



Run 25 Status RHIC Coordination

November 25th, 2025

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We Can Do It!

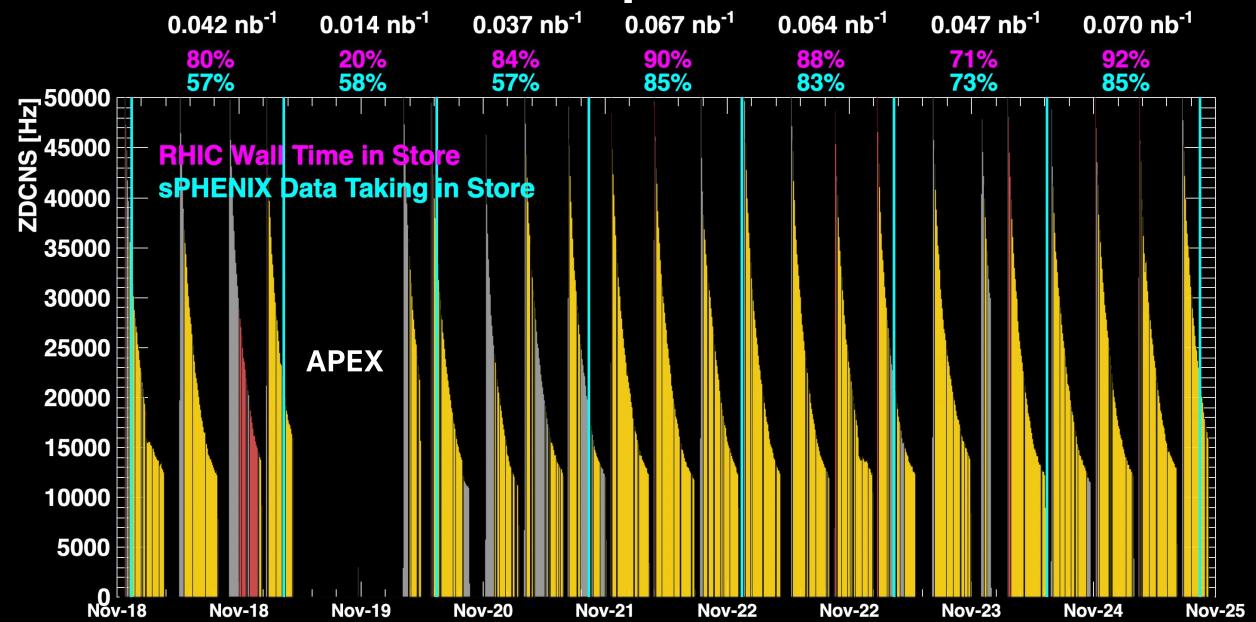


Ron Belmont
UNC Greensboro
sPHENIX Deputy Run Coordinator



No TPC

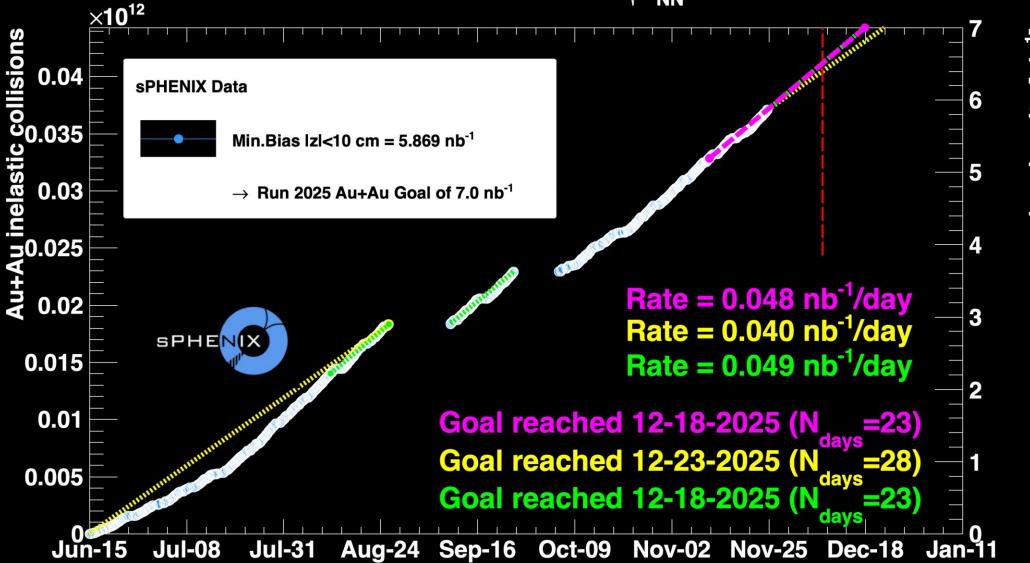
sPHENIX Uptime Time



sPHENIX Luminosity

83.8% of our Au+Au goal

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



Transition from Au+Au → p+p

- We are at 83.8% of our Au+Au goal of 7nb-1
- By December 8th, we will just be reaching 90% of 7 nb⁻¹ Au+Au, which is the PAC top rated must-do physics
 - 24 days to reach 100%, which would be 12/19
 - Transition on this date will allow all commissioning to be completed prior to the holiday week
- sPHENIX p+p Readiness Review Thursday December 4th
 - Plan on roughly 1 week of commissioning:
 - Photon+Jet Triggers
 - TPC HV System
 - Establish operation of high-fraction streaming read-out
- Propose to limit the APEX in December to December 17th for A rated experiment
 - Only 12 calendar days remaining to achieve, so Dec 3rd could be critical for achieving the last Au+Au luminosity needed
 - sPHENIX would prefer to run physics 12/24 1/1 (traditional BNL quiet week) due to expert availability for both C-AD and sPHENIX

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Conclusions

- We are on track to meet 90% of our 7nb⁻¹ by December 8 which fulfills the first PAC must-do recommendation
- Preparations for the transition to p+p running are underway in sPHENIX
- Stability during the holiday week will be critical to success
- To meet the second PAC must-do recommendation, we must achieve at least 90% of our 13pb⁻¹ goal
 - Projections will be available once we start collecting data (last year was ~2pb⁻¹ per week)
 - Indicates that time is very tight to achieve the second PAC must-do recommendation

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