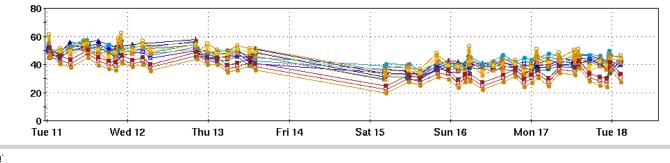
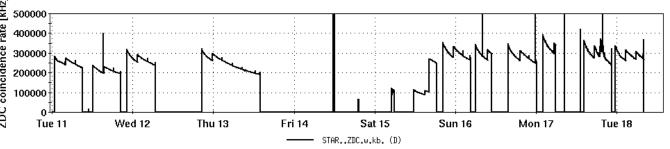
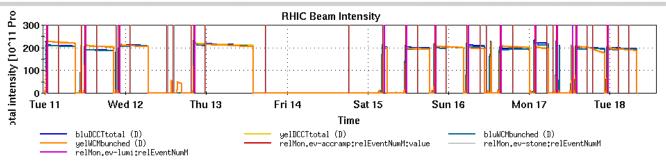
RHIC Run 22 Run Status

1/18/2022

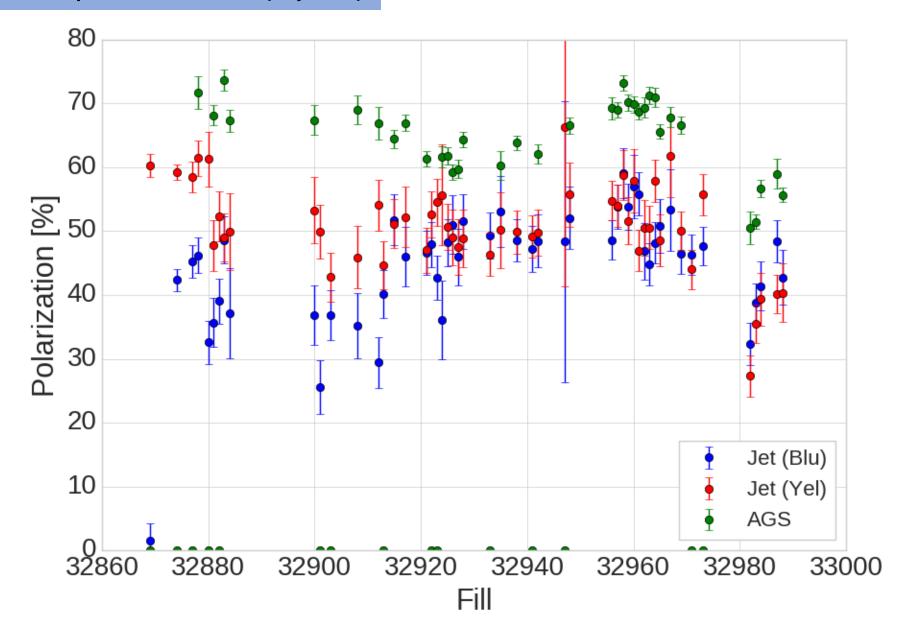
- AGS Siemens motor generator failed evening Wed Jan 12
 - Investigation of the extent of the equipment damage continues
 - Switch to Westinghouse motor generator
 - Beam back at AGS extraction evening of Jan 14, RHIC stores back by morning of Jan 15.
 - Factor of 2 slower ramp rate
- Polarization with Westinghouse:
 - AGS 56%, without tune jump quads
 - At 2.2 x 10¹¹ per bunch
 - RHIC: low 40%'s
- Rotator based check of stable spin direction at STAR planned for Thursday.



