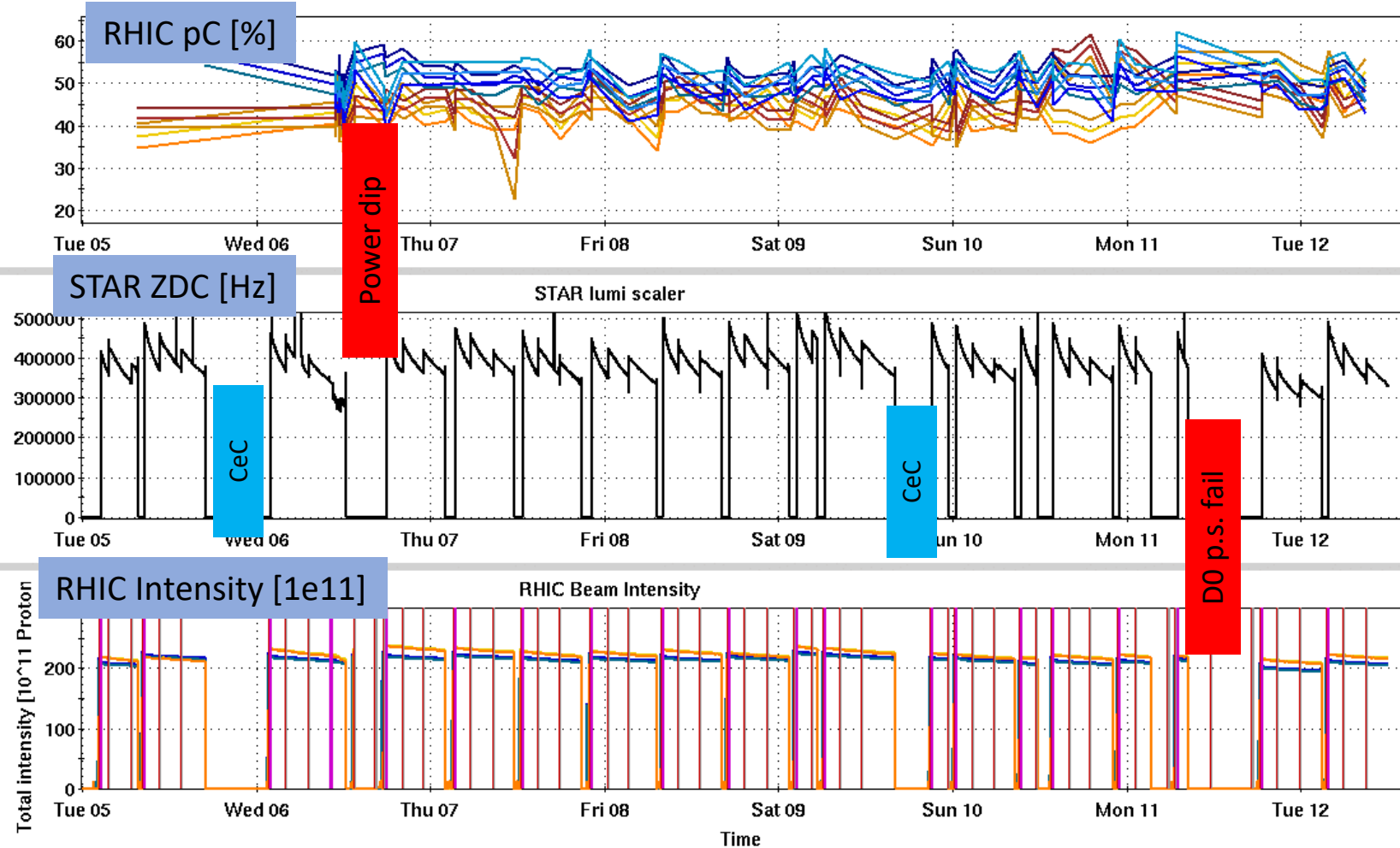


RHIC Run 22 Run Status

4/12/2022, V. Schoefer

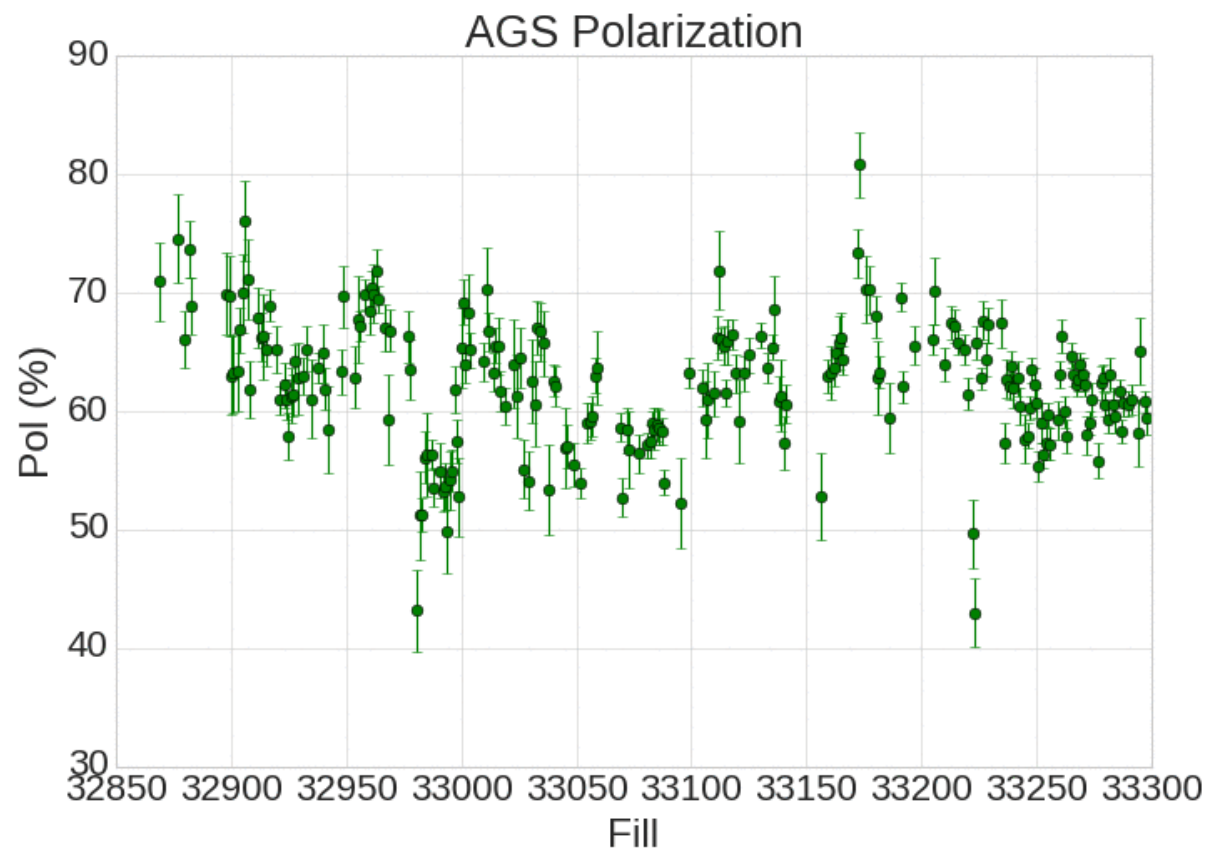
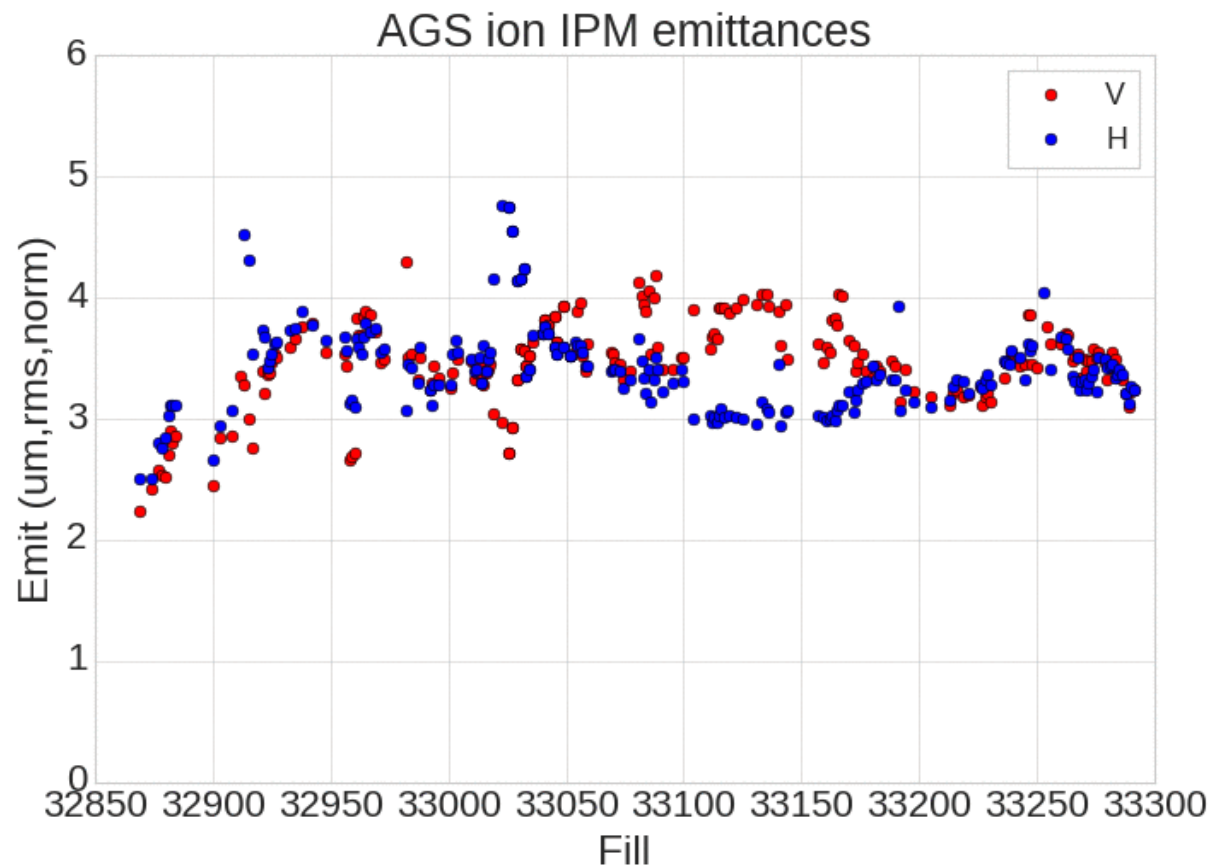
- Generally good uptime. Major interruptions:
 - Power dip 3/6
 - IR10 D0 supply
 - QLI aborted two stores
 - DX heaters fired (at IP4?)
 - Snakes near DX heater also quench
- AGS intensity now between 2.1-2.2e11 to meet average lumi goals (with 1.86 mb cross section)
 - 5% lower than previous week



