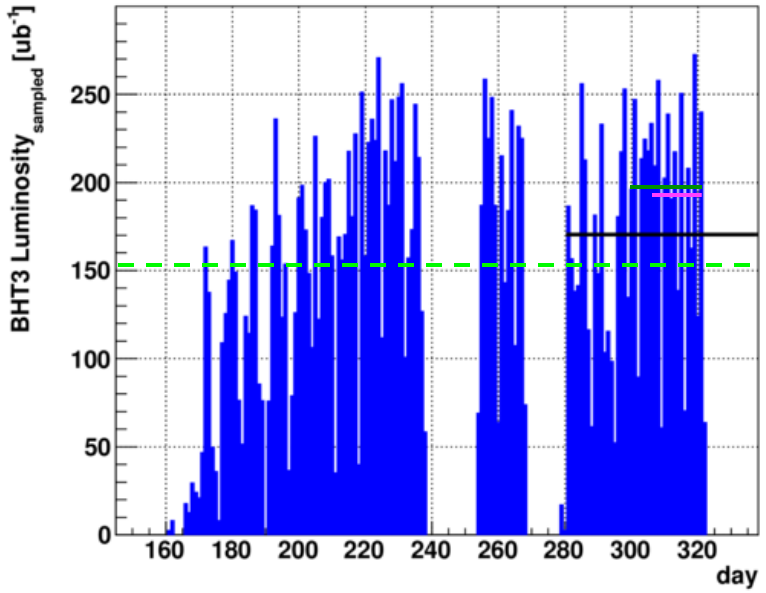
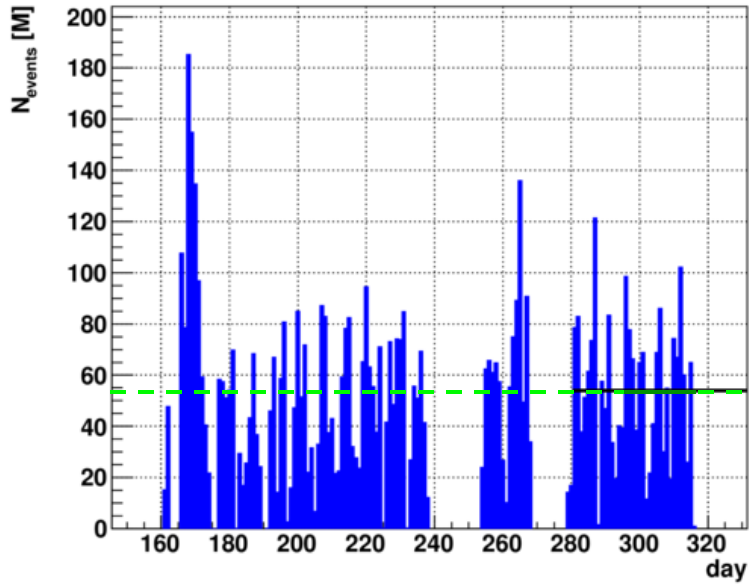
STAR Status – Nov 18

