

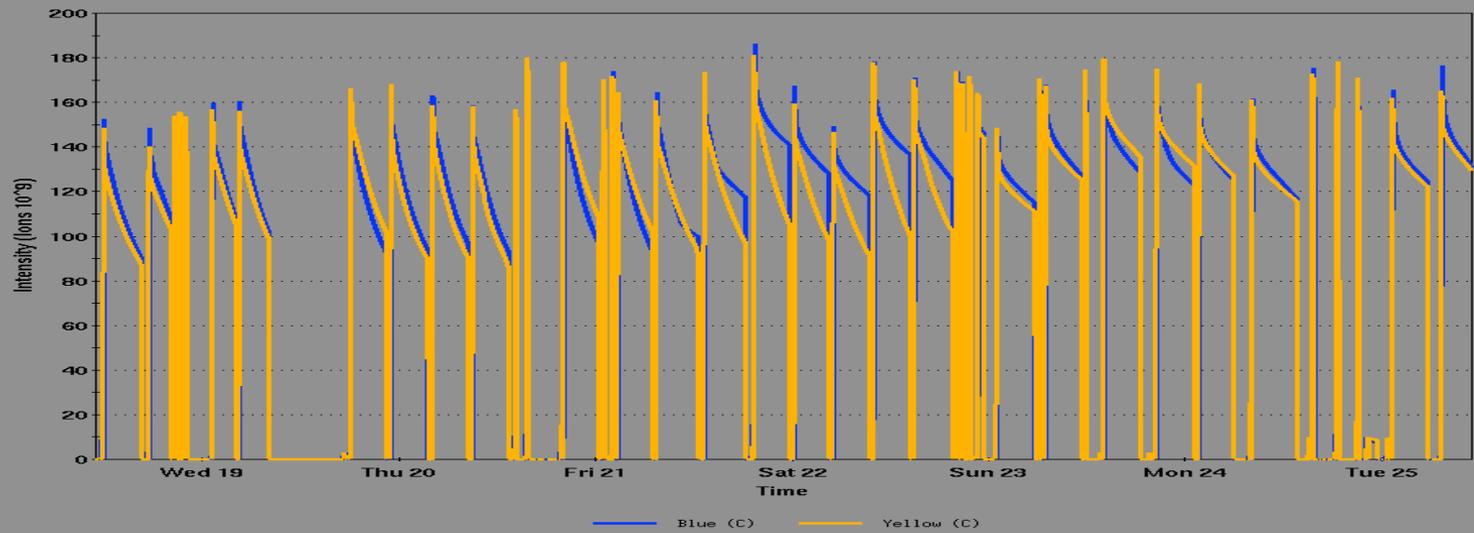


# RHIC Run 14 Time Meeting

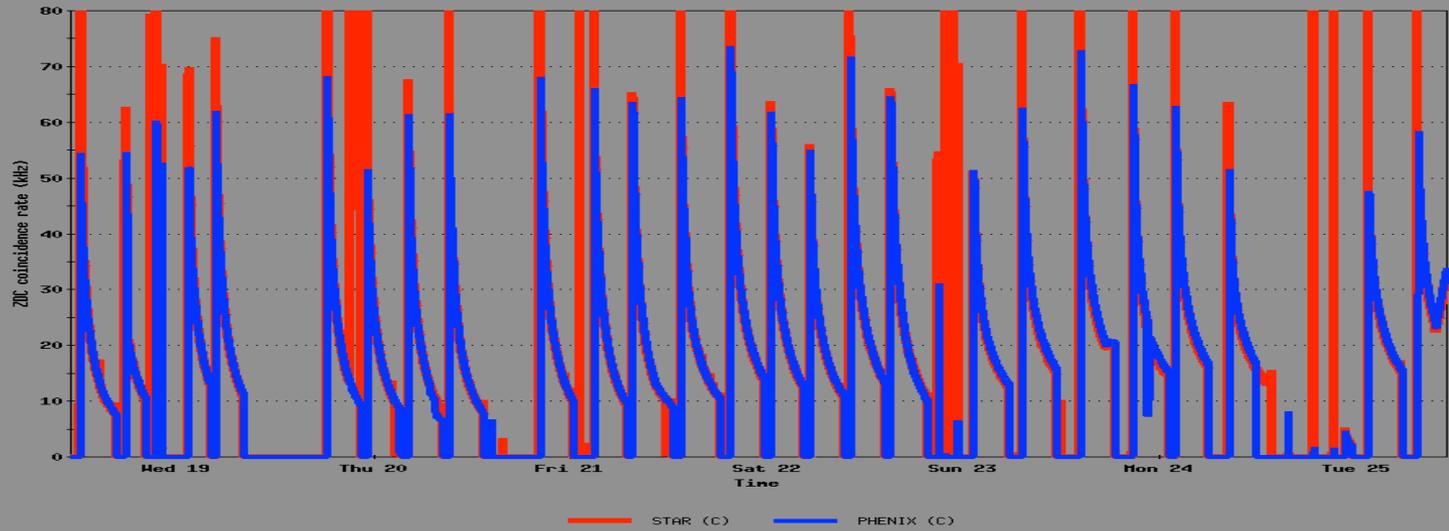
# Run 14 Status – Mar. 25

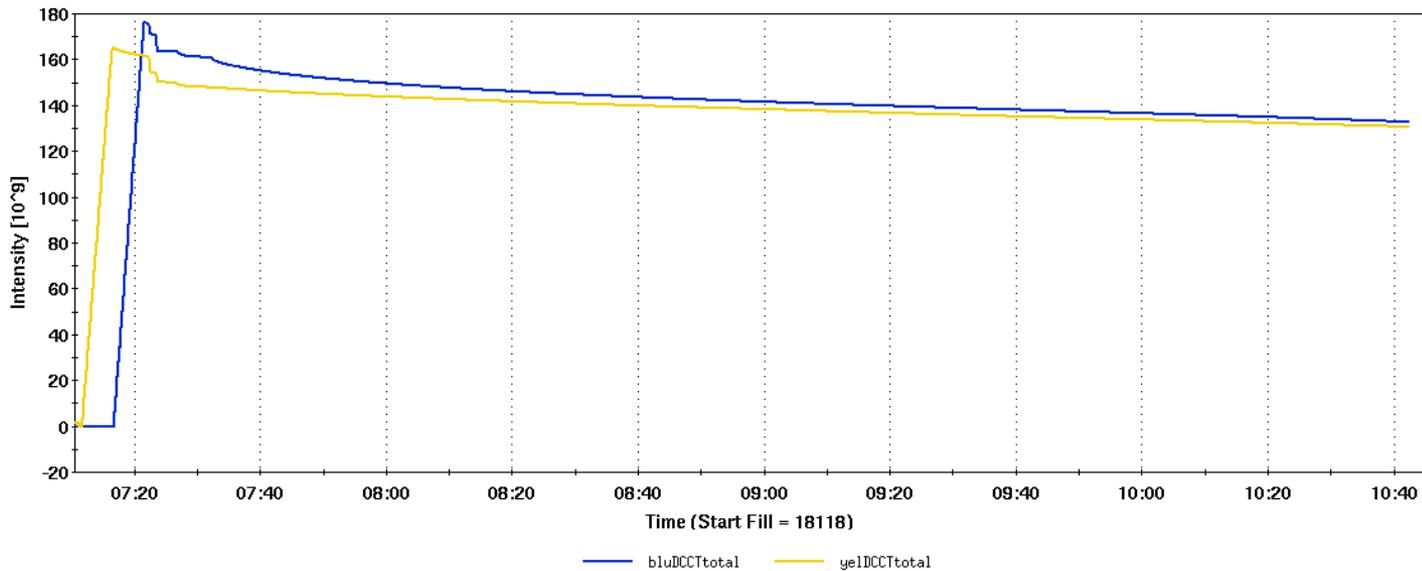
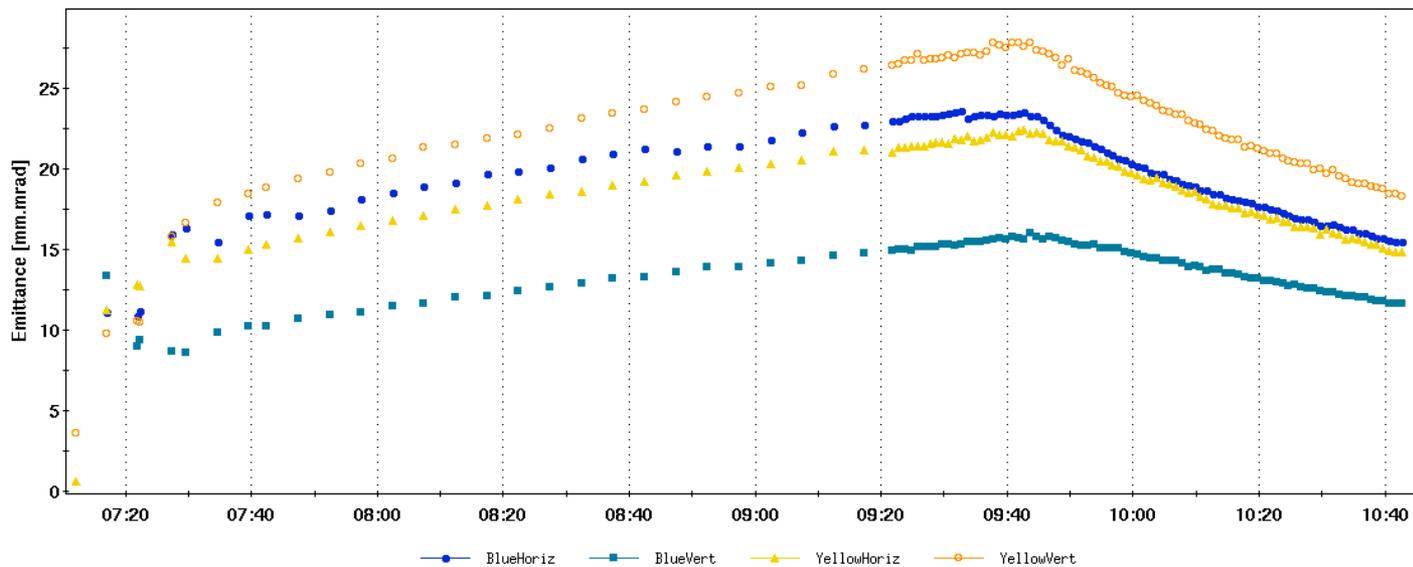
- 111x111 fills at  $1.6e9$  ions/bunch w/ rebucketing at store; scrubbing essentially done.
- New record peak luminosity for Fill 18093 with  $L > 60e26 \text{ cm}^{-2}\text{s}^{-1}$ .
- Stochastic Cooling: longitudinal in B+Y since 3/21, horizontal just about operational.
- Few hiccups with intensities from EBIS.
- Sat. to Sun. (from eLog): “2 failed ramps due to Landau trips, a bad BPM messing up orbit, and a blue [QLI] that occurred when yellow feedback was engaged at store”.  
=> all problems were addressed and solved/understood
- BS3-4 storage cavities tripping; work ongoing to troubleshoot, solution imminent.
- Fix for main magnet regulator loop card, to reduce risks of QLI on up/down ramps.
- First APEX: 16 hours tomorrow (3/26), back in physics for the following OWL shift.

