



# Run 25 Status RHIC Coordination

October 21st, 2025

Rosi Reed

Lehigh University

sPHENIX Run Coordinator

Ron Belmont

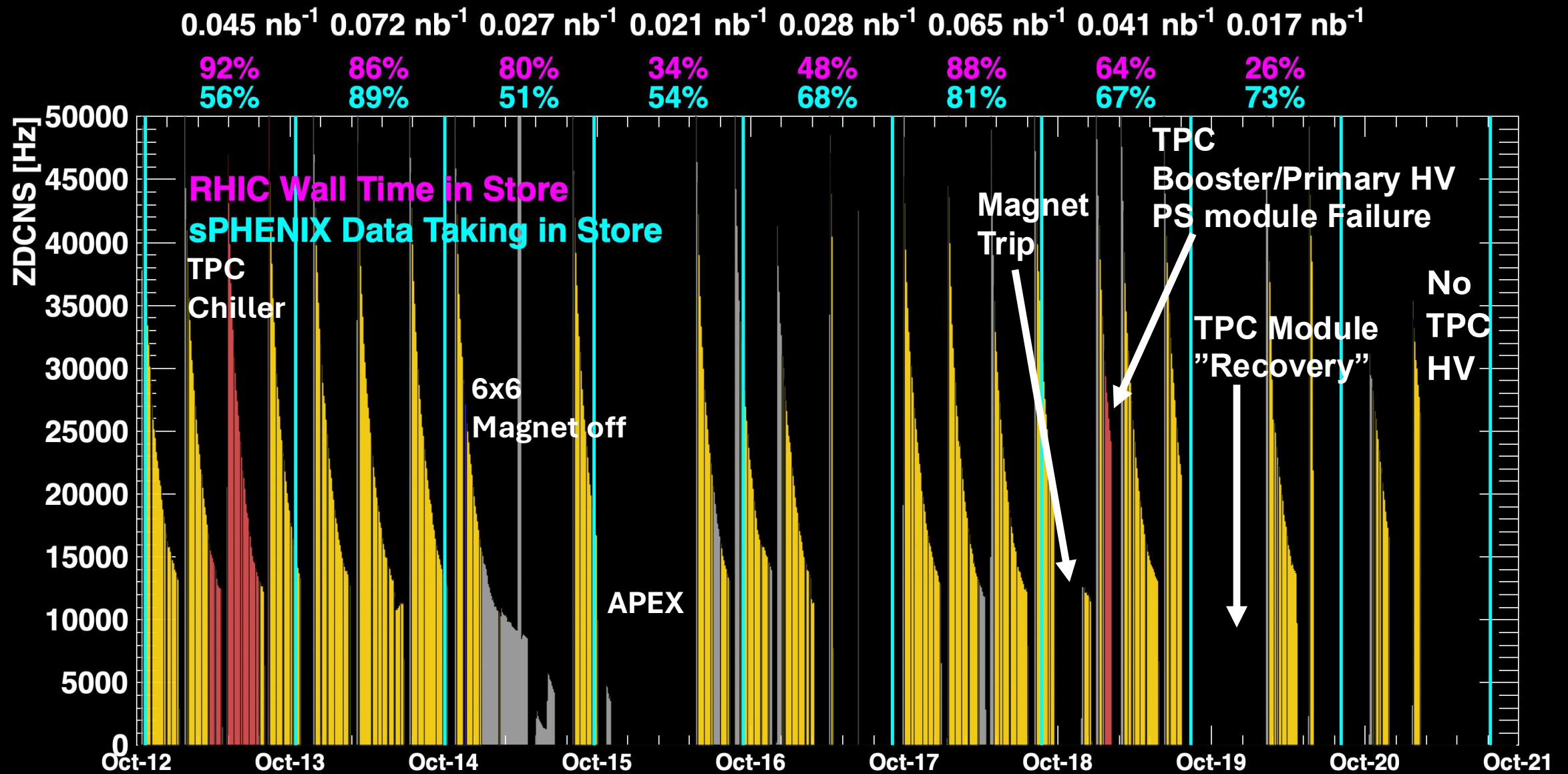
UNC Greensboro

sPHENIX Deputy Run Coordinator



No TPC

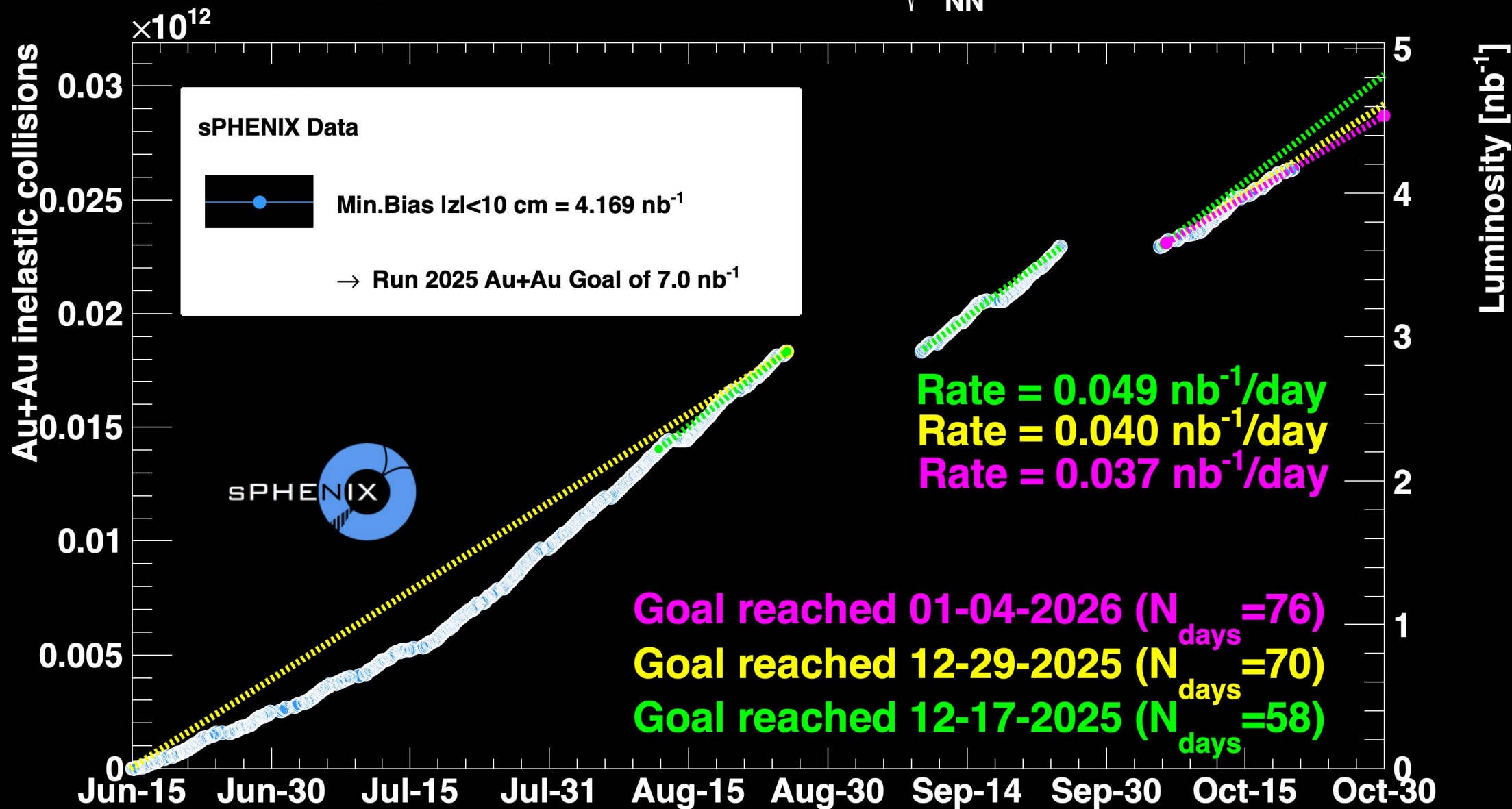
# sPHENIX Wall Time



# sPHENIX Luminosity

59.6% of our Au+Au goal

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



