

RHIC Operation Status

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(2012 May 29, Timing Meeting)

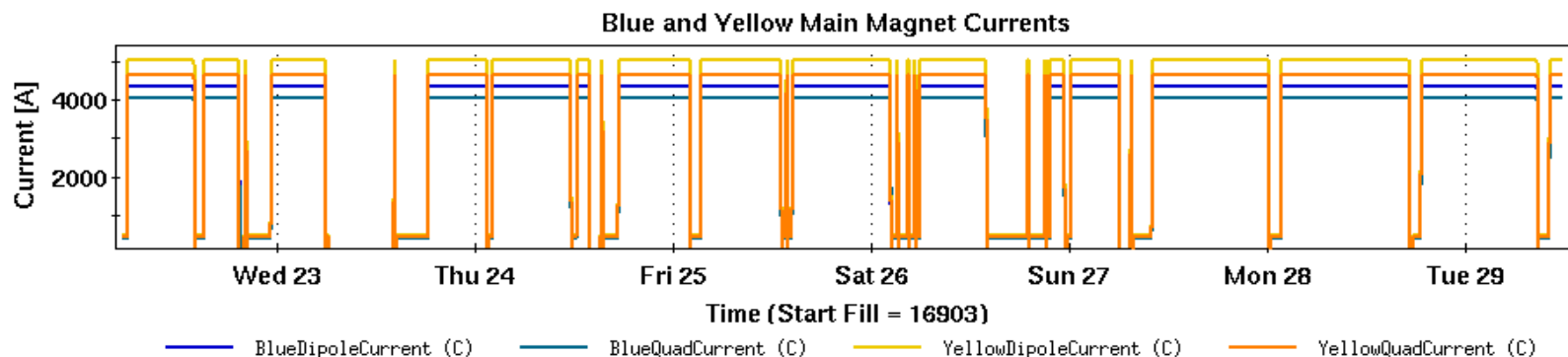
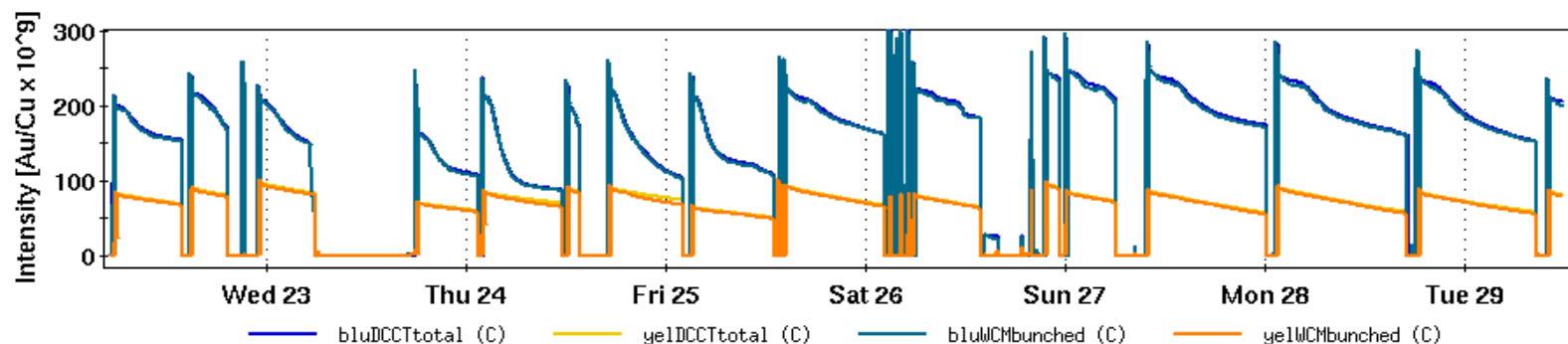
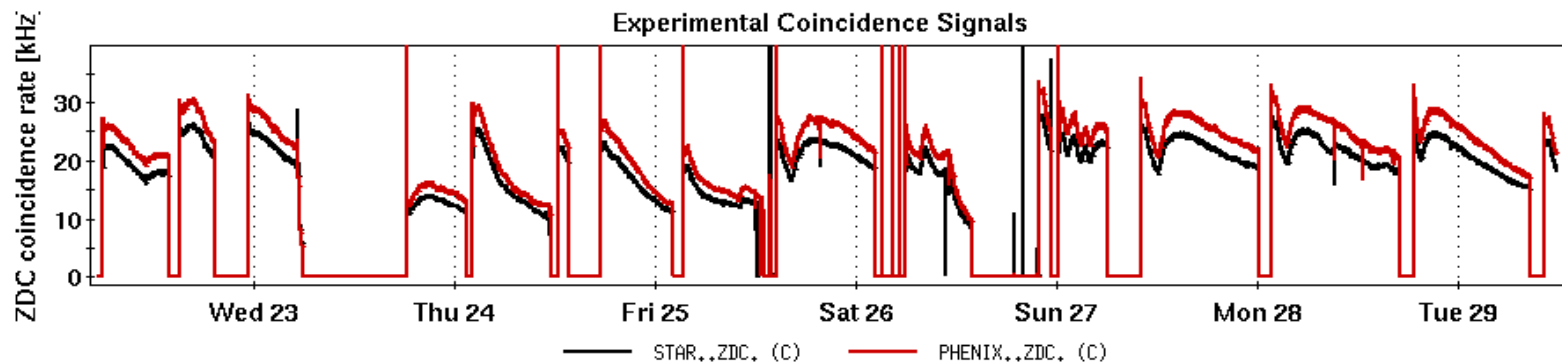
Operation Updates

