

2024 4 15



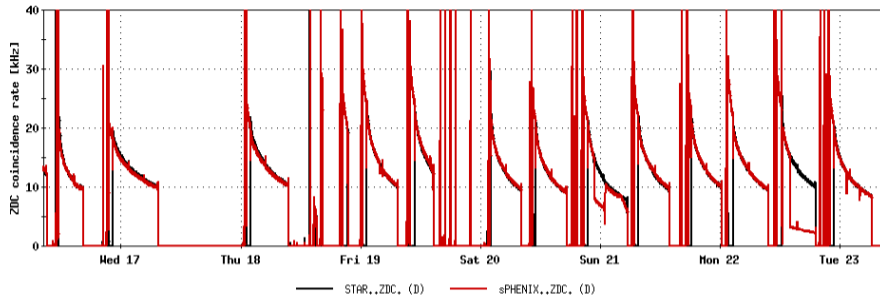
RHIC Status

Kiel Hock

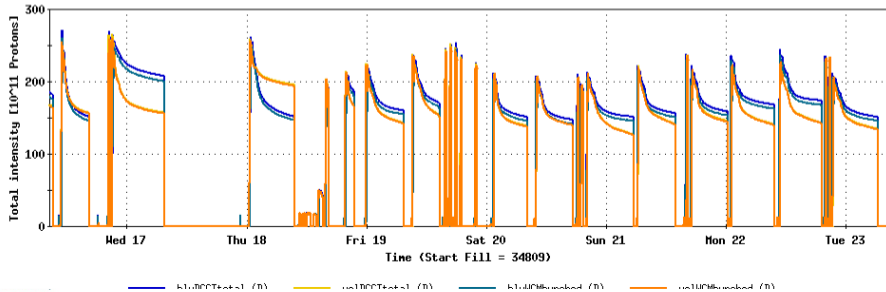
Time Meeting
July 23, 2024



Last Week at RHIC

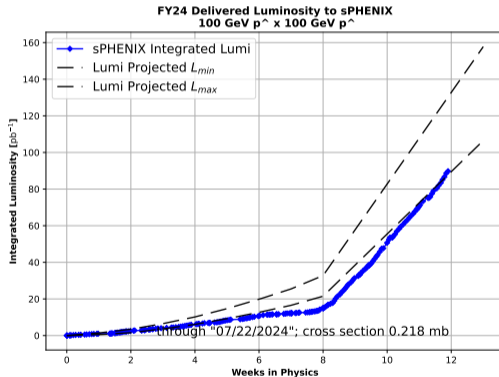
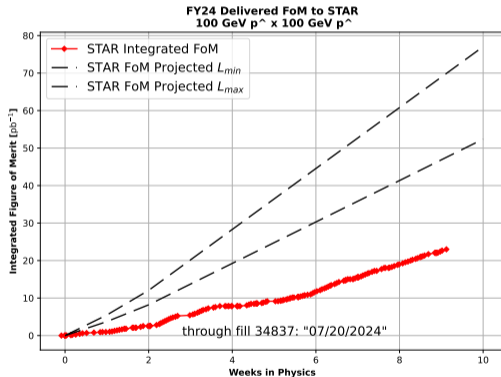


RHIC Bean Intensity



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
- sPHENIX did a brief test with 1.5 mrad
- Delivered intensity up to $2.4e11$ at physics, lower on recent stores.
 - ▶ Currently limited by losses at rebucketing
- Delivered polarization is up to 50-65%
- STAR and sPHENIX being collapsed at separate times since July 5th
- STAR being collapsed when beam-beam parameter is at or below $10e-3$ with a minimum wait time of 40 minutes if the beam beam parameter is above that threshold at the beginning of store.
- Instabilities early last week coming into collisions prompted machine development on Thursday which found negative chromaticity at collisions.
- Several severe weather standowns recovering from Maintenance day delayed returning to Physics.