



# sPHENIX Status RHIC Coordination

January 6<sup>th</sup>, 2026

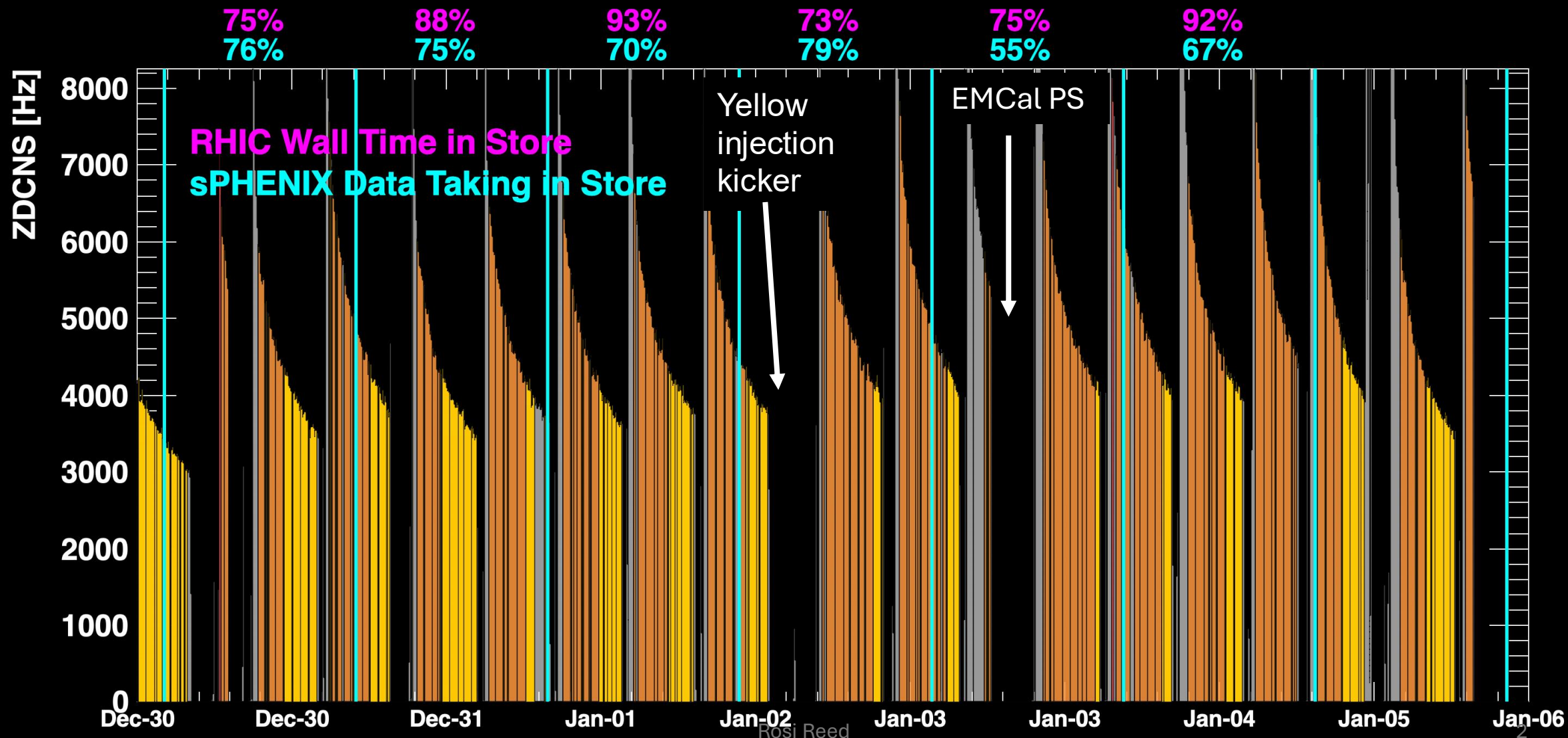
Rosi Reed  
Lehigh University  
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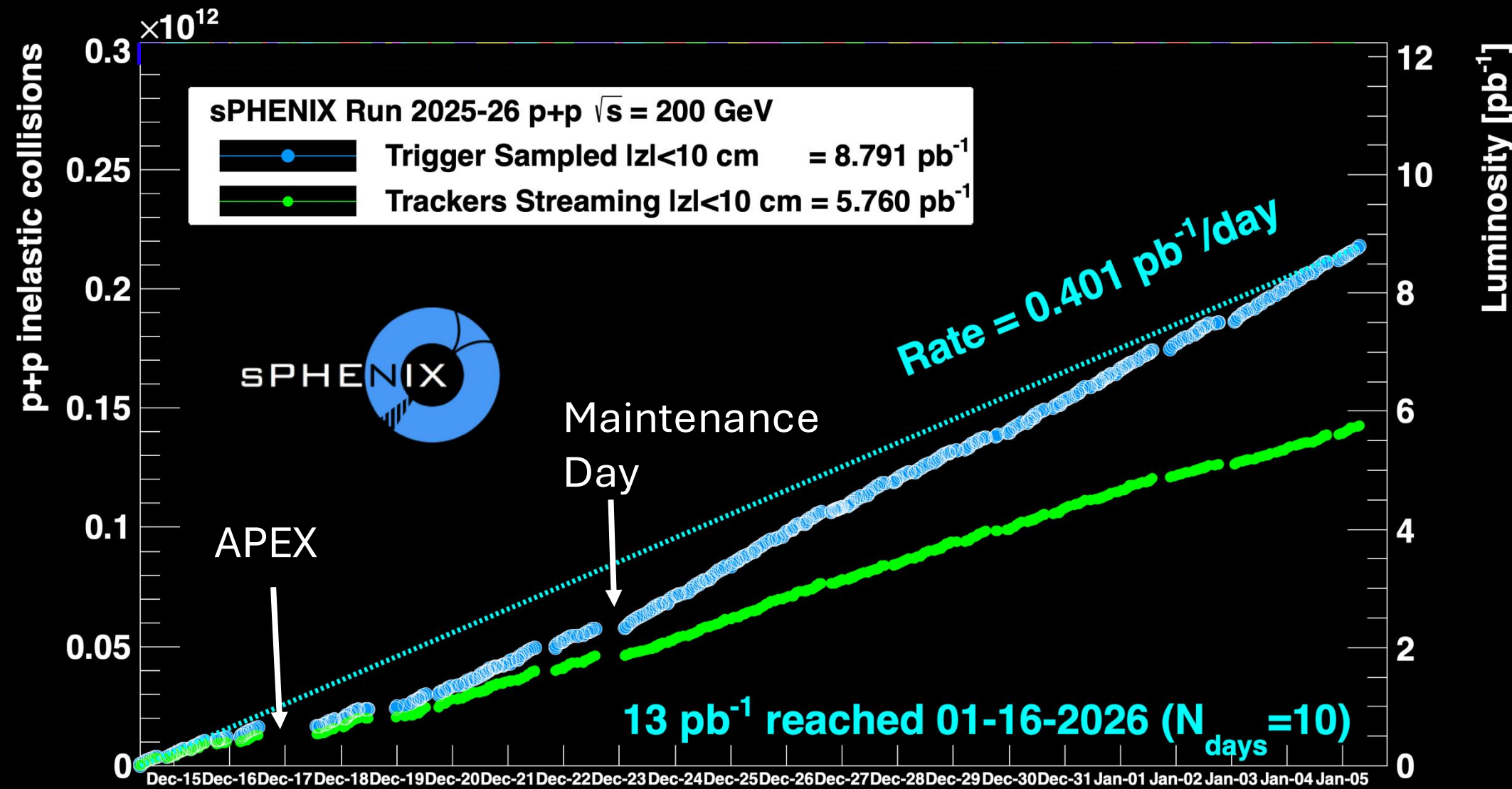
# sPHENIX Uptime

