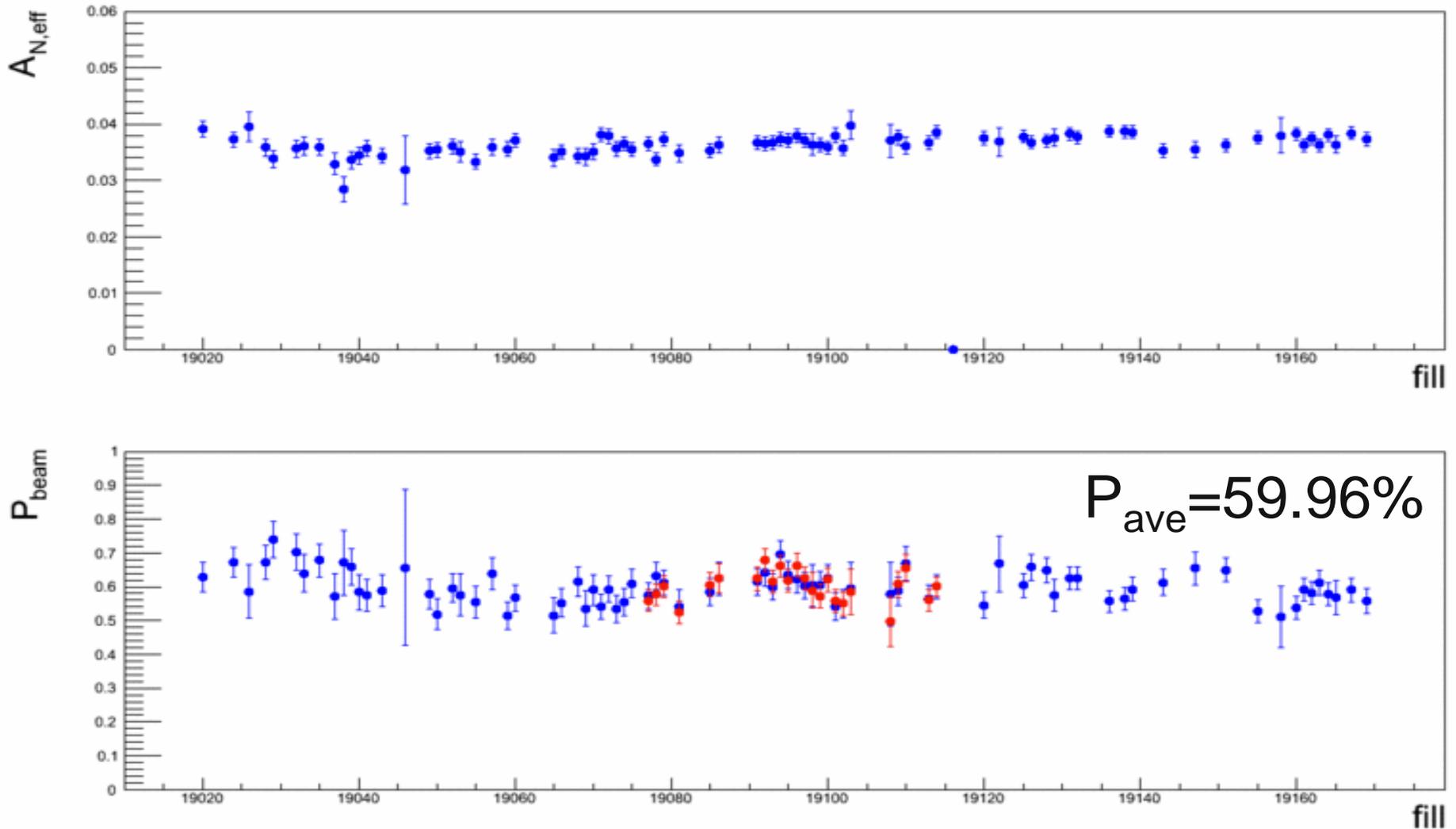
P-carbon polarization

Fills 19002--19164, Analyzed Sun Jun 7 10:28:23 2015, Version v2.2.5M;, gwebb