# 6x6 Field Off Event Display

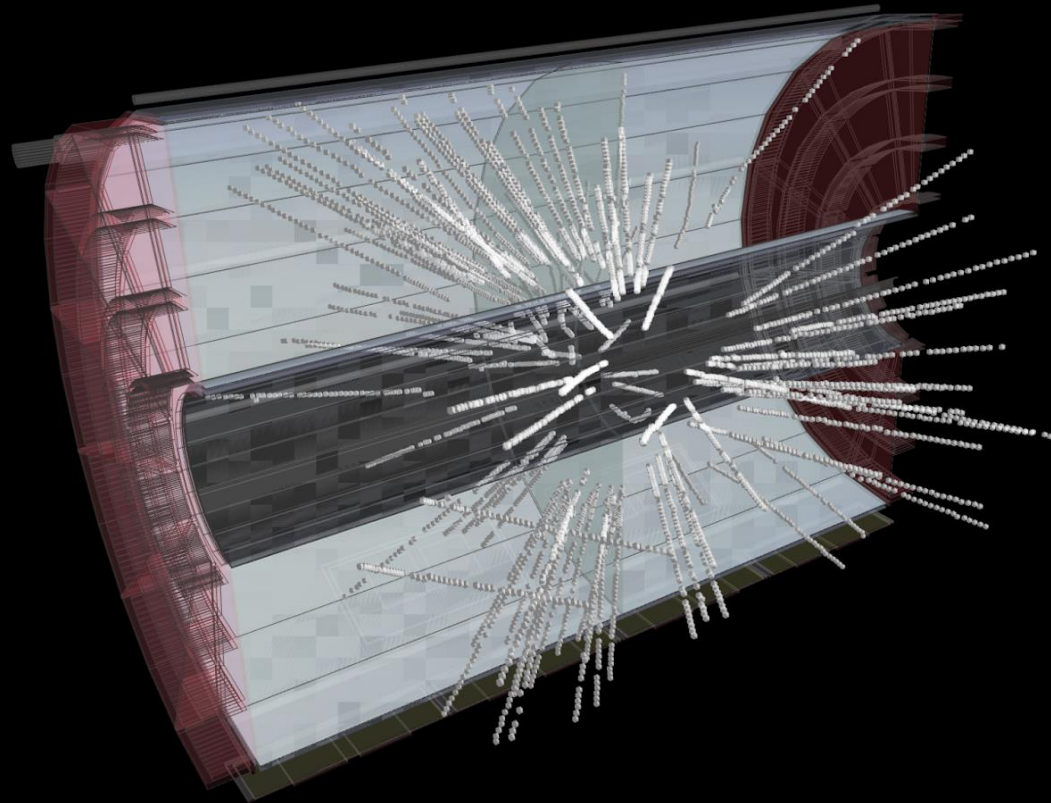
## 1mRad Crossing

sPHENIX Internal  
Au+Au,  $\sqrt{s_{NN}} = 200$  GeV  
2025-10-14, Run 75570, Single event  
Zero Field, 1 mrad beam crossing angle

Analysis of 6x6  
Field Off Data is  
ongoing

Tracking  
Alignment

Validate  
Distortion Models



# Conclusions

- We are at **59.6% of our Au+Au goal**
  - PAC Closeout recommends p+p running as second “must do” priority after completion of the Au+Au goal
- Last 2 weeks have had different failures decreased both RHIC and sPHENIX uptime
- Evaluation of TPC operation underway to mitigate damage
  - Sunday morning beam dump damaged to S.00.IFC (Inner Field Cage) and S.12.R1
  - Evaluating two different technical options
    - Simulation input underway
  - More aggressive gap cleaning prior to TPC HV on