### RHIC Beam Intensity, Tue Mar 25 10:59:42 EDT 2014

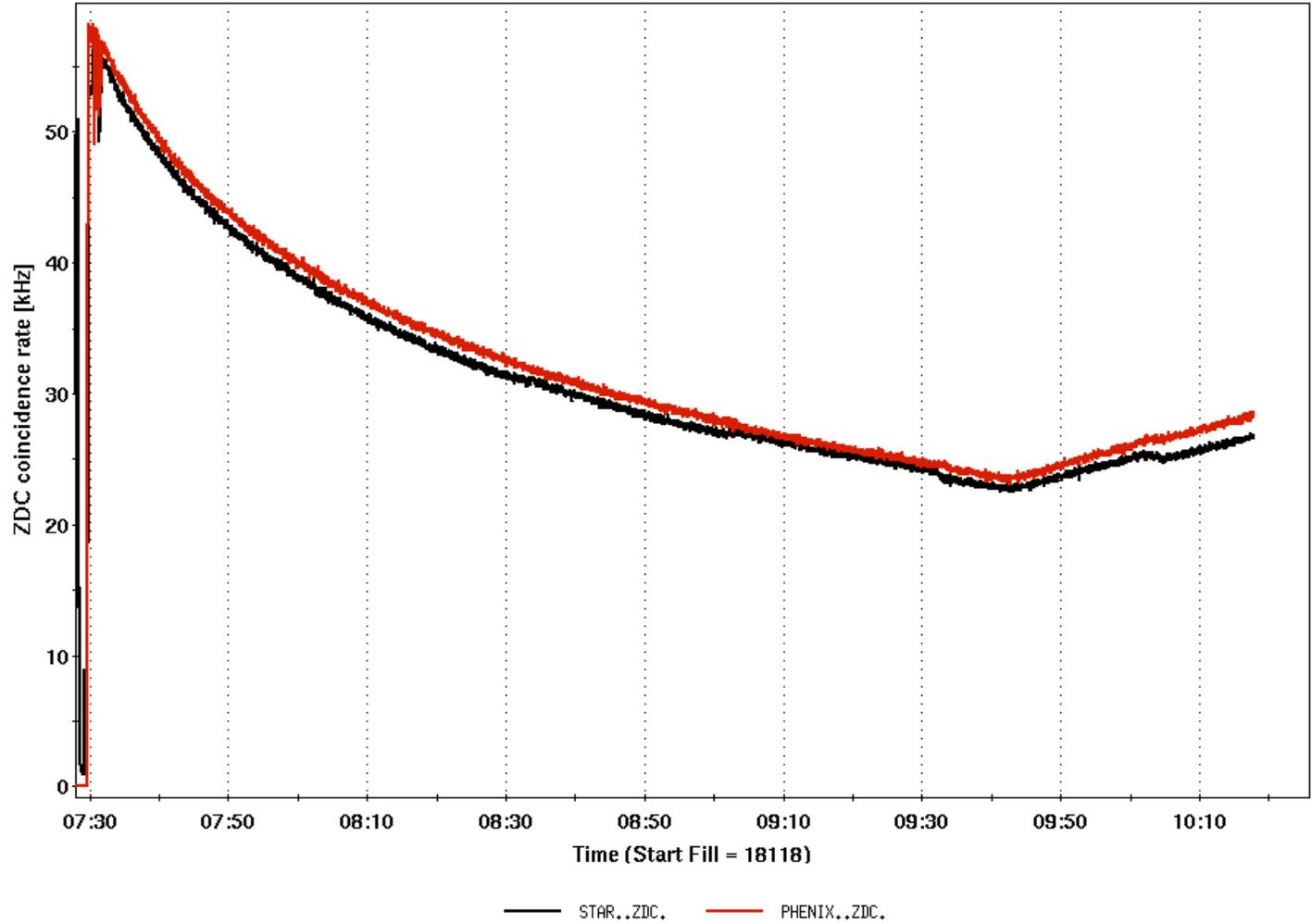


### Experimental Event Rates, Tue Mar 25 10:59:58 EDT 2014



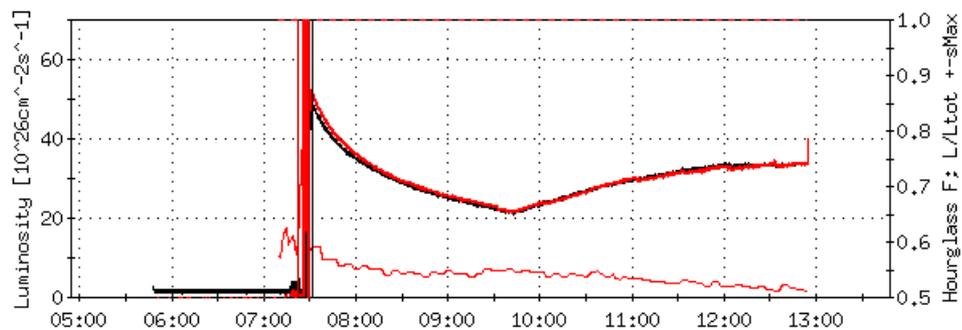
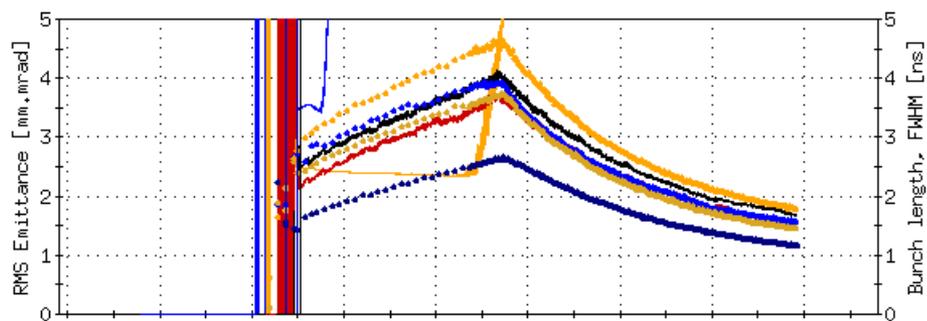
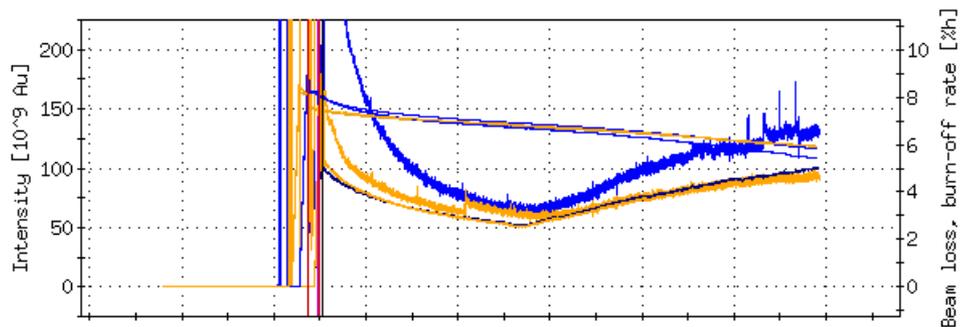


### Experimental Coincidence Signals



Setup Display

Help



Fill  Update Species AuAu  
 Run

Beam Parameters  
 Pattern 111x111 gamma

Parameters Display Fit

	PHENIX	STAR
Number collisions	<input type="text" value="111"/>	<input type="text" value="102"/>
beta* [m]	<input type="text" value="0.70"/>	<input type="text" value="0.70"/>
sMax [m]	<input type="text" value="10.00"/>	<input type="text" value="10.00"/>
sigma [b]	<input type="text" value="9.900"/>	<input type="text" value="9.500"/>
Single Correction	<input type="text" value="All"/>	<input type="text" value="All"/>

Tue Mar 25 12:56:11 2014 - INFO : Phenix Int Lumi = 0  
 Tue Mar 25 12:56:11 2014 - INFO : Star avg Lumi = 0  
 Tue Mar 25 12:56:11 2014 - INFO : Star Int Lumi = 0

# Run 14 Status – Mar. 18

- Switched over from Low Energy Run on 3/11, with first beam circulating in RHIC at regular injection energy at 04:00 on 3/12. First 6x6 ramp at 11:30 on 3/13.
- Set up orbit bumps for pre-fire protection in both rings: initial peak amplitude was 30mm, but caused repeated QLI's with every regular beam dump. Amplitude scaled down to 20mm after careful aperture scan on 3/13-14.
- 111x111 fills at  $0.8e9$  ions/bunch w/ rebucketing at store since 3/15 at 02:00. **Physics declared with Fill 18046, 14:10 on 3/15.**
- Slowly increasing the bunch intensity for scrubbing; goal is  $1.3e9$  by 3/19 at 08:00 (prior to Maintenance Day).
- Continuing work on Landau cavities; Stochastic Cooling commissioning (all 3 planes) should start right after we recover from Maintenance.
- Chromaticity measured at injection, store and along the ramp (via radial offset); linear optics measured at injection and store.
- eLens commissioning running in parallel to operations.

