

2024 4 15



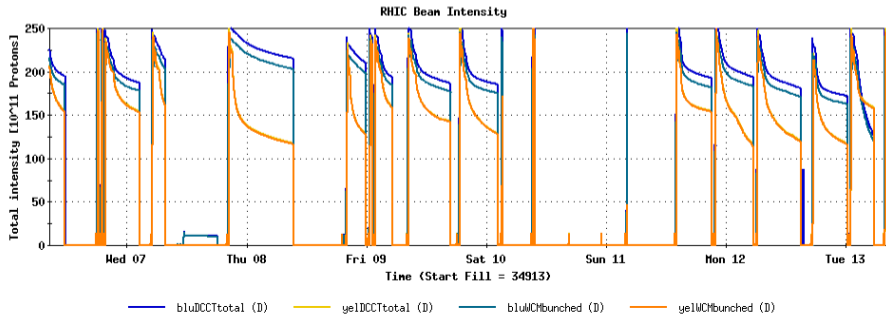
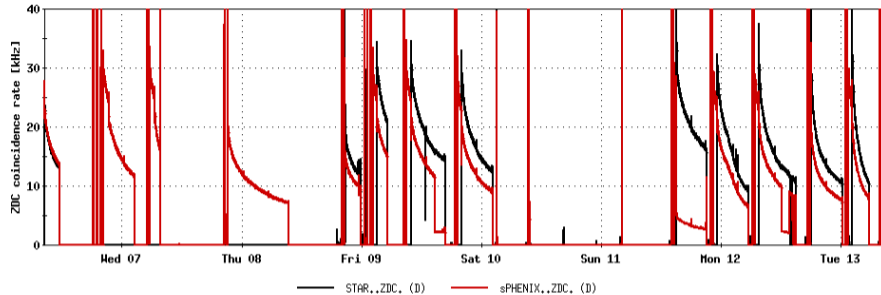
RHIC Status

Kiel Hock

Time Meeting
August 13, 2024

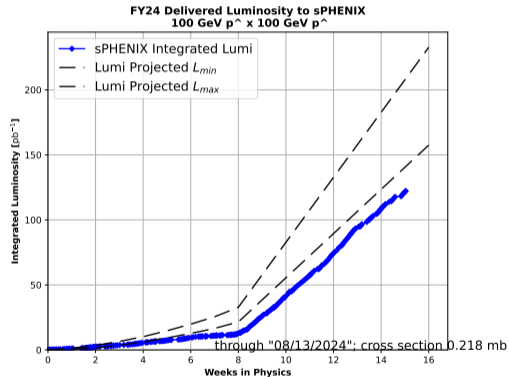
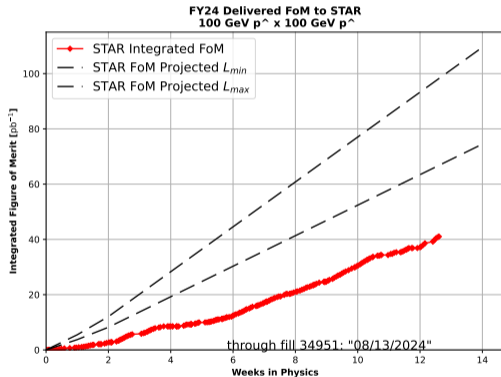


Last Week at RHIC



RHIC status and Lumi Projections

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



Singles correction reinstated into analysis.

RHIC Status

- Delivered intensity up to 2.3×10^{11} at physics.
- Power dip on 8/6
 - ▶ STAR ZDCs TCIM logic board failed and was replaced during Maintenance period on 8/8
- Supported sPHENIX TPC commissioning
 - ▶ 4 hour access on 8/6 to adjust resistance on TPC GEM modules
 - ▶ 8 hour access on 8/8 for additional resistance adjustments
 - ▶ 4 hour no beam time on 8/11 to update firmware for zero suppression (behind RHIC PS failure)
- DX training on 8/8: IP6 still needs 0 mrad and then +30 A for IP6, IP8 and IP4. Training quench of IP4 DX.
- ^3He APEX on 8/7.
- RHIC PS issues starting on 8/10 stemming from AC issues at 1004B
 - ▶ 0142 MCR contacted CAS about cooling in 1004B
 - ▶ 0312 Blue QLI requiring a circuit breaker to be thrown to solve the hanging current readback of the Blue mains
 - ▶ 0615 During hysteresis ramp b8-dhx-ps crowbarred resulting in QLI. Contactors cleaned and recovered at 0850.
 - ▶ 0946 b4-dhx-ps under investigation for QLI. Replaced: 3 channel Iso Amp board, contactors, relays, current regulator card and ZFCT card (last two being the final solution). Recovered at 1300 on 8/11.
 - ▶ 1218 AC at 1004B repaired
- Lead flows at 1002 due to comm fault on node cards.