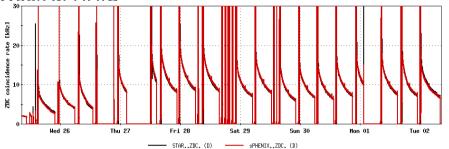
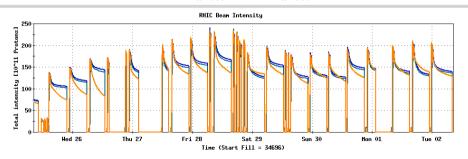


### Last Week at RHIC

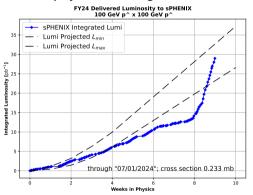


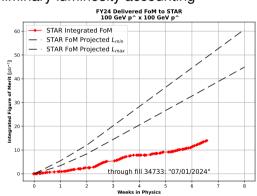




## RHIC status and Lumi Projections

#### 111x111 physics running since 4/30. Preliminary luminosity accounting





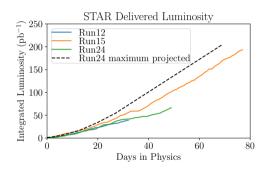


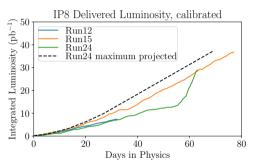
#### **RHIC Status**

- STAR and sPHENIX operating with 0 mrad crossing angles
- Intensity up to 2.0e11 at store, currently operating with 1.7-1.8e11 at injection
- Delivered polarization is 50-60% with improvements made to yellow polarization lifetime (reported last week) by separating Qv from 7/10 snake resonance.
- June 25 Machine Development successfully tested a seperate storage ramp to collapse IP6 and IP8 independently. Machinery has been further refined with additional MD tomorrow
- Power dip on June 27
- 2x lead flow trips in alcove 10c due to bad current driver board on June 26+27



# Comparison with previous runs

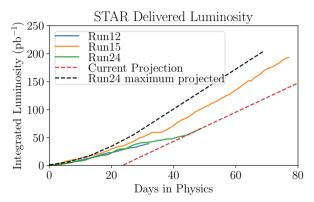




- Run15 and Run12 scaled based off of nominal emittances and calculated crossing angle
- IP8 goal scaled based off expectation of a crossing angle. Current increase from head-on is skews the current performance



### RHIC Performance Outlook



- Current projection corresponds to 18.3  ${
  m pb}^{-1}$  delivered/week where  $L_{max}, L_{min}$  =25, 17.0  ${
  m pb}^{-1}$ /week
- $\bullet$  Exceeding 18.3  $\rm pb^{-1}$ /week will require one IR operating with a crossing angle, beta-squeezing, or the implementation of Lumi sharing