Continue Physics running. Maintenance on Wednesday. 3-D Stochastic available in both rings since Wednesday. Blue bunch intensity reached $2.8e9$. Maximized integrated luminosity by balancing cooling speeds between two rings. Store length increased to 14 hours. Collimation on ramp was installed. Thanks go to the Operation Group.

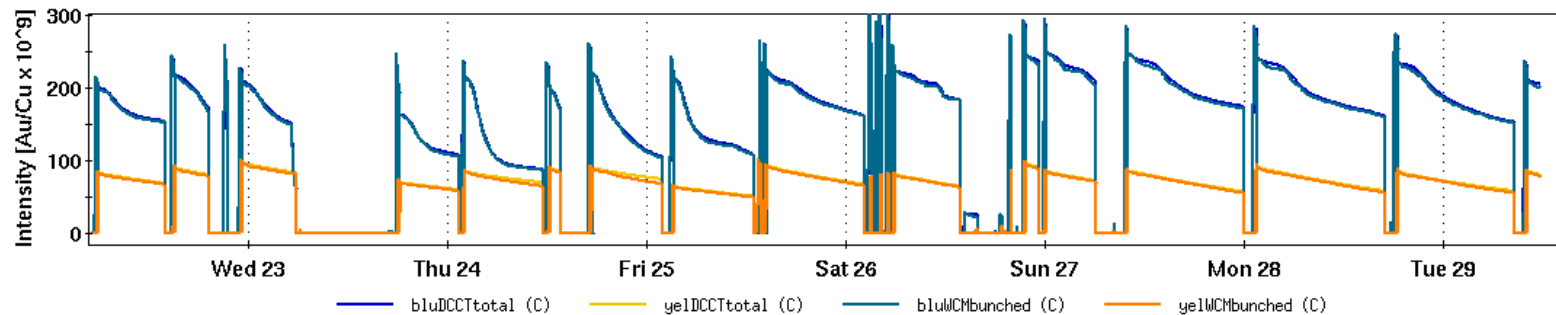
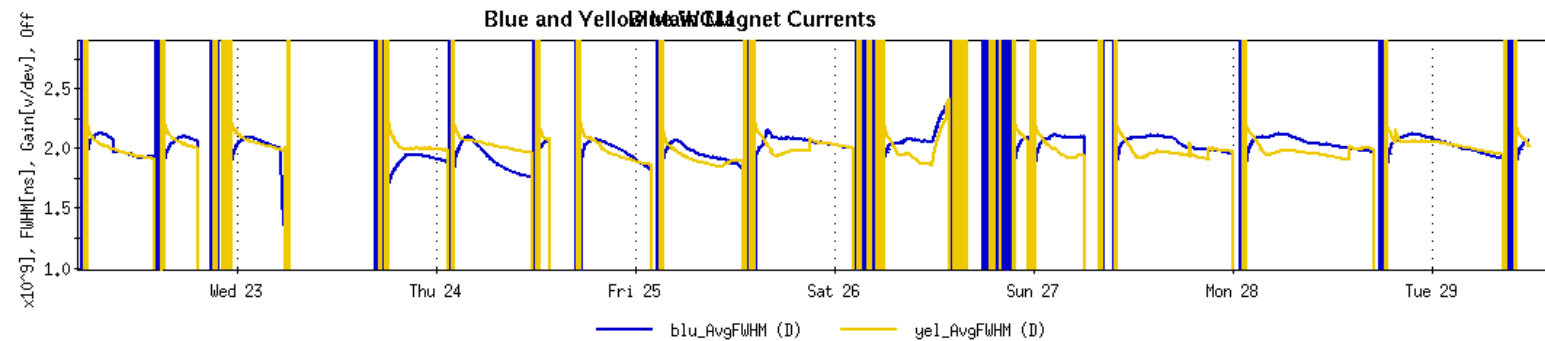
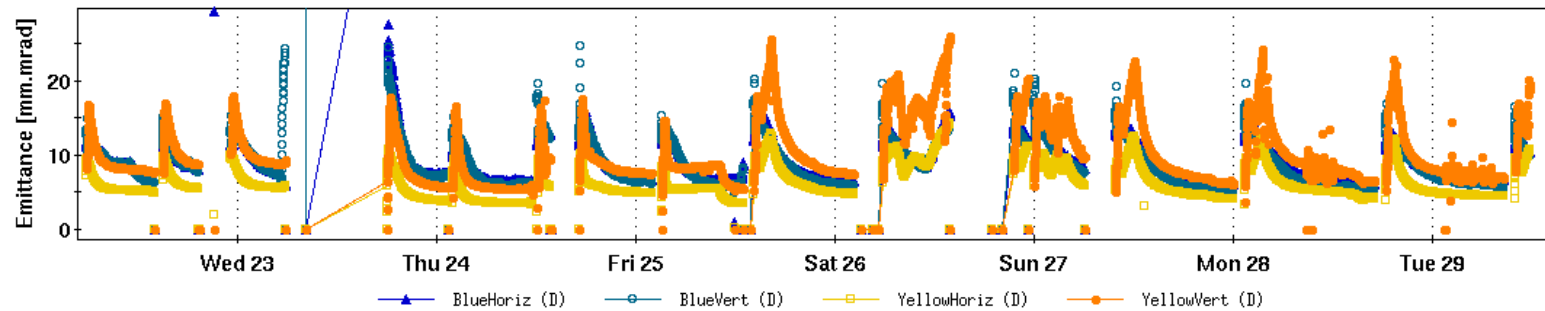
Major Machine Failures:

- Yellow phase shifter PS tripping-off, > 8 hours loss
- Several A/C units not working well on Saturday

