

# RHIC status

*Chuyu Liu*  
*Time meeting*  
*May 12, 2015*

**BROOKHAVEN**  
NATIONAL LABORATORY  
*a passion for discovery*



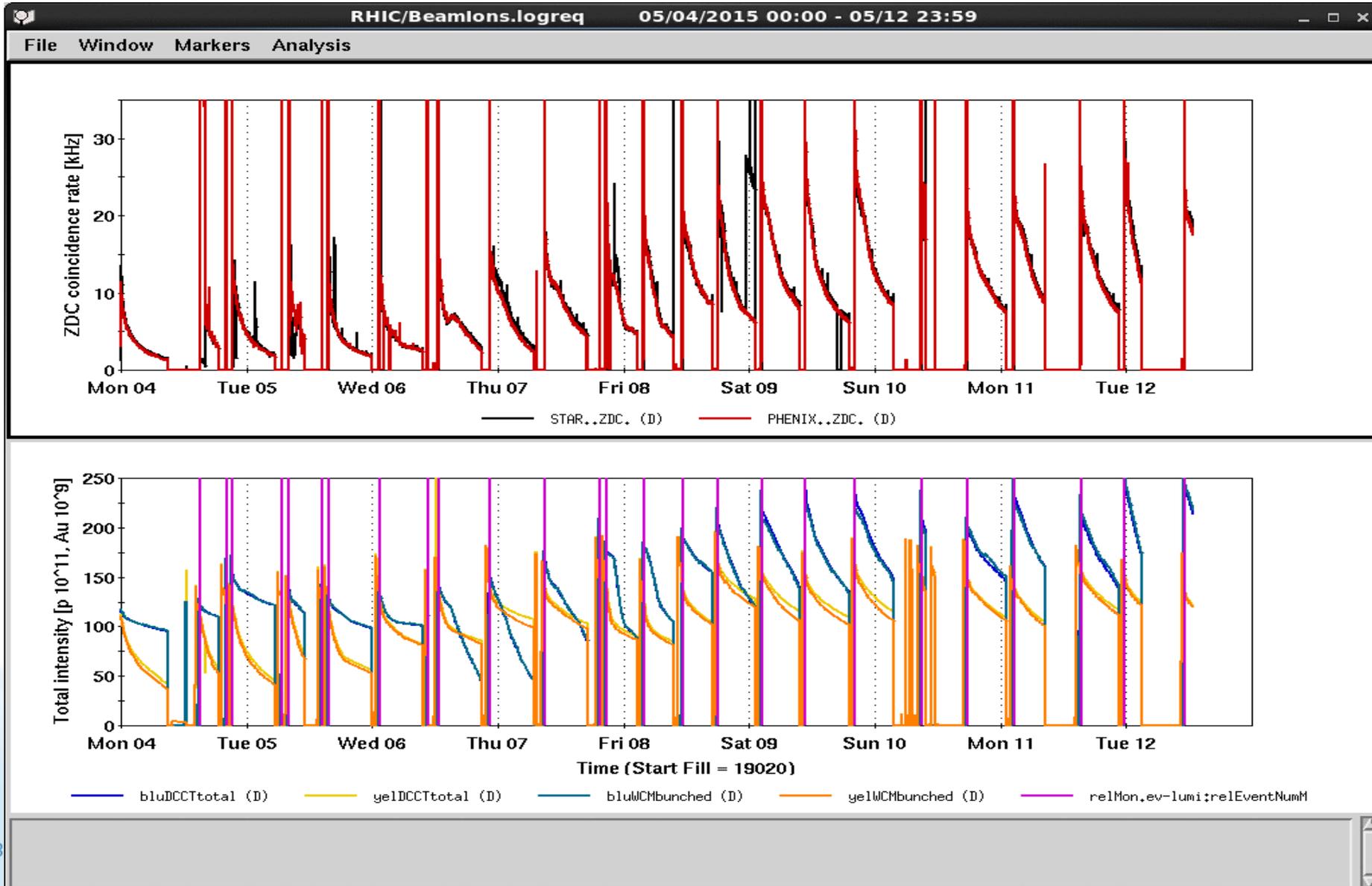
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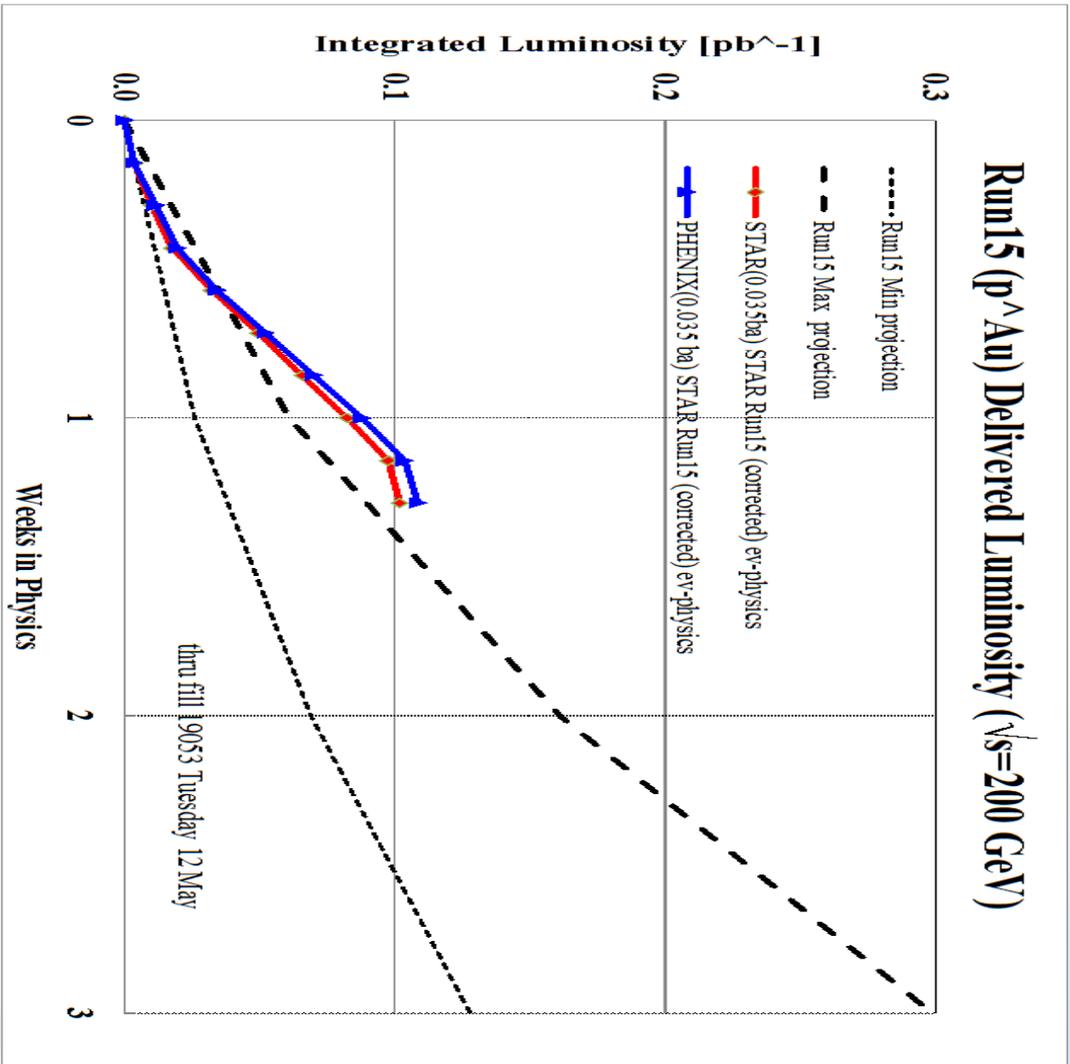
# RHIC status