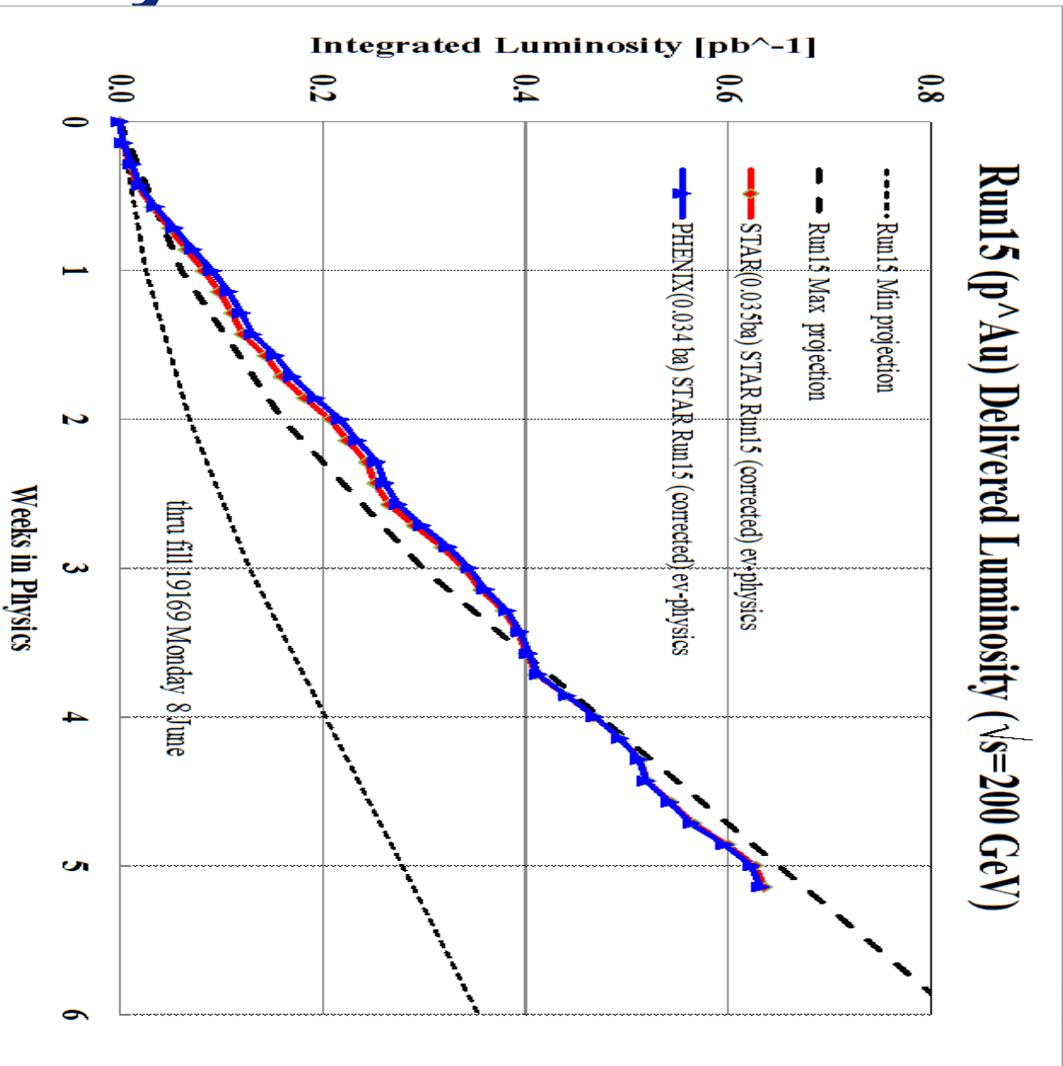


Entries	280
Mean	1.908e+04
RMS	43.4
Underflow	0
Overflow	0
Integral	5579
χ^2 / ndf	821.3 / 91
Prob	0
p0	60.17 \pm 0.11