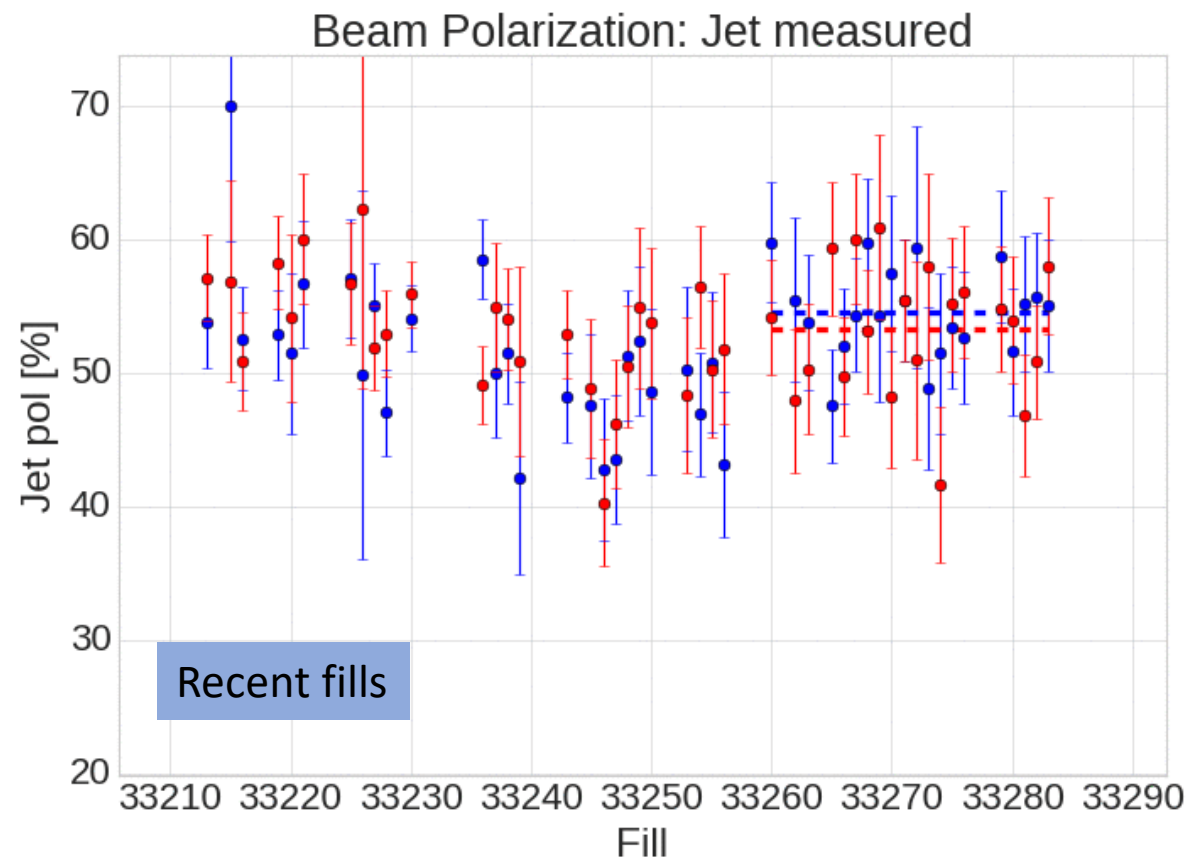
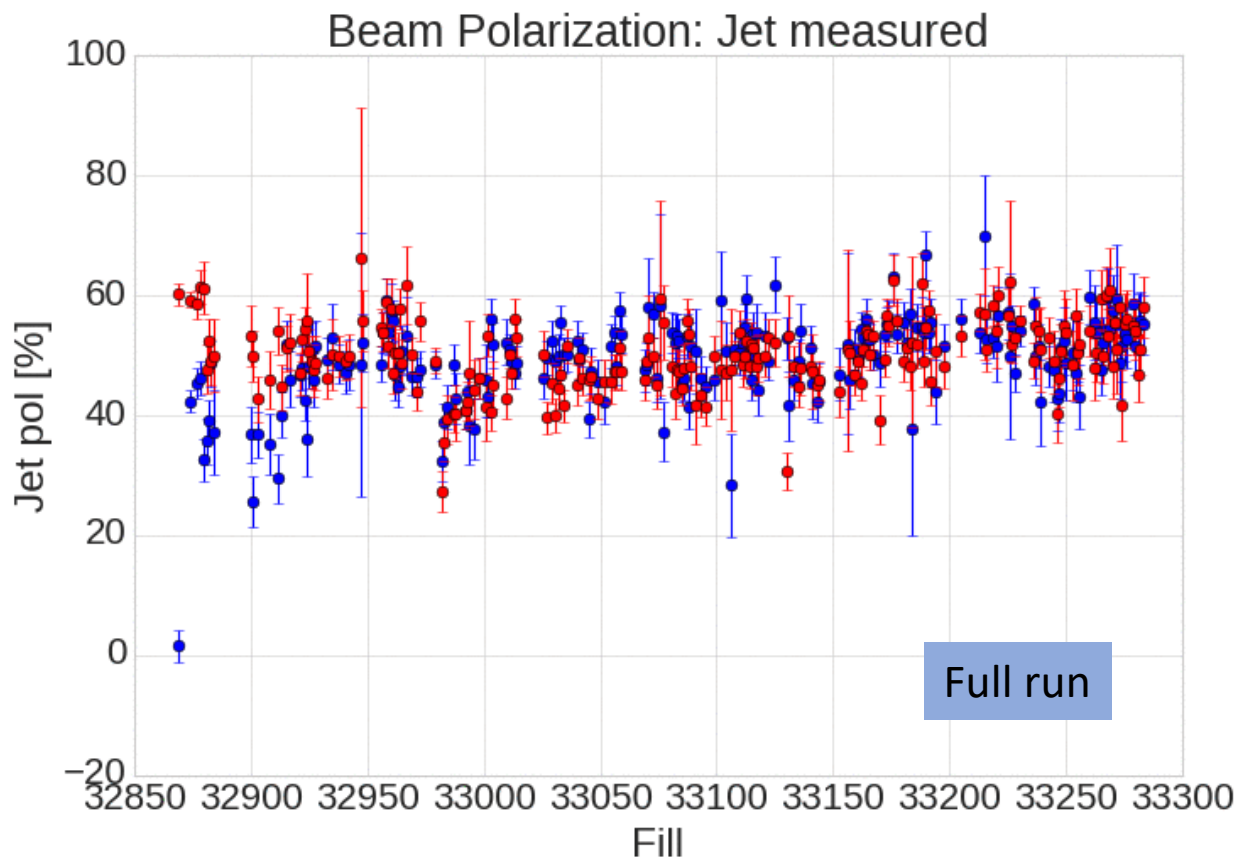
AGS Emittance and Polarization

