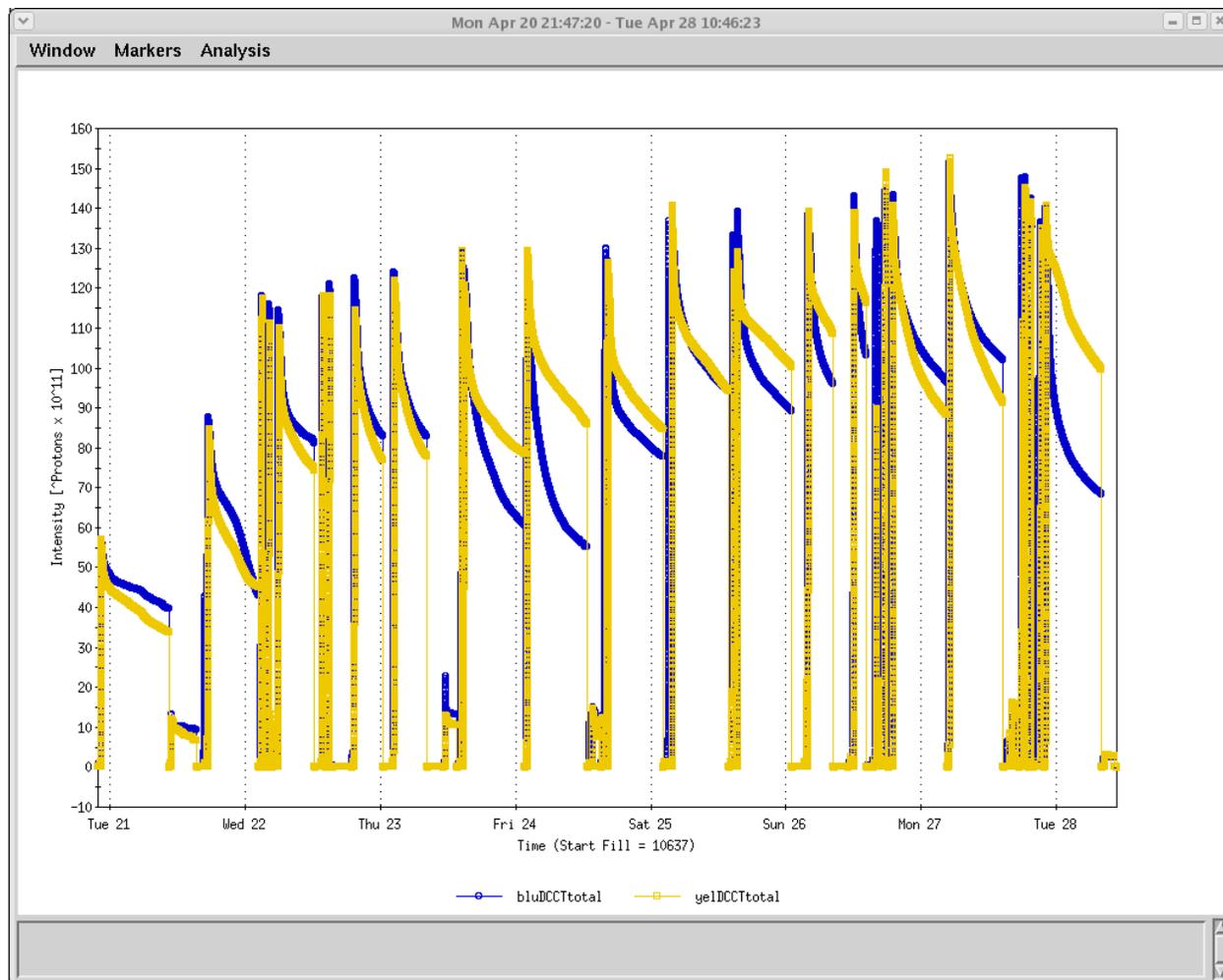


# RHIC Status

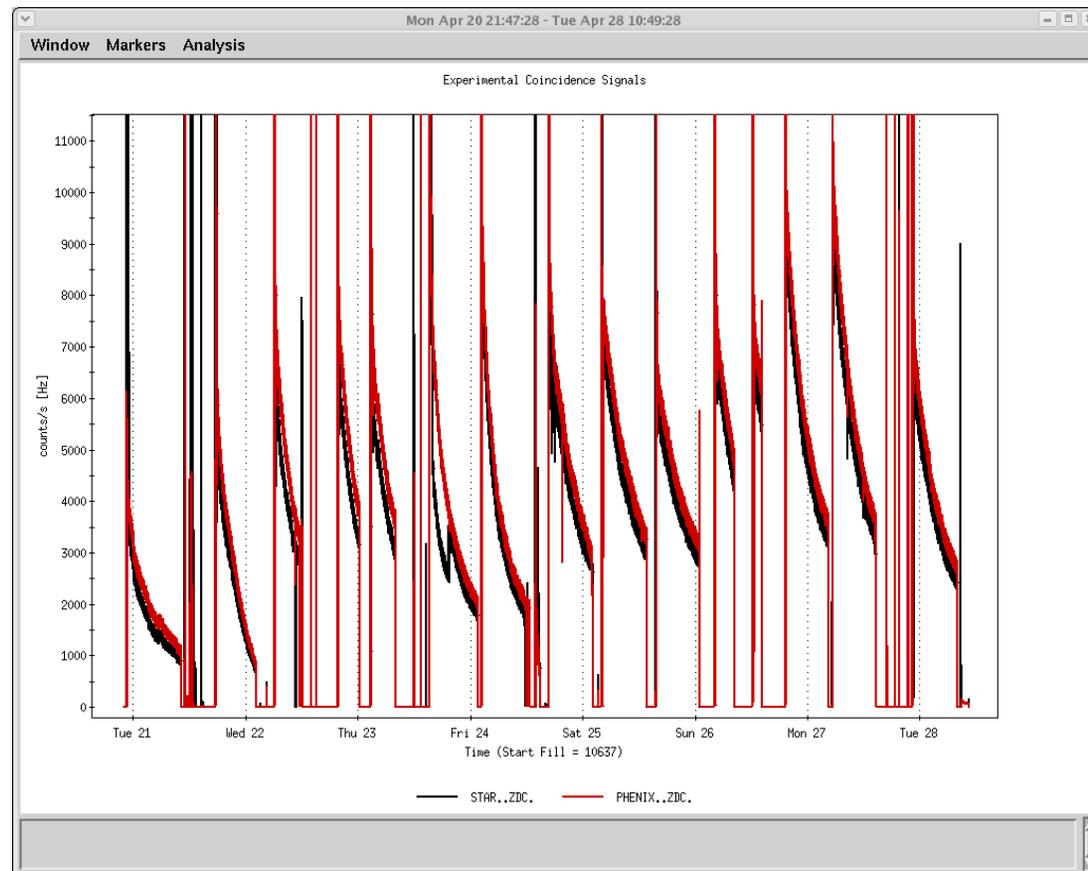
April 28, 2009

- Intensities reached  $1.4 \cdot 10^{11}$ /bunch
- Luminosity is at same level as Run-6/Run-8,  $35 \cdot 10^{30} \text{ cm}^{-2} \text{ sec}^{-1}$
- Tried quad mode pumping in the AGS to help hourglass effect. Transverse emittances significantly larger.
- Counterphased RF cavities at injection to improve longitudinal matching. Landau cavities trip frequently. Will try again with higher voltage to avoid trips.

# Beam intensities

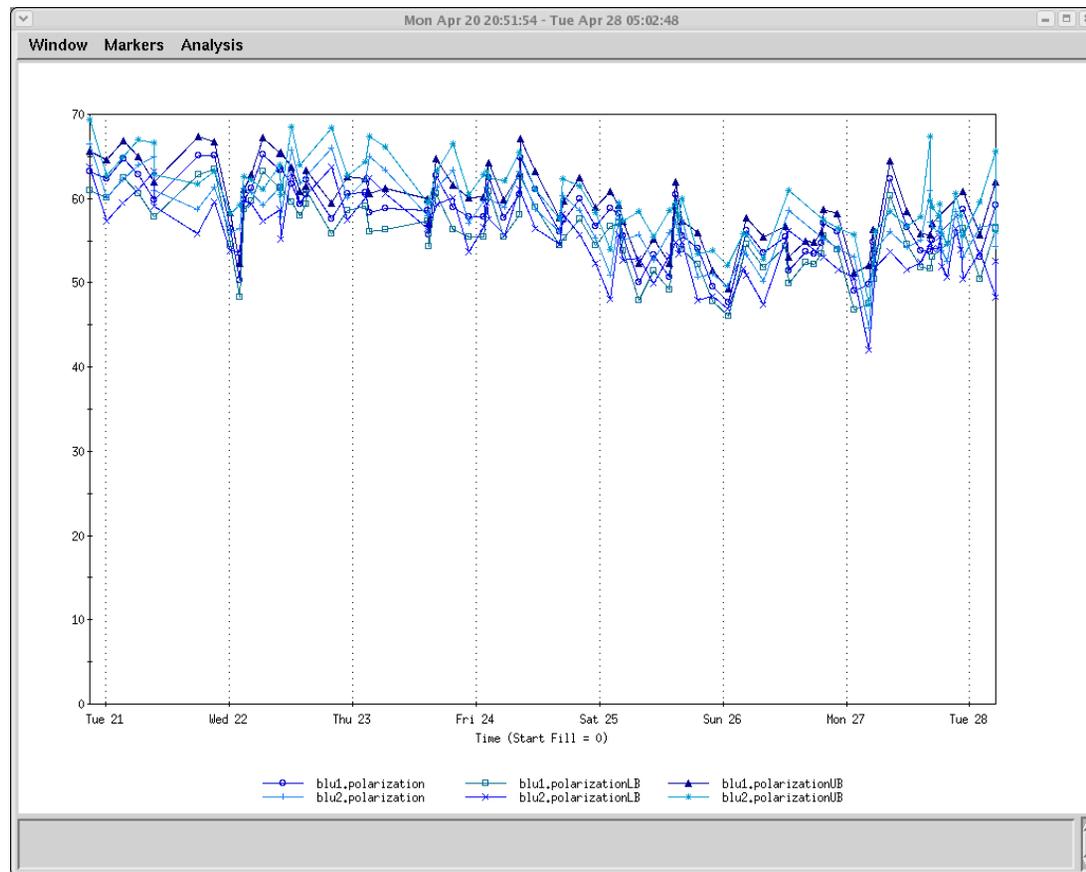


# Collision rates



With latest ZDC cross section measurements, highest rates correspond to  $35 \cdot 10^{30} \text{ cm}^{-2} \text{ sec}^{-1}$

# Blue CNI offline polarization



Significant drop on Friday evening

# Yellow CNI offline polarization



Significant drop Sunday afternoon

## Plan for the week

- Low luminosity store(s) for STAR today
- Try RF counterphasing once more this afternoon; one physics store until 7 PM
- APEX overnight, then Maintenance Day
- 2 h 9 MHz development on Thursday, probably spin flipper work
- Physics stores, with slowly increasing intensity to maximize luminosity