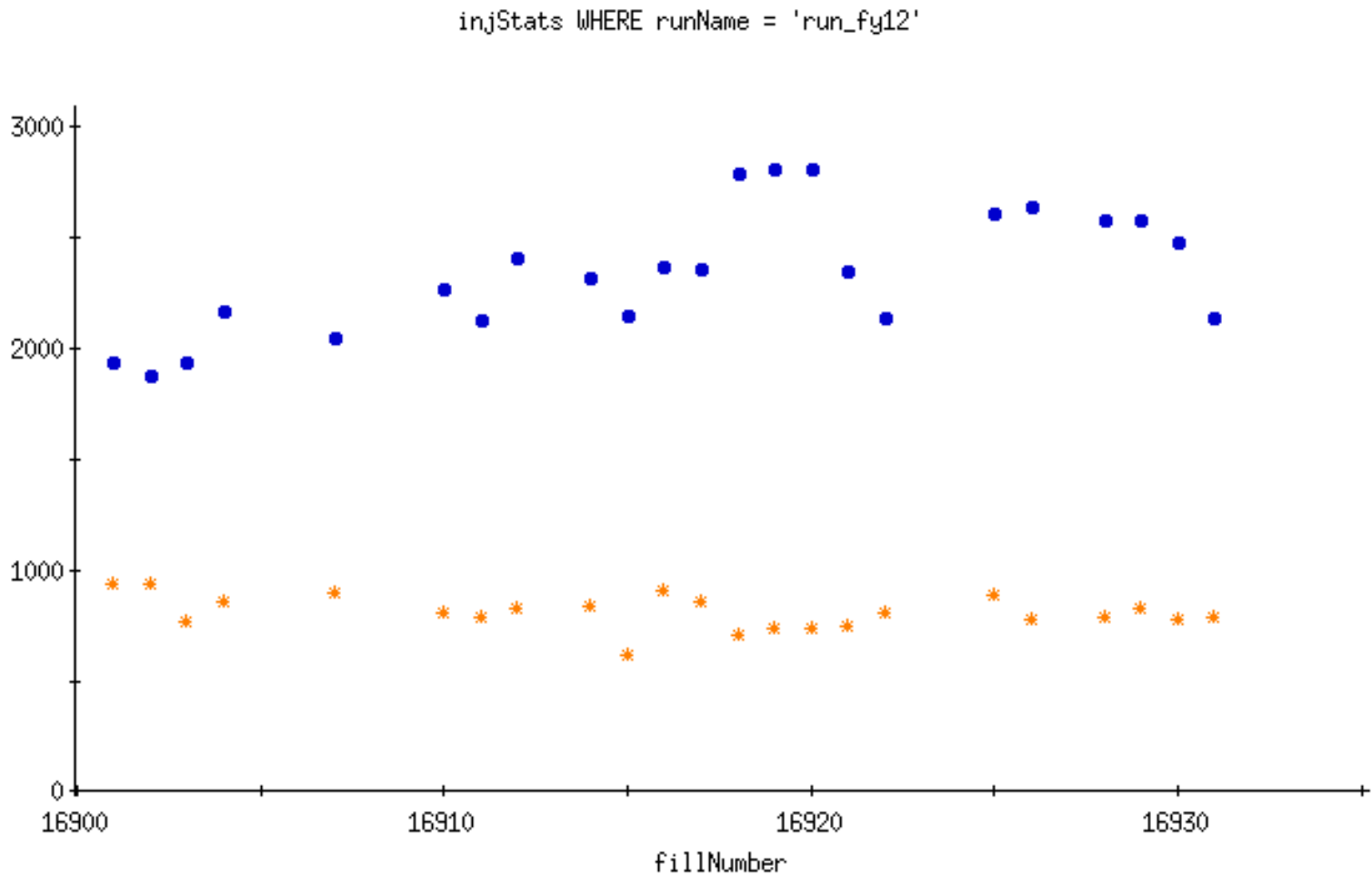
Beam Intensities & Experiment Rates



Bunch Length & Transverse Emittances

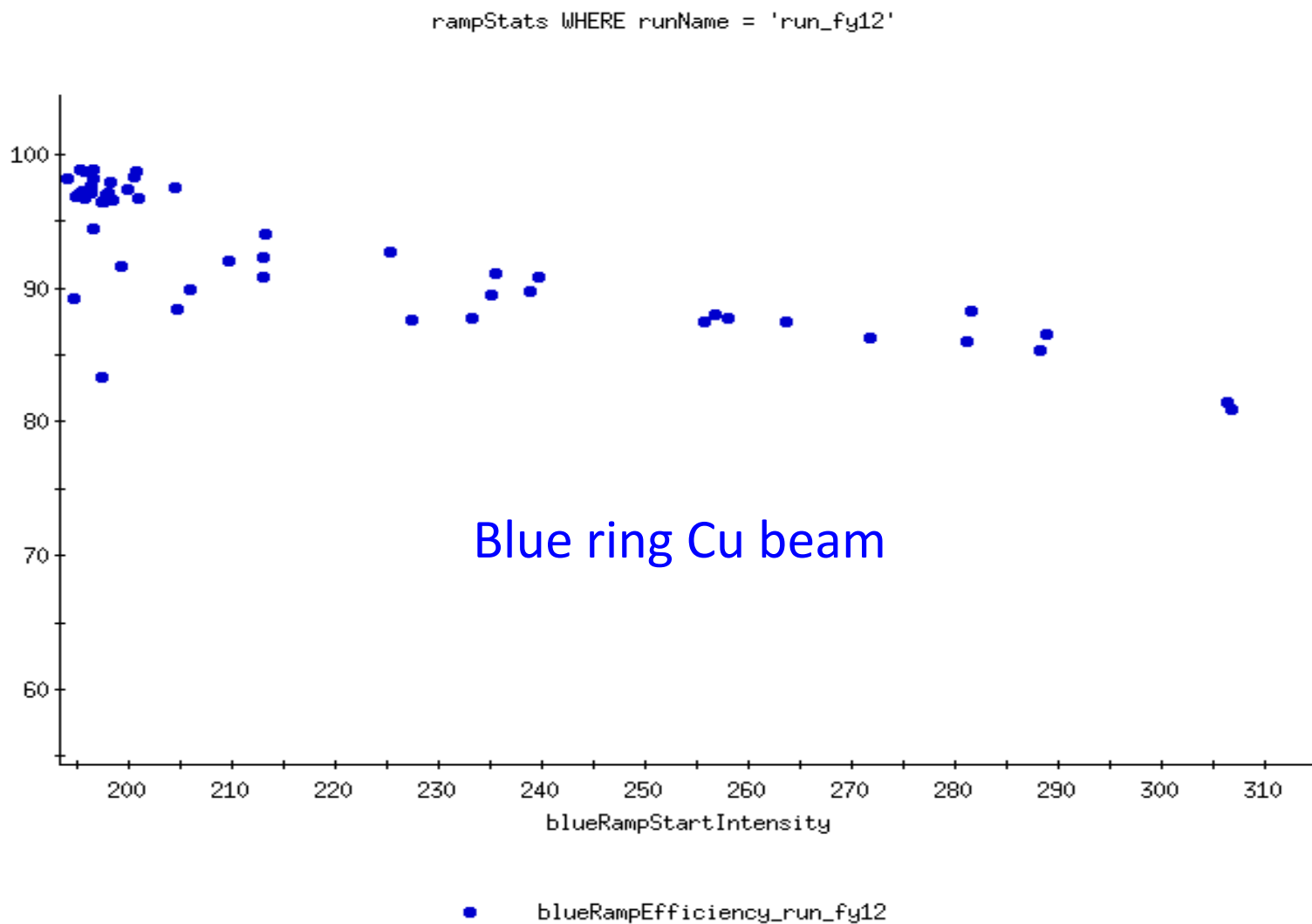


Pushing Bunch Intensity



● blueBunchIntensityAvg_run_fy12 * yellowBunchIntensityAvg_run_fy12

Ramp Efficiency vs. Bunch Intensity



Plan of the Week

- Continue Stable Physics running
- Pushing RHIC bunch intensity

Bunch intensity goal at store: Cu $\rightarrow$ 4.0e9, Au $\rightarrow$ 1.3e9

Currently max. averaged at injection: 2.8e9 Cu, 0.987e9 Au

- Increase Blue Ramp Efficiency

Improve de-bunching Blue beam at injection

Reduce emittance blowup at transition

- Increasing Blue cooling power