

Run 25 Status RHIC Coordination

September 30th, 2025

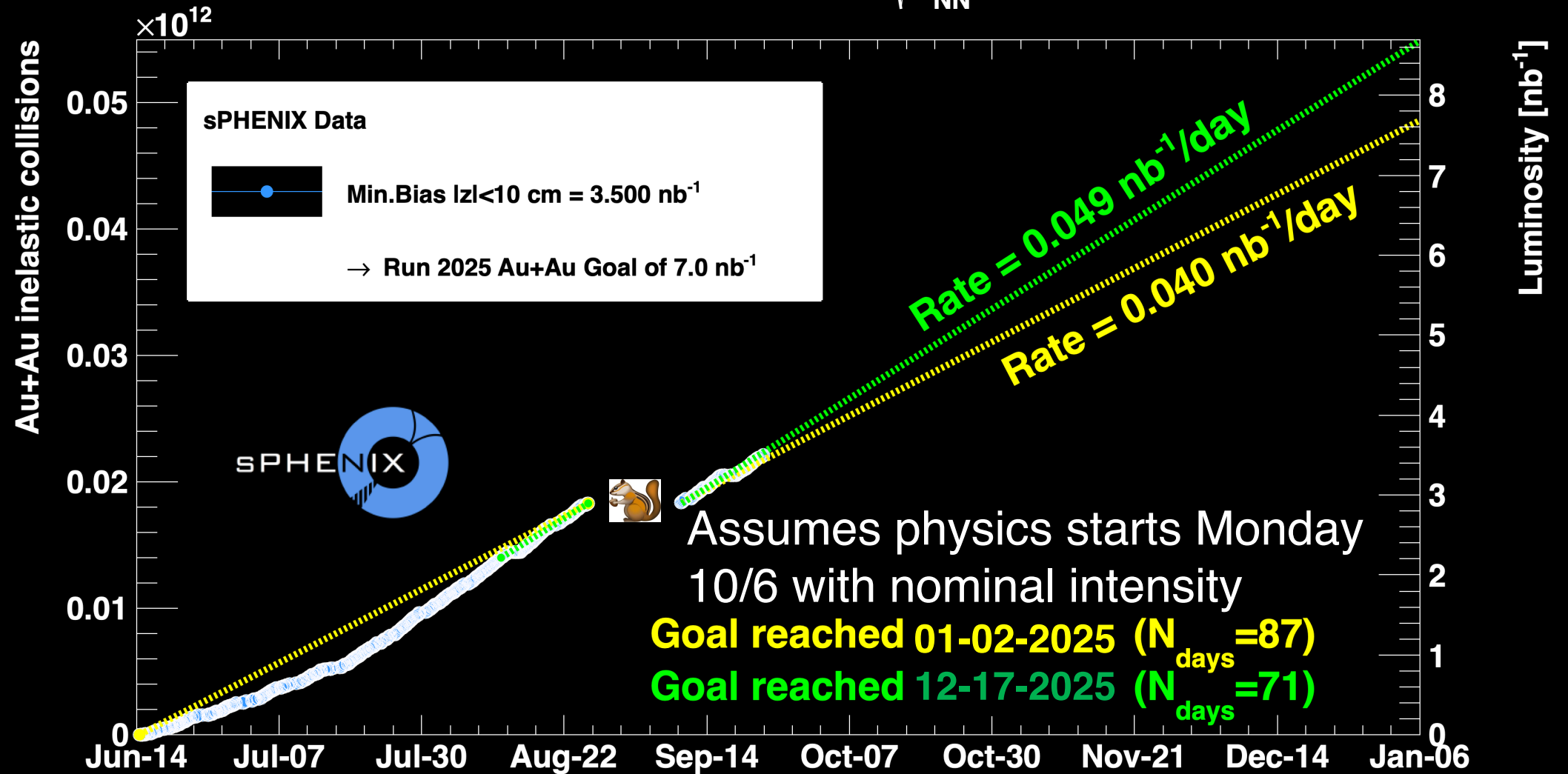
Rosi Reed
Lehigh University
sPHENIX Run Coordinator

Ron Belmont
UNC Greensboro
sPHENIX Deputy Run Coordinator



sPHENIX Luminosity

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



sPHENIX Activities

- We look forward to speedy recovery of RHIC operations
- If nominal operations restart on Monday 10/6, we project 7 nb⁻¹ of Au+Au by Dec 17th – January 2nd
 - Best case scenario is about 0.05 nb⁻¹ per day
- We are completely swapping out the TPC CDU cooling water in order to prevent additional issues as recommended by Chilldyne
 - Takes 2 days starting tomorrow, requires access to the IR in case of issues
- Replace CDU "muffler" today, which we repaired earlier with duct tape, now that the replacement is here
- Finish critical TPC calibration runs requiring beam-off conditions
 - TPC field on and off laser intensity gain scan
 - TPC line laser dances
 - TPC laser work can be done in parallel with CDU cooling water swap
- We are still interested in a magnet off (and on) 6x6 run when convenient (other “special” runs will only involve different sPHENIX configurations)