- Longitudinal Stochastic cooling was setup on May 5<sup>th</sup>, horizontal cooling was setup on May 6<sup>th</sup>.
- Turn-around time between dump and collision is about 1 hr.
- Store length is 7 hrs. Adjustment is under discussion.
- Proton intensity is  $\sim 2.3E11$  ppb, could be higher with expense of lower polarization. Need more statistics to optimize FOM.
- Au intensity is  $\sim 1.5E9$  ppb.

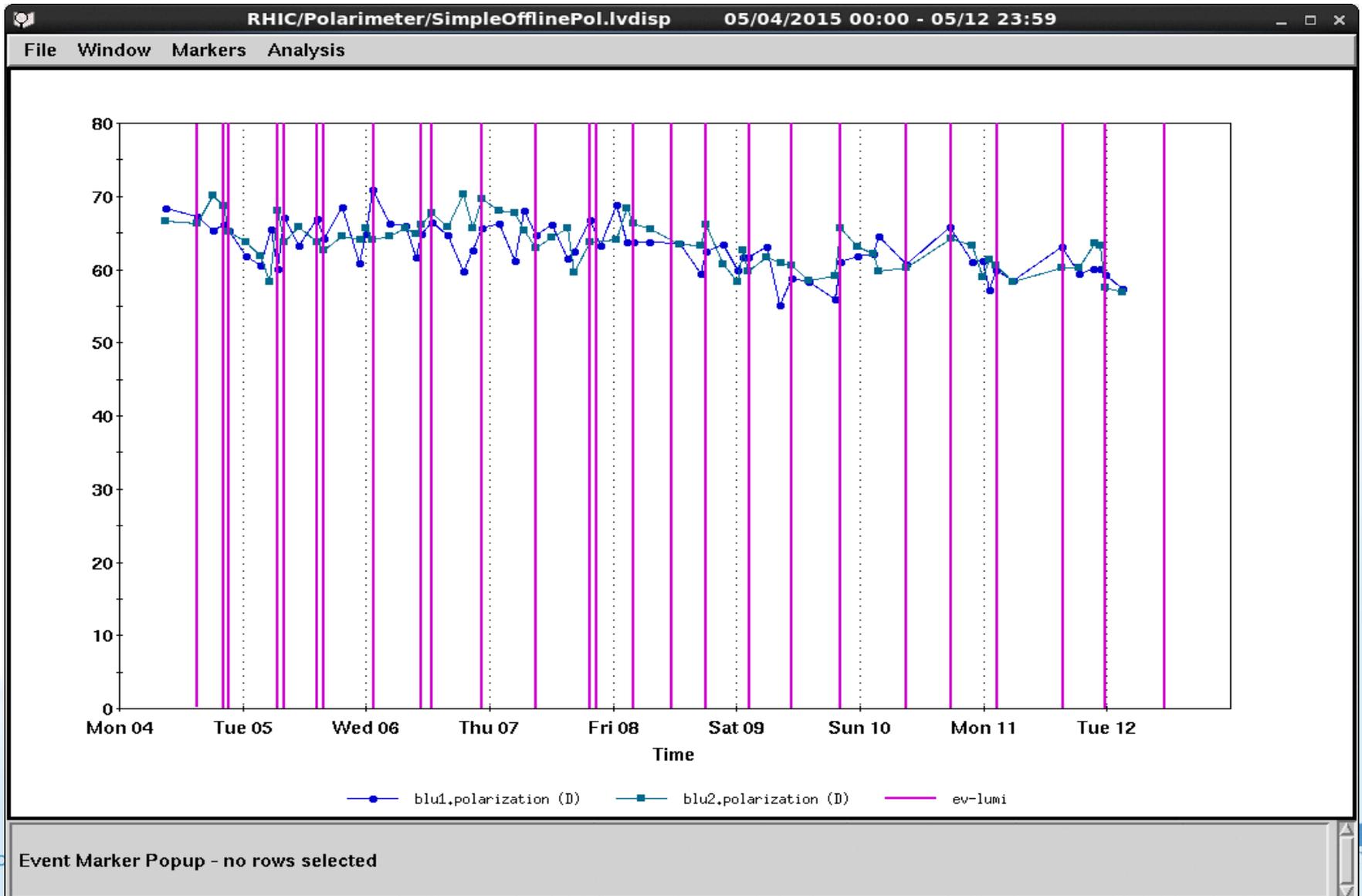
# Collision rate



# Luminosity



# Polarization



# Plan of the week

- Maintenance on Wednesday, May 13.
- 2 hrs machine development on Thursday, May 14.