

# Run 25 Status RHIC Coordination

December 2<sup>nd</sup>, 2025

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# sPHENIX Uptime Time

0.070 nb<sup>-1</sup> 0.035 nb<sup>-1</sup> 0.051 nb<sup>-1</sup> 0.061 nb<sup>-1</sup> 0.077 nb<sup>-1</sup> 0.055 nb<sup>-1</sup> 0.063 nb<sup>-1</sup> 0.054 nb<sup>-1</sup>

92%  
84%

43%  
83%

75%  
84%

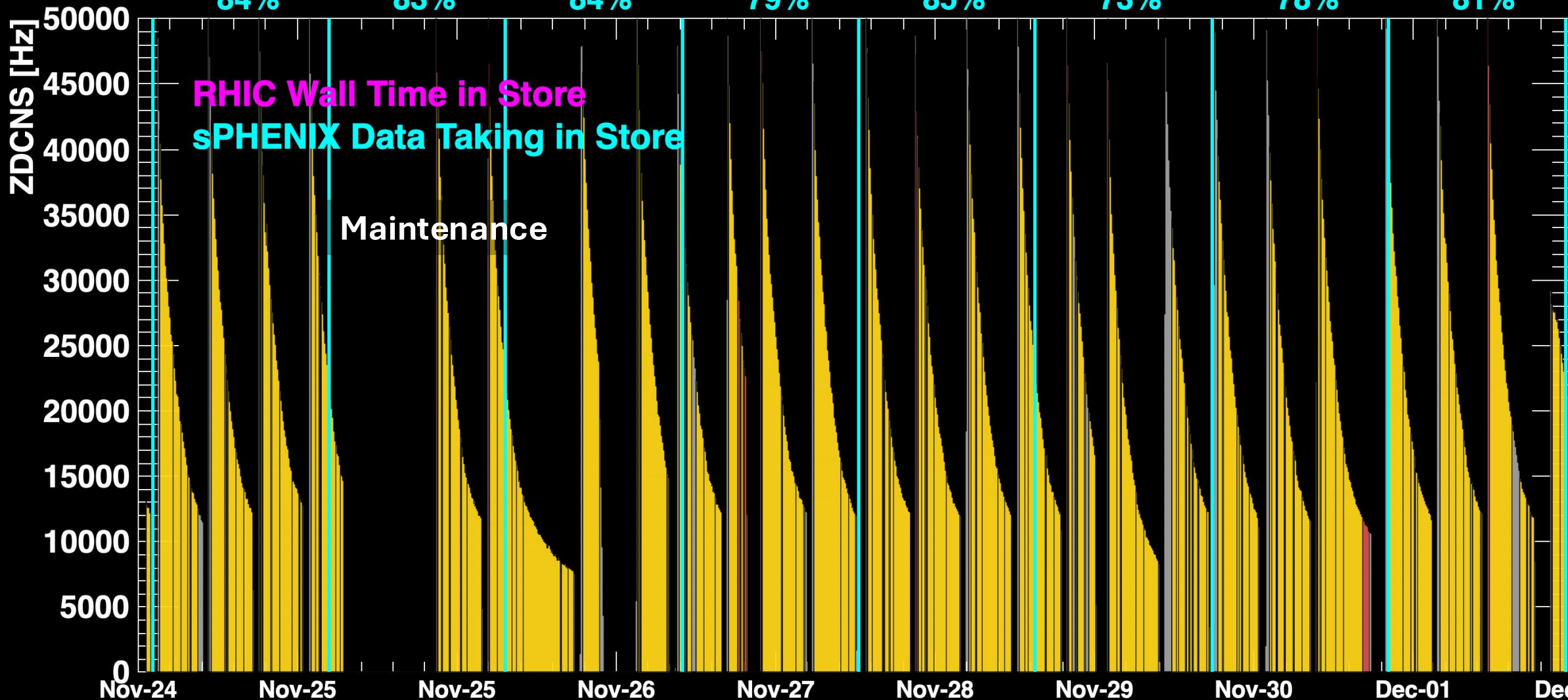
87%  
79%

92%  
85%

87%  
73%

86%  
78%

87%  
81%



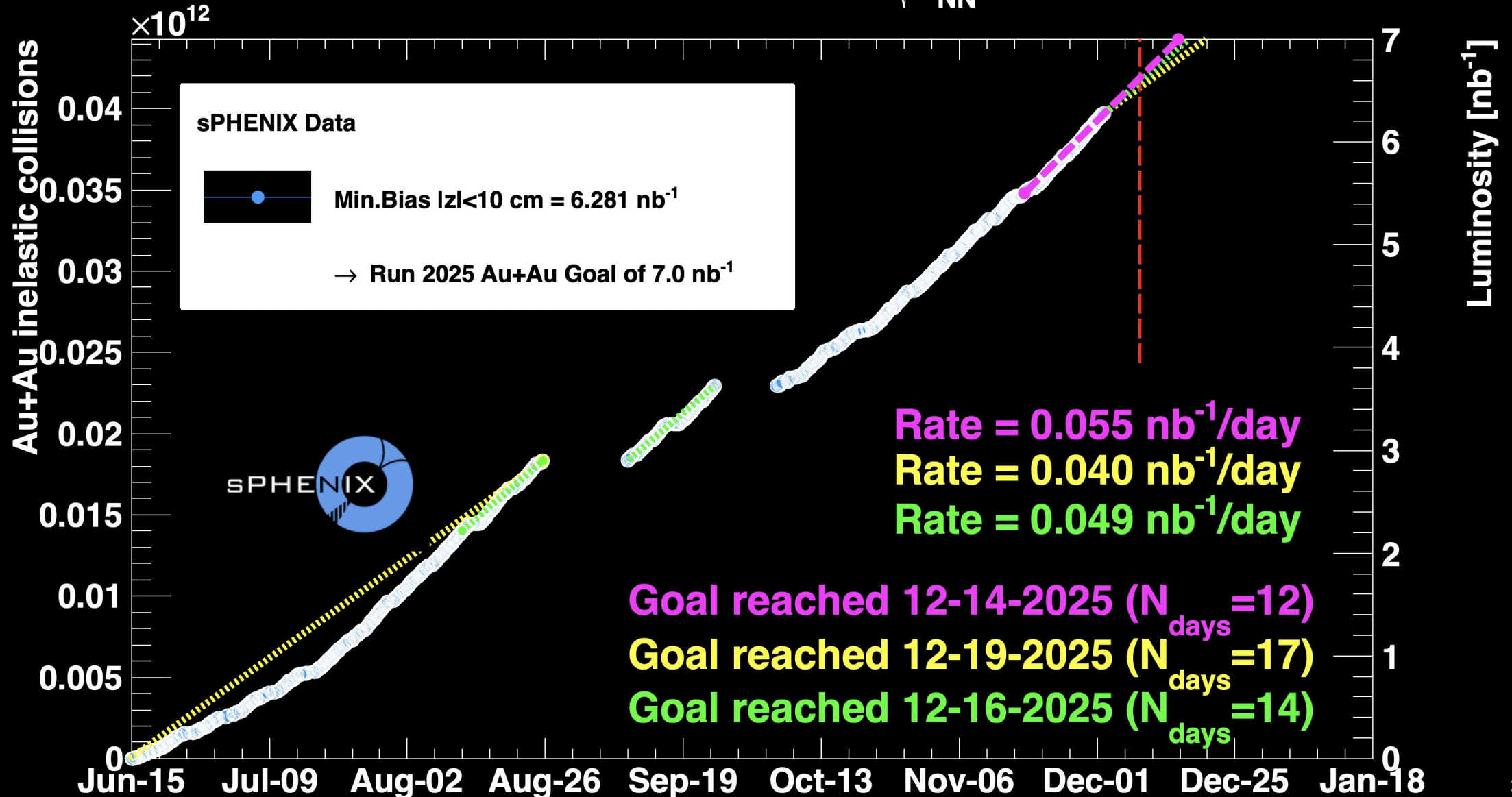
No TPC

Performance  
last 2 weeks

# sPHENIX Luminosity

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

89.7% of our  
Au+Au goal



# Transition from Au+Au $\rightarrow$ p+p

- We are at **89.7% of our Au+Au goal** of  $7\text{nb}^{-1}$
- By December 8<sup>th</sup>, we will have reached  $>90\%$  of  $7\text{nb}^{-1}$  Au+Au, which is the PAC top rated must-do physics
  - We ran very well over the Thanksgiving holidays, thanks to colleagues from Stony Brook, Baruch, Lehigh, Wayne State, Kyoto U., Florida A&M, Nara Women's University, Georgia State, and RIKEN for sacrificing their holiday time
- sPHENIX p+p Readiness Review Thursday December 4<sup>th</sup>
  - We plan for 1 week with physics beam to complete our commissioning prior to the holidays
- To meet the second PAC must-do recommendation, we must achieve at least  $90\%$  of our  $13\text{pb}^{-1}$  goal (6.5 weeks based on last year's projections)
  - New projections will be available once we start collecting data
  - Indicates that time is very tight to achieve the second PAC must-do recommendation
  - Uninterrupted holiday running will be vital to achieve our physics goals