



# Run 25 Status RHIC Coordination

October 28<sup>th</sup>, 2025

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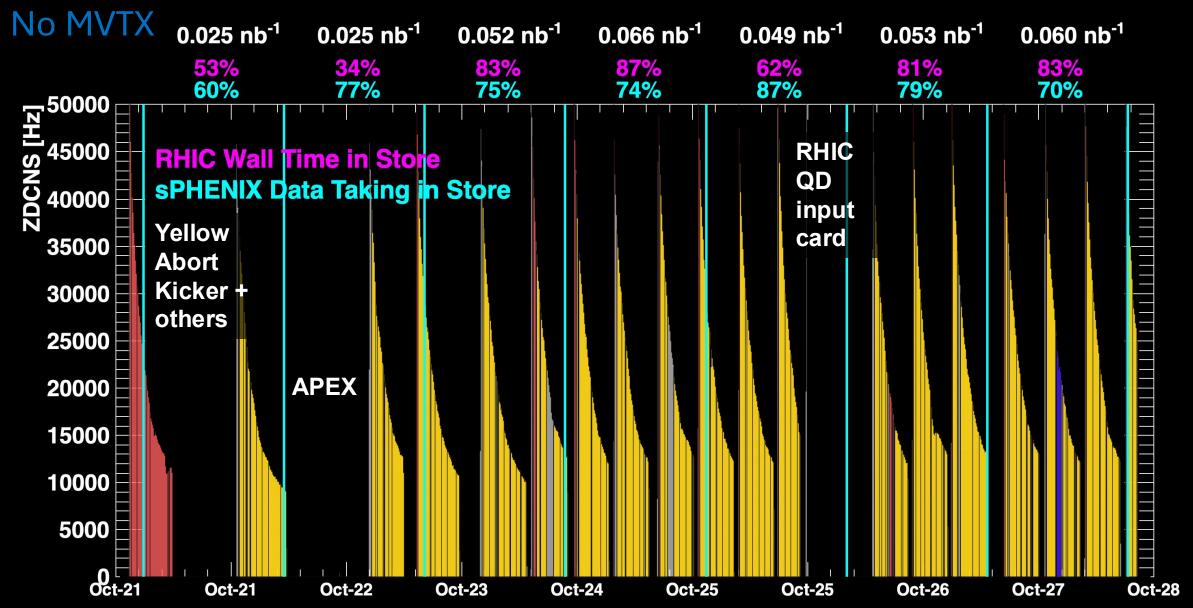


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UNC Greensboro
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## sPHENIX Wall Time