H-jet polarization



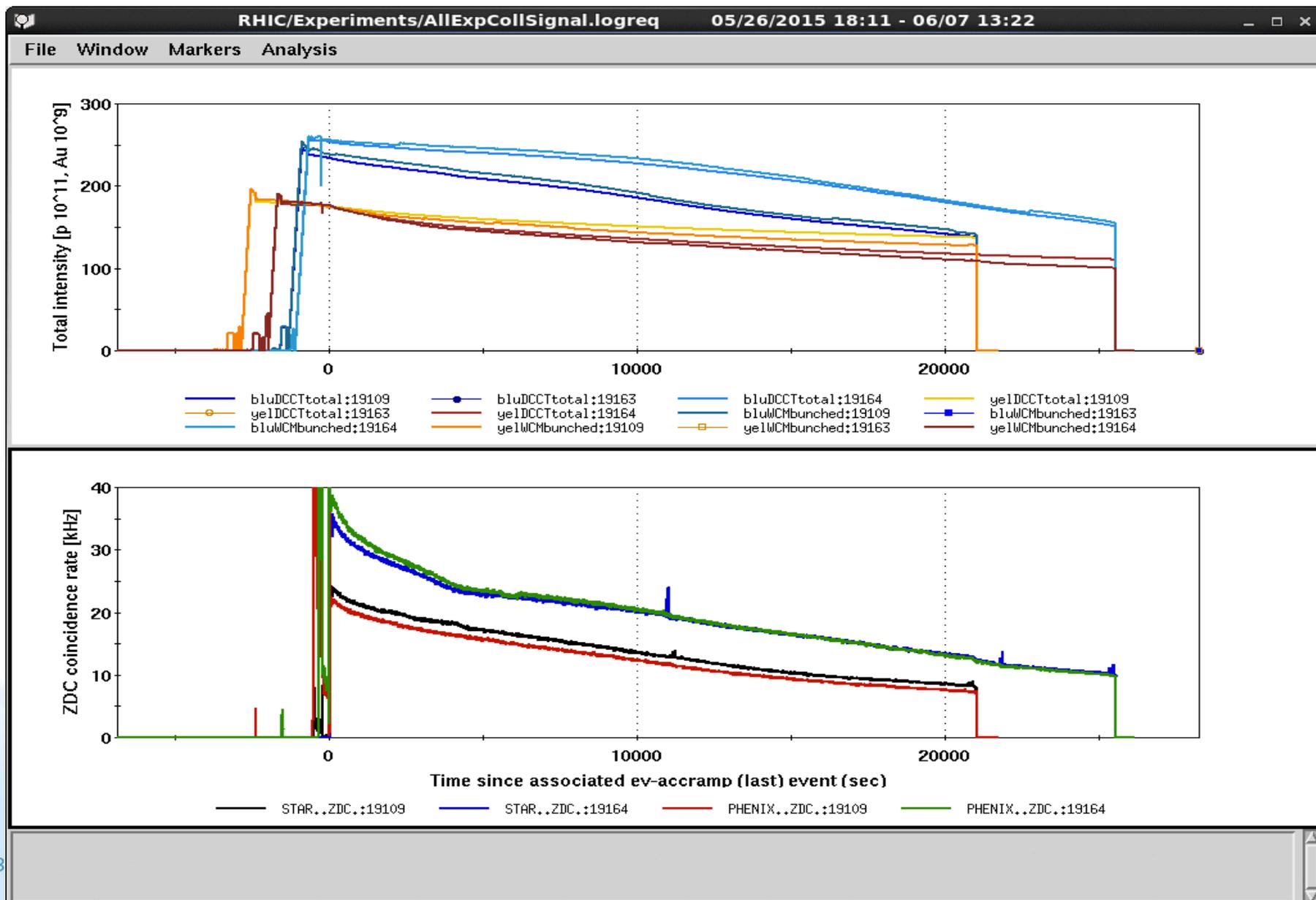
Luminosity



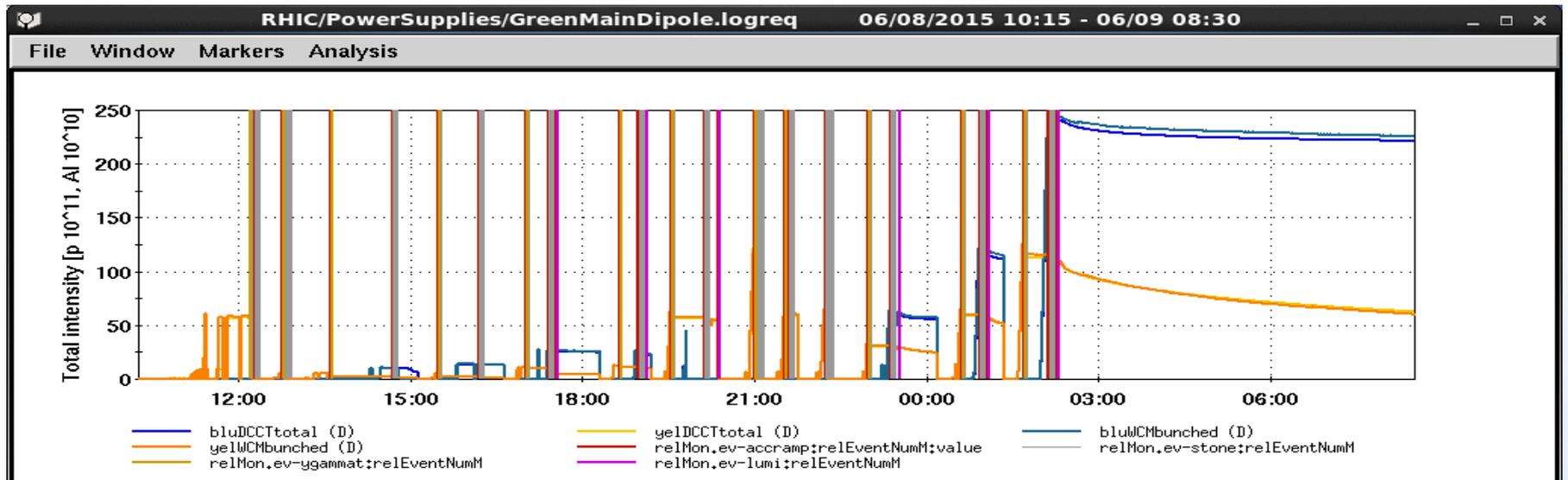
lessons

- The p-Au run is special in terms of aperture and ramp. It was well prepared, which is the starting point for smooth run.
- Proton emittance matters, more than expected.
- Pre-fire.

