

2024 4 15



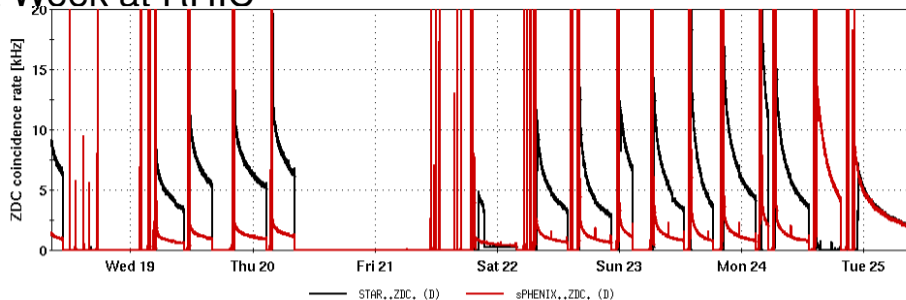
## RHIC Status

Kiel Hock

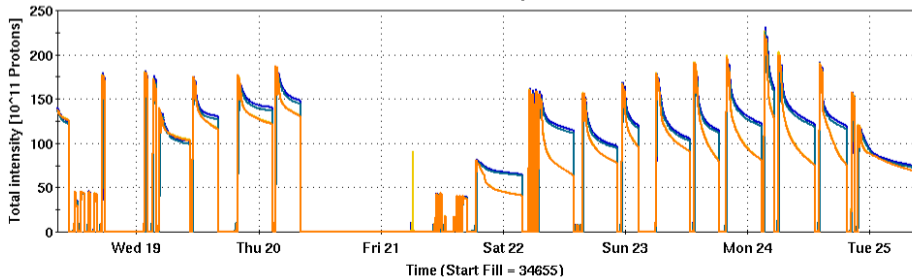
Time Meeting  
June 25, 2024



# Last Week at RHIC

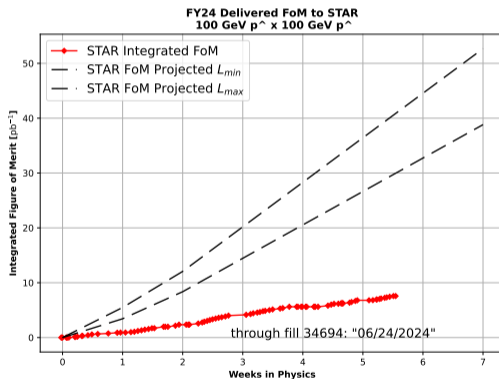
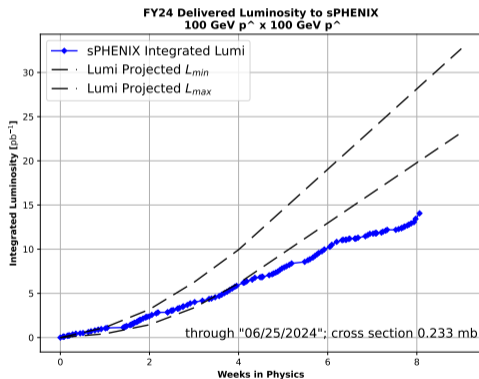


RHIC Beam Intensity



# RHIC status and Lumi Projections

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



# RHIC Status

- MD on 6/18, 6/21, and 6/25
  - ▶ MD on 6/18 unsuccessful, conferred with AI for recommendations following MD
  - ▶ 6/21 developed ramp with polarity swap. Updated optics for magnet transfer functions to what was used in Run15.
  - ▶ MD today to revisit MD on 6/18
- IR8 DH0 polarity swapped on 6/20 Maintenance day to support 0→2 mrad crossing angle
  - ▶ dedicated run with sPHENIX at 0 mrad on 5/24
  - ▶ sPHENIX and STAR at 0 mrad following dedicated run
- Power dip during maintenance day resulted in a prolonged recovery
  - ▶ BA1 QEI replacement
  - ▶ YA2 QEI error, found tripped breaker to reset
  - ▶ yellow injection kicker comm error, DG645 reset
  - ▶ yi11-tq5 replaced
- yellow polarization lifetime poor due to Qv near 7/10, ongoing optimization
- With optics change, in a better position to deliver higher luminosity with equivalent intensity
- This is a new setup so need to iterate on tunes to optimize beam lifetime and polarization lifetime at store