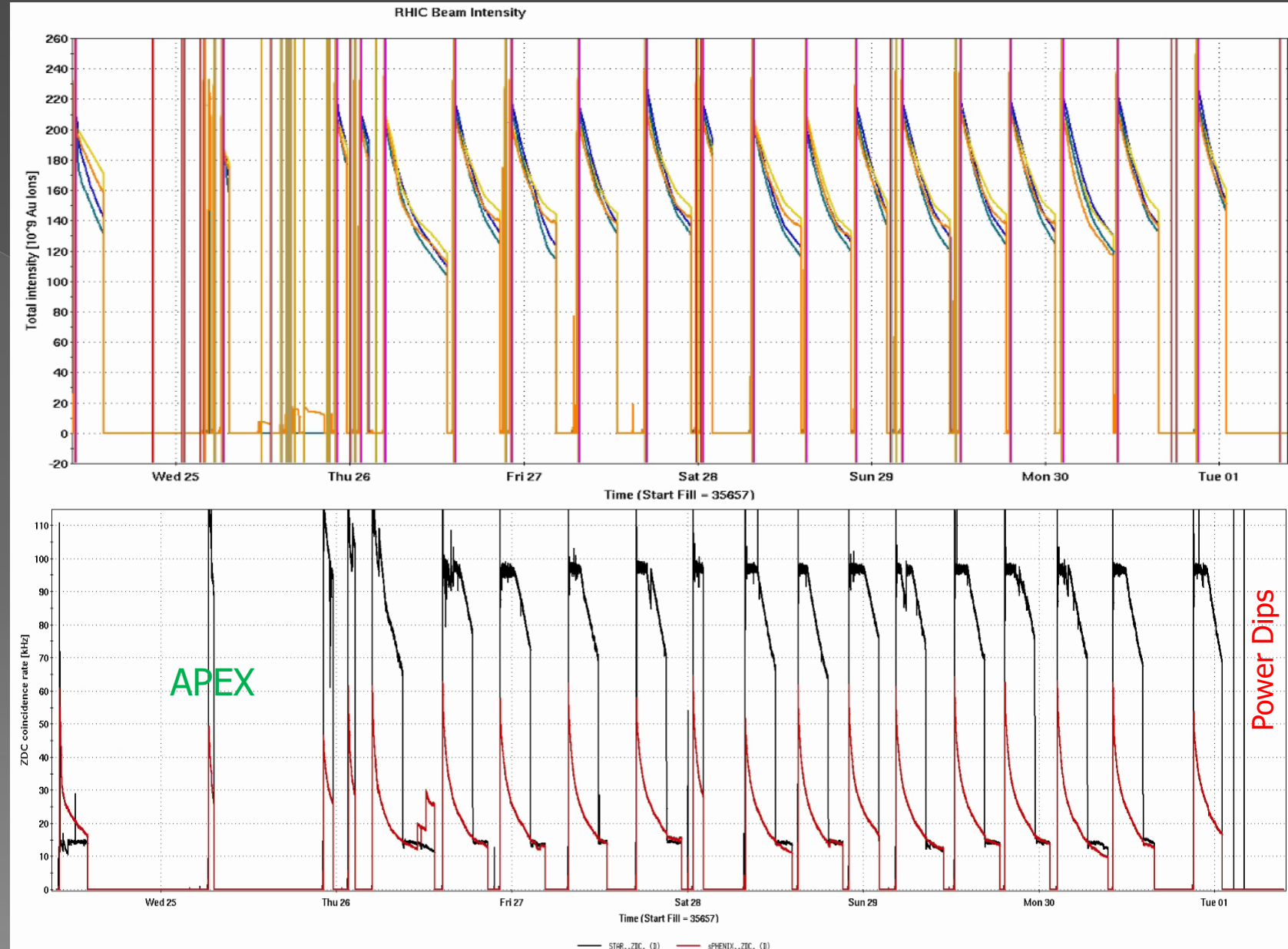




# Physics

- RHIC is running very well
  - > We have surpassed Run16 start of store performance
  - > Ramp efficiency is very high
- Averaging  $1.95e9/\text{bunch}$  at physics on
- STAR @ 0mrad and 85kHz leveling for the first 4 hours, 1mrad and 13kHz leveling for the last 2
- sPHENIX 1mrad
- Successful APEX
  - > Beam setup to 31 GeV, handoff mechanism set up to 100 GeV ramp, ramped to full energy
  - > Cooling done at 31 GeV to a 6:1 emittance ratio
  - > Next APEX will continue and ramp that flat beam to 100 GeV



# Moving ahead

- More intensity in does not result in higher rates
  - Focus is on reducing fill times with injector merge schemes and fast store turnaround
- Maintenance Day Wednesday
- PHYSICS