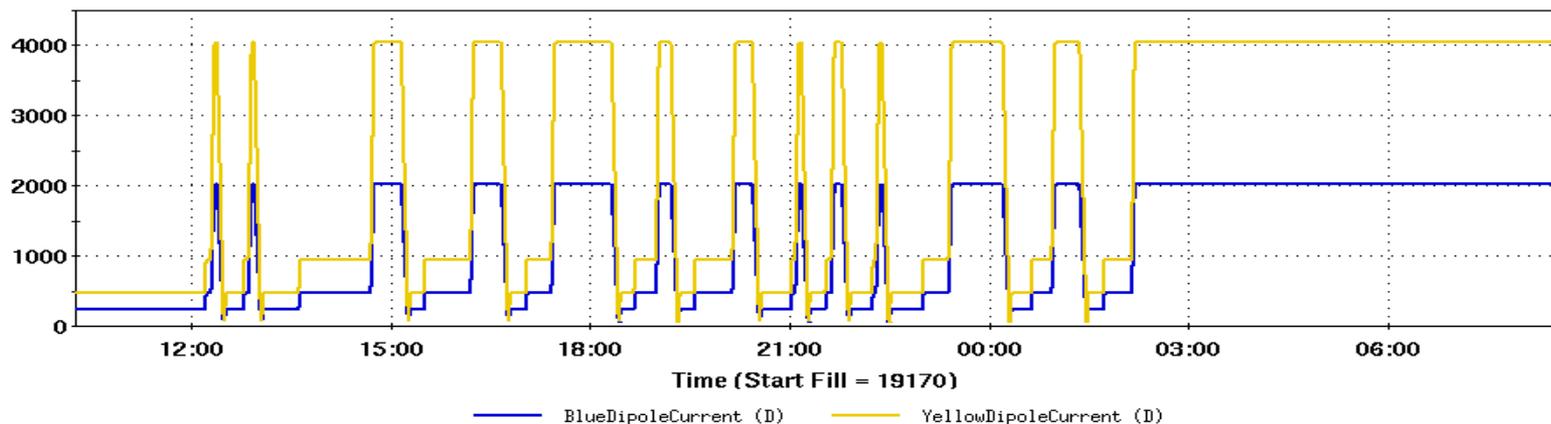
Improvement by proton tuning



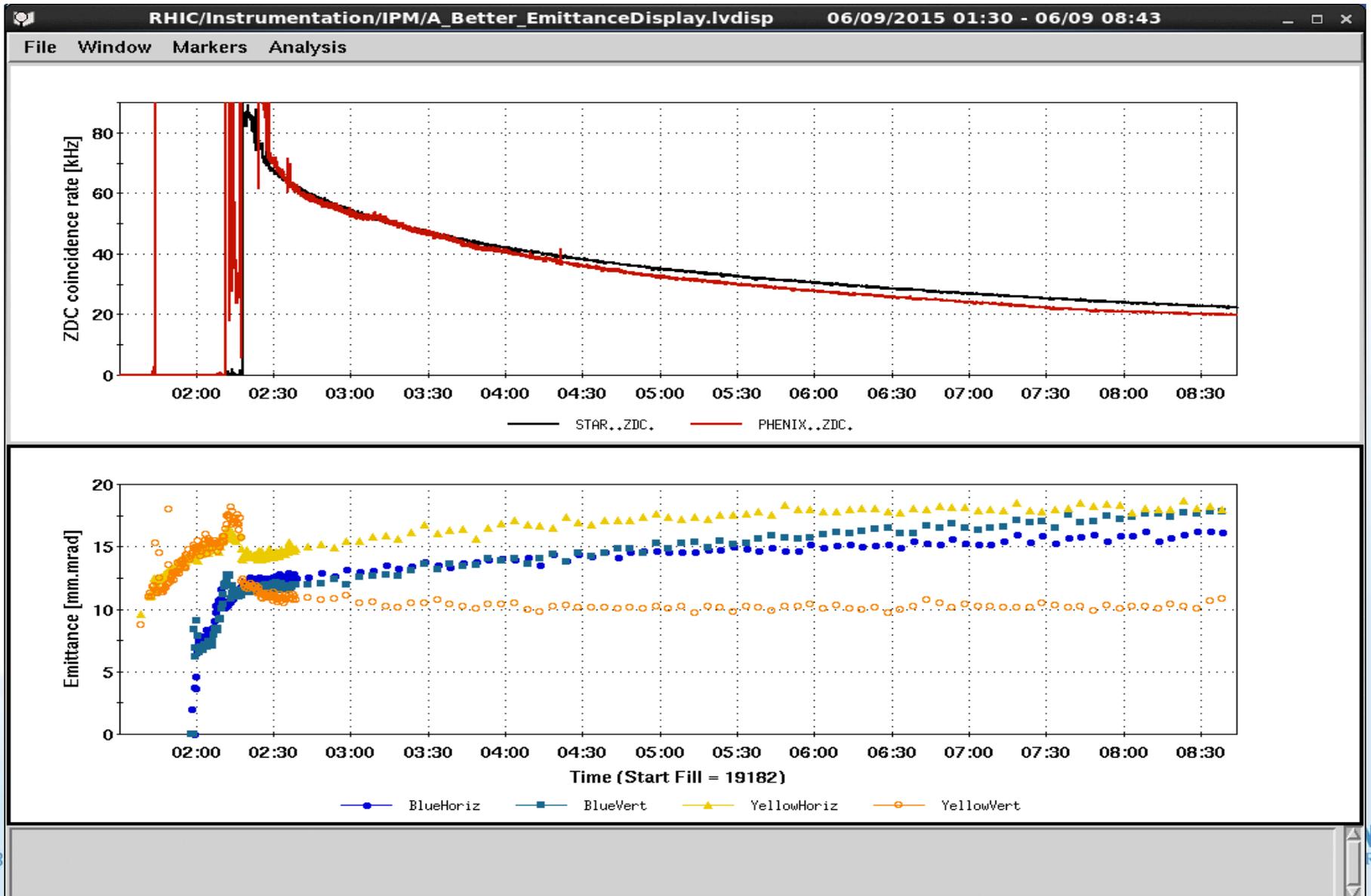
Switch-over to p-AI



Blue and Yellow Main Magnet Currents



First p-AI store



Plan of the week

- Maintenance on Wednesday, June 10.
- APEX on June 17.