AGS emittances as good as previous optimum

AGS masured polarization till in low 60's: some suspicion that this is instrumental, given high downstream RHIC numbers



RHIC Polarization



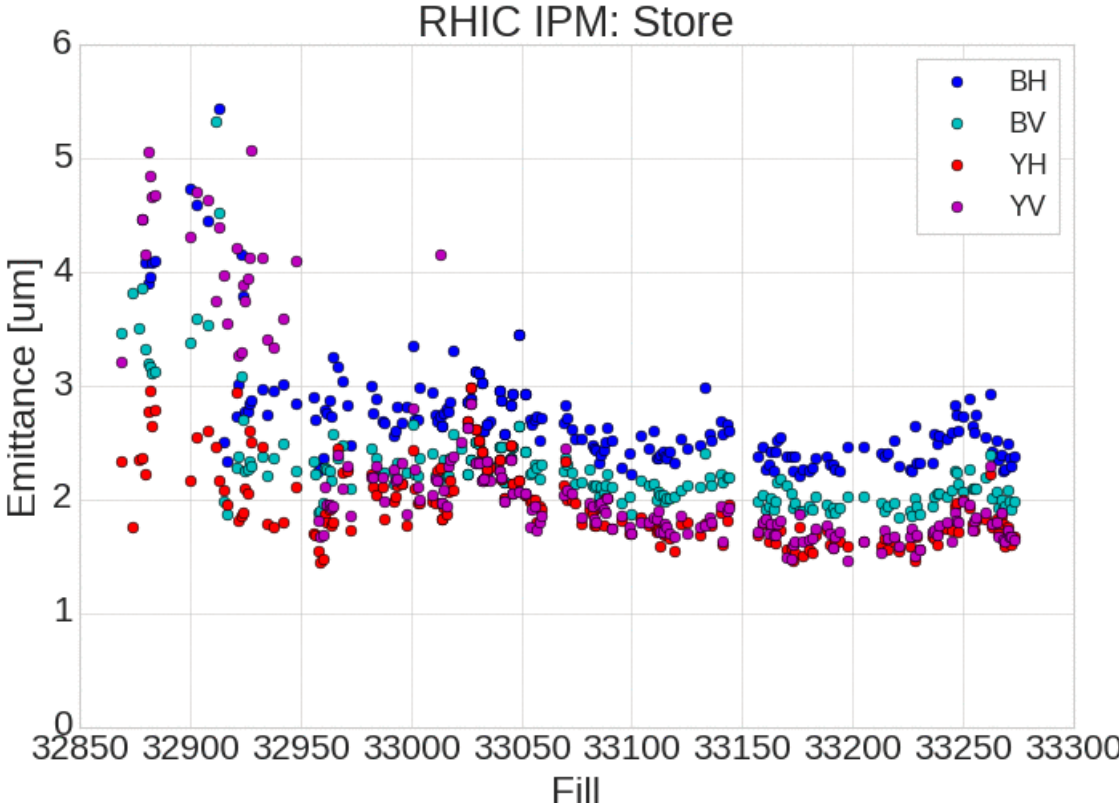
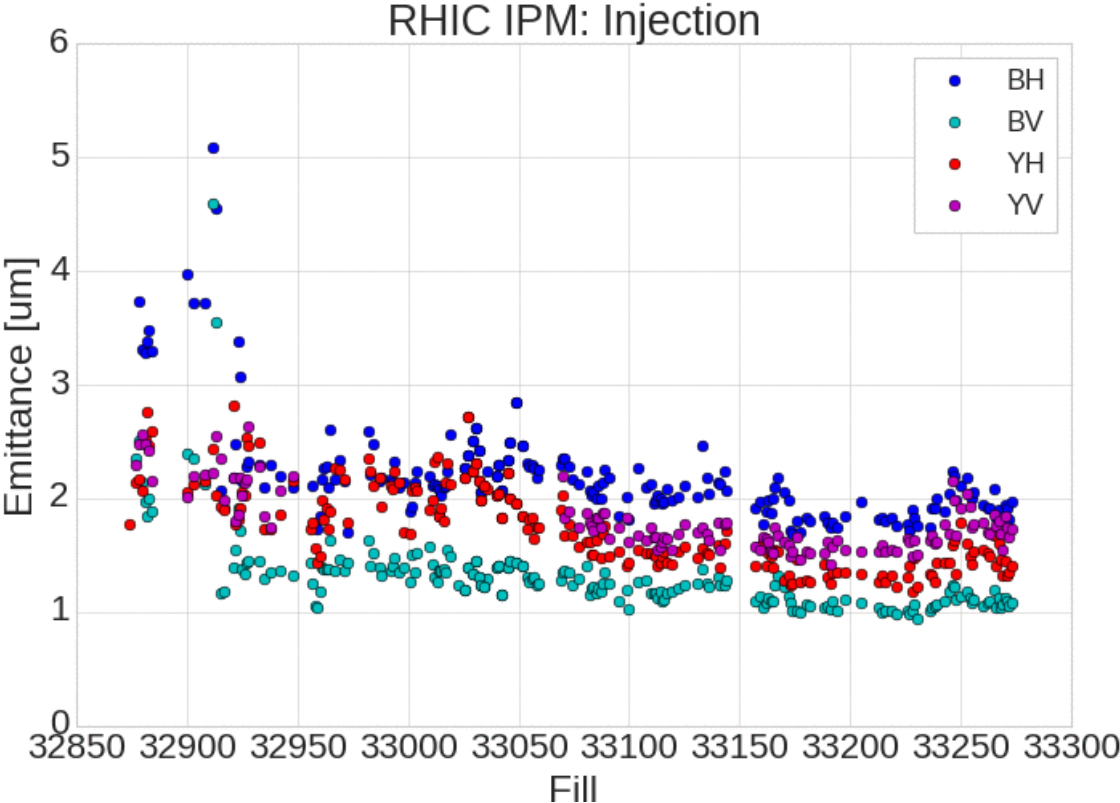
Averages since injector work last week (fill >33260):

