

STAR Status: 3/11/25

- STAR shift starts today (3/11)
 - 3/11-3/24: 2-person shift
 - From 3/25: Full shift (3+1 person)
- Flammable gas flow: Blue sheets signed today; flow starts tomorrow
- MAGNET final test ramp: today
- EPD, BBC installation Wednesday, Thursday; All detectors will be in place
- Cosmic data taking: Starts Friday
- Physics readiness: ~1 day for timing and trigger detector calibration
- Physics run start with: Au+Au Min-Bias
- **7/1-8/11: STAR shutdown**

Run25 Beam Request

$\sqrt{s_{\text{NN}}}$ (GeV)	Species	Number Events/ Sampled Luminosity	Year
200	Au+Au	8B+ 5B / $1.2 \text{ nb}^{-1} + \mathbf{20.8 \text{ nb}^{-1}}$	2023+2024+ 2025 (20 cryo-weeks)
200	Au+Au	8B+ 9B / $1.2 \text{ nb}^{-1} + \mathbf{28.6 \text{ nb}^{-1}}$	2023+2024+ 2025 (28 cryo-weeks)

- Completing Au+Au at 200 GeV program
- Requesting an extension beyond 28 weeks allowing 5 weeks of p+Au targeting 0.22 pb^{-1}
- Au+Au running mode:
 - High luminosity mode: for rare processes and high- p_{T} physics (0 crossing angle)
 - Min-bias mode: Controlled low luminosity for Min-Bias physics (1 mrad crossing angle + leveled luminosity at ZDC $\sim 13\text{kHz}$)
 - Mix two data taking modes depends on luminosity/beam condition to complete the goal
 - Mixed running mode across different stores and **within a store**