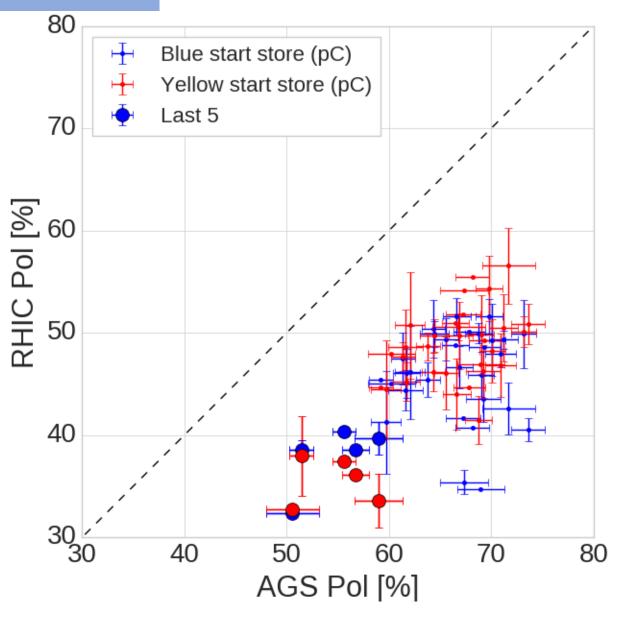




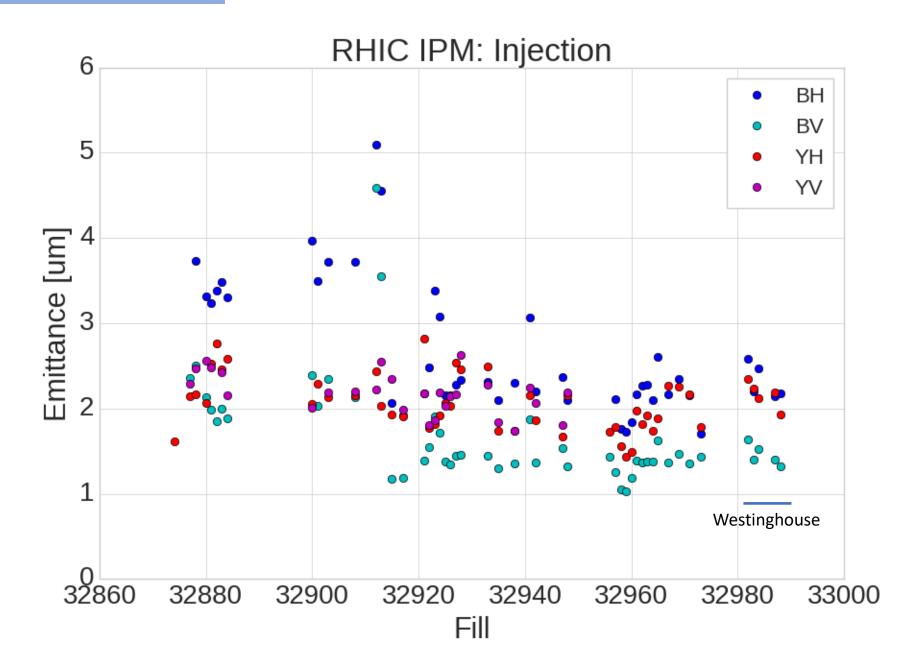
RHIC and AGS polarization (by fill)



RHIC and AGS polarization



RHIC Injection emittance



Assessment and plans

- Westinghouse last used for pol. protons in Run 13
 - At the time 2-3% relative drop in polarization at 1x10¹¹
 - Jump quads *more* important at lower acceleration rate
 - Relative gain factor for polarization 1.15 instead of 1.1
 - Needs power supply work to accommodate long function
 - Priority is to get good jump quad functioning today
- Activities for polarization development
 - Test ramp without tune meter excitation (todyay emittance improvement? Polarization?)
 - Ramp orbit imperfection tests (RHIC polarization transmission)
- Still need to do other tasks (in addition to polarization recovery):
 - Rotator check of STAR spin direction (tomorrow, Wed 1/19)
 - AGS Au setup (Friday 1/21, 0800-2000)
 - Low luminosity stores for STAR calibrations (tentatively this weekend).