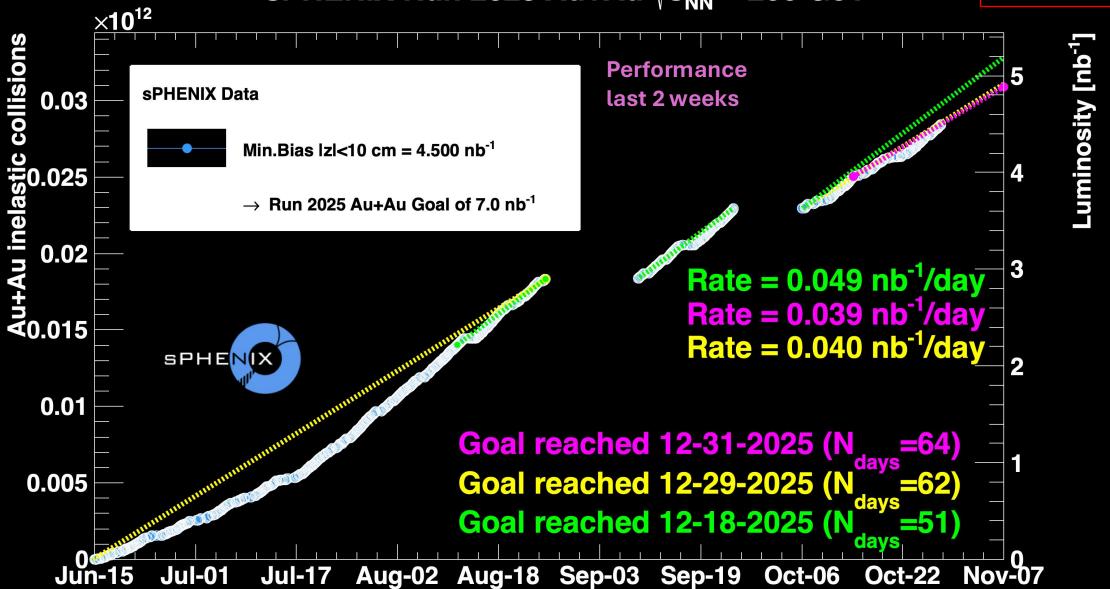


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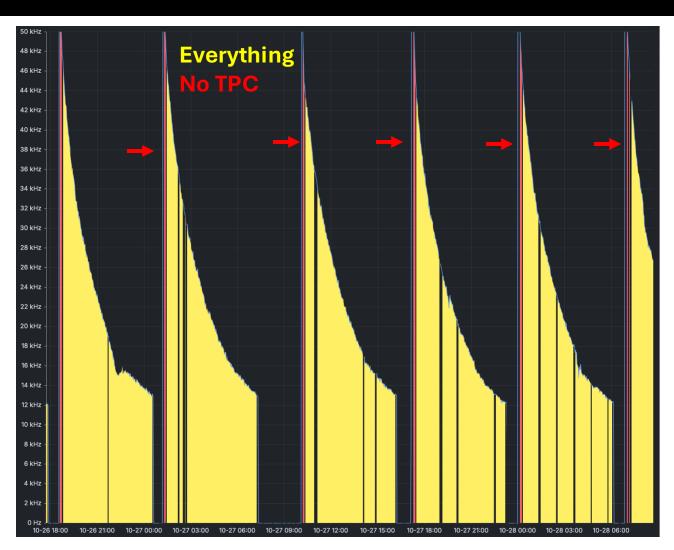
## **sPHENIX Luminosity**

sPHENIX Run 2025 Au+Au  $\sqrt{s_{NN}}$  = 200 GeV

64.3% of our Au+Au goal



# Operation w/10 Hz Gap Cleaning



For most fills the difference between Calo-physics-on and TPC-physics on was 2-5 mins, with ZDC ~50-60 kHz

#### TPC Turn on when ZDC < 55 kHZ

Time of Fill	∆t calo → TPC	ZDC Rate
10/26 12:23 AM	2 minutes	58 kHz
10/26 11:48 AM	3 minutes	54 kHz
10/26 6:32 PM	2 minutes	60 kHz
10/27 1:14 AM	2 minutes	56 kHz
10/27 10:11 AM	5 minutes	50 kHz

#### Less than 1% hit to uptime

So far all aborts since start-of-store 10 Hz gap cleaning have been more "gentle" to the TPC and no damage

### Conclusions

- We are at 64.3% of our Au+Au goal
  - 2 week rate is 0.039 nb<sup>-1</sup>, but improved to 0.047 nb<sup>-1</sup> for the past week
- We are concerned about the removal of the rental chillers from BNL -> Can the contract be extended until the end of the run at least for some of them?
  - ECW is vital for operations, this reduces the risk of multiday downtime
- sPHENIX tracking group would like another 6x6 magnet off (and magnet on) run due to change in static distortions with TPC damage mitigation > Next week?
  - Damage as a result of Oct 19 beam abort
- Maintenance day activities
  - ECW off to install UPS in 1008A PLC (adjust Quench Watch Dog Timer too)
  - Replace TPC CDU Flash drive (needs CDU off)
  - Fix minor EMCal SiPM cooling leak (not an issue for operation)
- Everything is running smoothly at sPHENIX!

Rosi Reed