



# sPHENIX Status RHIC Coordination

October 14<sup>th</sup>, 2025

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Lehigh University

sPHENIX Run Coordinator

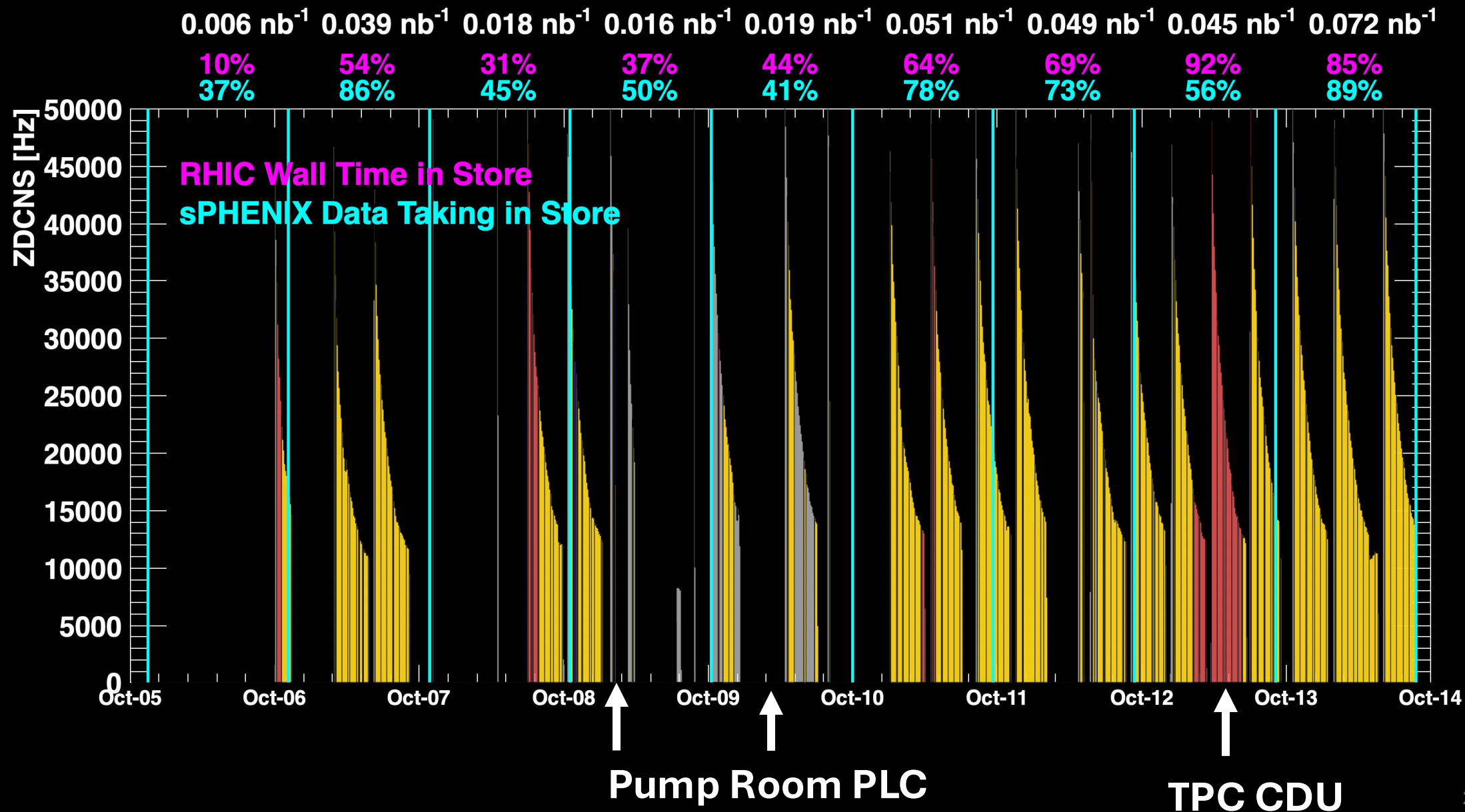
Ron Belmont

UNC Greensboro

sPHENIX Deputy Run Coordinator

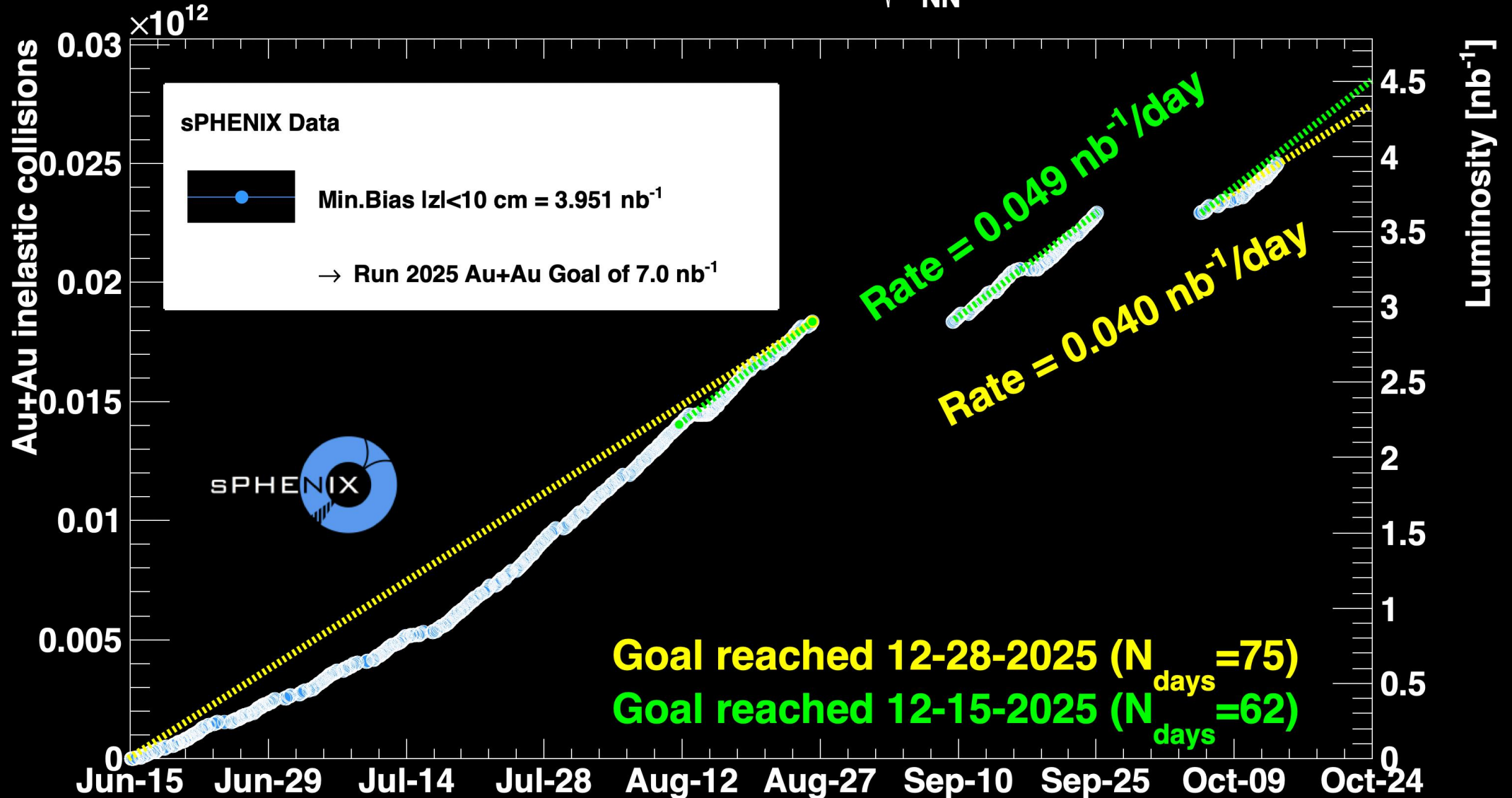


# sPHENIX Wall Time



# sPHENIX Luminosity

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



# sPHENIX Activities

- **We are at 56.4% of our Au+Au goal of 7 nb<sup>-1</sup>**
  - **Estimate for reaching goal is Dec 15<sup>th</sup> – Dec 28<sup>th</sup>**
- 1008C Pump room tripped on 10/8 at 6:02 pm, due to voltage regulator card in the PLC
  - At 3:40 am 10/9 operations were restored
  - 10/9 at 11:02 am a similar pump room trip occurred, but no clear evidence of the failure mode
    - Replaced PLC PS Card again (only new part)
    - Replacement PLC would take 24+ hours
  - **Thanks to the C-AD Water Group!**
- TPC CDU issue manifested as an Advantage Chiller fault on 10/12 at 4:50 pm
  - Dew point protection circuit shut off chiller flow due to removal of N<sub>2</sub> hose during earlier repairs
    - Assembly hall dew point had increased due to the storm
  - On-site AC Tech noted chiller trip due to lack of flow in the evaporator, which allowed diagnosis
  - Replaced Plexiglass on TPC CDU to keep humidity down and prevent disturbing N<sub>2</sub> hoses
  - Investigate lack of alarm, complicated trouble shooting
  - **Many thanks to the AC Techs for their assist!**
- Magnet off, 6x6 run to start shortly! Stay tuned
- **With repairs to the pump room PLC and TPC CDU, sPHENIX is running well**