Blue 54.5%

Yellow 53.5%

RHIC Emittance

- Close to previous optimum
- Helped by taking less intensity from AGS



Plans

- As much physics as possible
 - 6 days remain in run
 - 16 hours for APEX
 - Accommodate remaining CeC requests for time
- Two hour end-of-store measurement provisionally planned to repeat pC spin direction measurement.

Wolfram's Tale of Woe

The RHIC Run will end on 18 April 2022. It was a Run with many unusual events including AGS cable tray damage, AGS coil replacements, a vacuum leak in the IR7 triplet, a stuck BtA vacuum valve, a delay in the cryo controls upgrade, an 86 second long site-wide power outage – after which we found a superconducting helical magnet in Blue snake damaged, a second helical magnet was found damaged after another power dip, and a new heating phenomenon of brushes at the Siemens motor generator that prevented us from using the Siemens for a few weeks. This year's RHIC Retreat on 24 May 2022 will have no shortage of topics. Through all of this, and in close coordination with STAR, we are still coming close to the run goal ~~(83% achieved with 10 days to go)~~.

Particle Post, Mar 2022

90% as of Monday morning

.....and that's just a partial list....

Thanks to everyone at CAD (and Magnet Division!) for making this ~~impossible exhausting ridiculous maddening~~ remarkable run as successful as it was!





Run Planning



Run Doing

Thanks!