Hi-luminosity/High-p_T per day

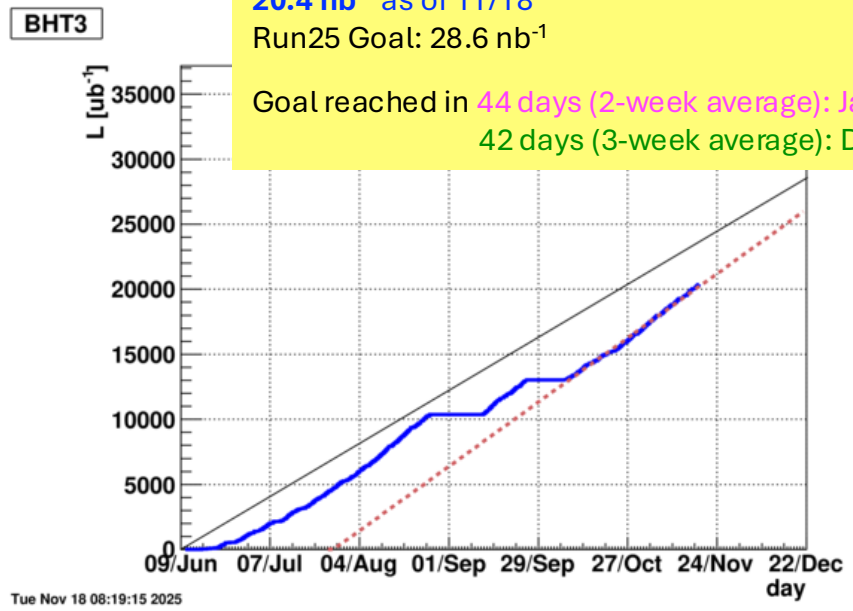


Min-bias per day



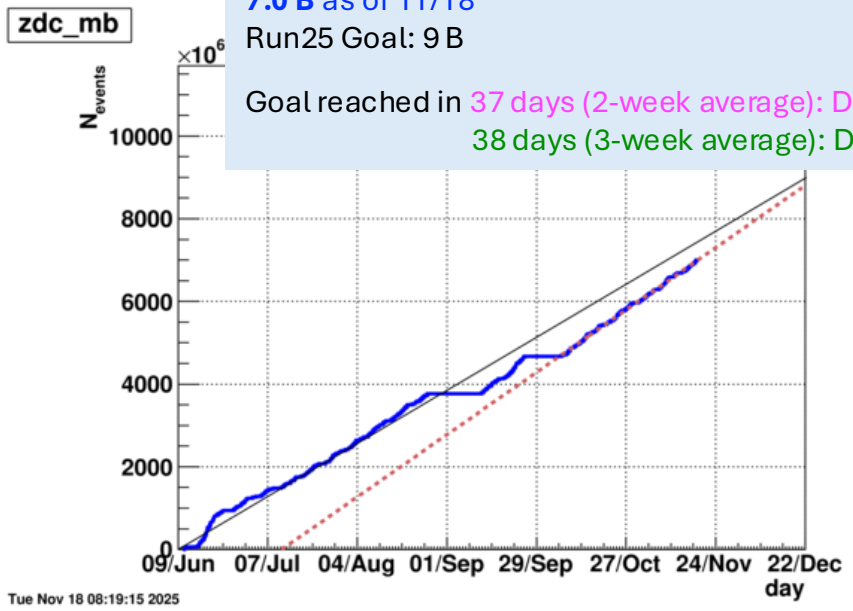
20.4 nb^{-1} as of 11/18
Run25 Goal: 28.6 nb^{-1}

Goal reached in 44 days (2-week average): Jan 1
42 days (3-week average): Dec 30



7.0 B as of 11/18
Run25 Goal: 9 B

Goal reached in 37 days (2-week average): Dec 25
38 days (3-week average): Dec 26



Au+Au and Next steps

- **Au+Au**
  - Will reach 85% (high-p_T), 90% (min-bias) of the Run25 goals by Dec 8
- **p+p**
  - We will not participate in the data taking
  - We have 164 pb^{-1} with radial polarization from Run24 (BUR Goal: 142 pb^{-1})
  - 4-5 weeks of physics (with vertical polarization) will add <15% statistics (~7% reduction in statistical uncertainty)
  - Separate calibration and analysis efforts are needed to combine the datasets
  - Reduced beam-beam effects with only one IR
- **Fixed target at $\sqrt{s}$= 4.5 GeV**
  - 3-5 days of data (~1B min-bias events) will have strong physics impact
  - Au in Yellow at injection energy with 12 bunches
  - Au target, detectors (including ETOF), triggers, and run configurations are ready
  - From an operations standpoint, the most efficient time is at the end of Au+Au running
  - No extra setup time required for beam or STAR
- **If fixed-target running is only possible after p+p:**
  - We will be on standby
  - Purge flammable gas
  - No shift
  - Can return to data taking within 2 days if the opportunity arises
  - Otherwise, proceed to shutdown