

STAR Status - 1/13

- **Schedule**
 - Fixed target run: Jan 24 (8 AM) – Jan 31 (8 AM) : 4 days at 4.5 GeV and 2.5 days at 4.2 GeV
- **FXT beam**
 - 24 bunches in Yellow (optimal in-bunch, out-of-bunch pile-ups)
 - Steer the beam to keep the Min-bias rate 8-10K to maximize DAQ rate (~4.5K Hz) and minimize the pile-up
 - Rates and online tracking will be sent to CAD to control the beam orbit
 - 4.5 GeV
 - At injection energy 9.8 GeV
 - No set-up time required
 - 4.2 GeV
 - At beam energy ran in Run21 in collider mode (8.65 GeV+8.65 GeV)
 - Beam set-up time: ~ ½ day?
- **STAR readiness**
 - **Magnet needs to be at Full Field**
 - Tested yesterday: stable for 1.5 hrs at full field with tower cooling (one fan)
 - Need a test tomorrow at warmer outside temperature and to leave it at full field for one store
 - CAS and STAR will monitor the magnet temperature closely; IF it increases, ramp down to half field well before the trip limit (ramping full to half field: 7 mins)
 - Backup: a rental chiller (in progress)
 - Installation would take 1-2 days without interrupting magnet cooling at half field
 - Other subsystems are ready – No issues. Commissioning on-going.