

2024 4 15



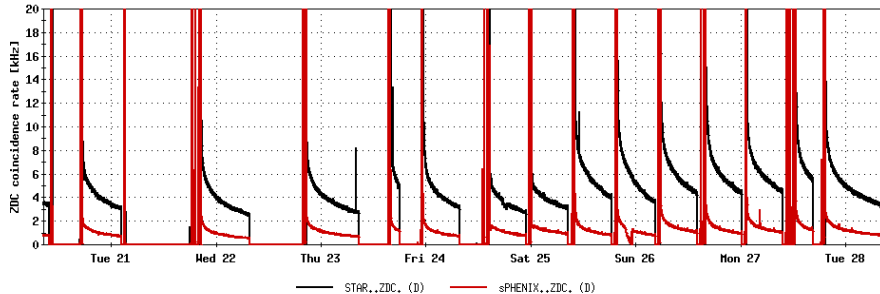
RHIC Status

Kiel Hock

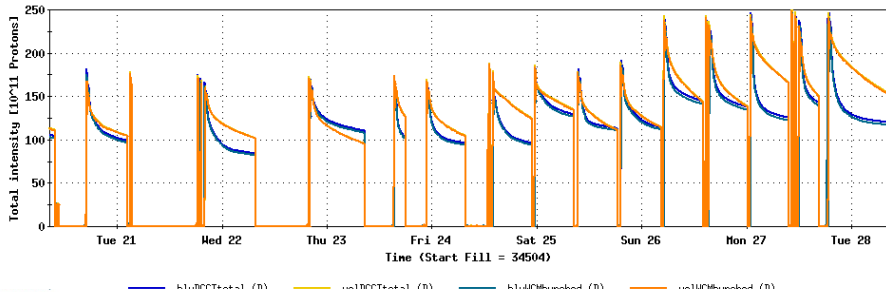
Time Meeting
May 28, 2024



Last Week at RHIC



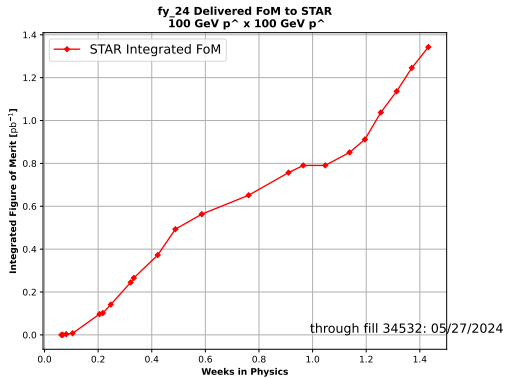
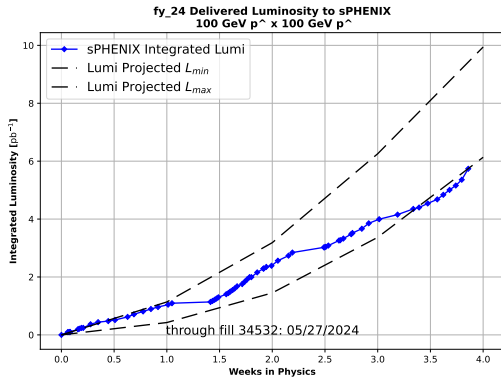
RHIC Beam Intensity



RHIC status and Lumi Projections

→ 111x111 physics running since 4/30.

Preliminary luminosity accounting



RHIC Status

- Rotator ramp implemented for STAR on 5/17, used since 5/20
 - Current scans lead to QLIs due to proximity of currents to upper limit
 - Final solution arrived from taking Run15 longitudinal settings and extrapolating them to transverse used since 5/24
- IR12 DX magnet needed a QPA and Regulator Card swap on 5/21
- Physics ran with reduced number of bunches for ecloud suppression (going theory at the time) but suppressed the HOM excitation in the 56 MHz SRF cavity.
 - Implemented 68x68, 74x74, 78x78, 84x84 fill patterns with specific bunch spacing to mitigate ecloud
 - FPC inserted which lead coupling of HOMs to FMs and lower emittance growth on ramp
- Maintenance day on 5/22
- APEX this week rescheduled for next week.