

2024 4 15



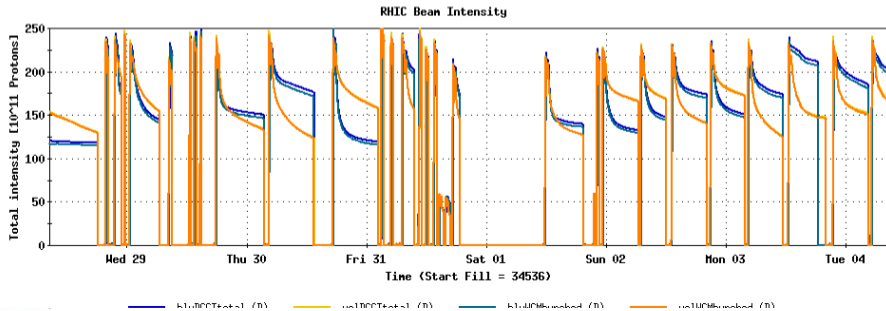
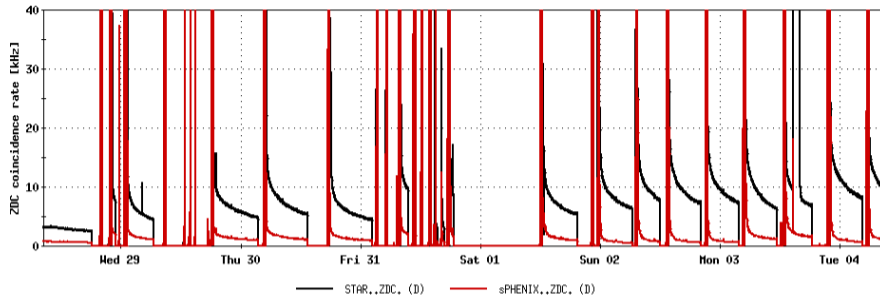
# RHIC Status

Kiel Hock

Time Meeting  
June 4, 2024



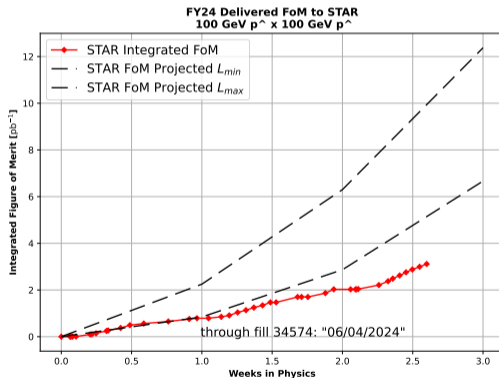
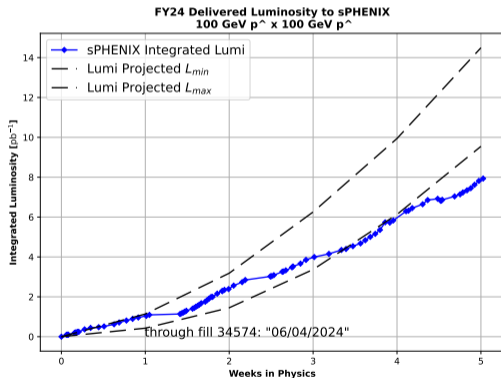
# Last Week at RHIC



# RHIC status and Lumi Projections

→ 111x111 physics running since 4/30.

## Preliminary luminosity accounting



# RHIC Status

- physics running with  $2.1 \times 10^{11}$ /bunch at store
- we are now at the end of the "ramp up" period so luminosity projections are constant
- integrated luminosity still a factor of 2 off from best Run15 stores
- polarization up into the 50-60%, higher in yellow
  - take spin tune measurement in blue to check snake rotations
- Machine development Wednesday improved emittance growth along the energy ramp
  - Inserted 56 MHz FPC more to further damp HOMs
  - adjusted octupole strengths along ramp and further optimized lifetime
- bug with feedback editor and implementation with feedbacks
- power dip Friday due to vehicle accident at Bellport
- cold snake has increase heat load
- Maintenance tomorrow, 6/5
- APEX Thursday, 6/6