TPC Triggered Mode  
TPC Streaming Mode  
Not Running



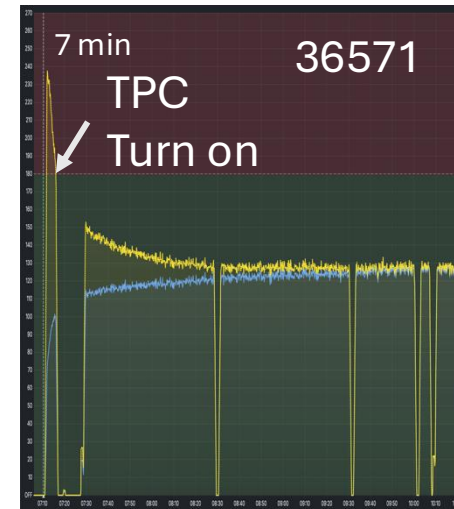
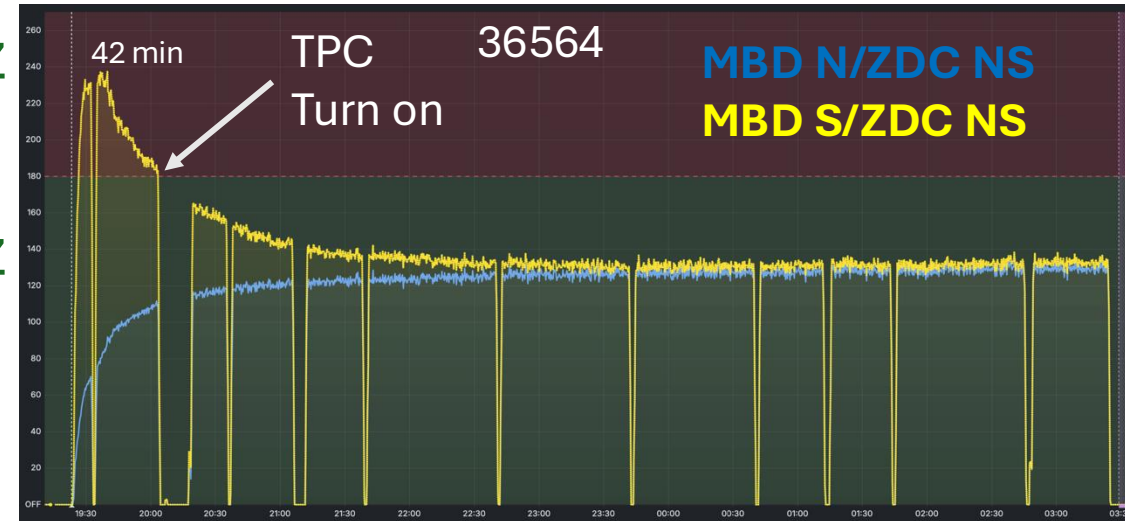
68% to our goal

# sPHENIX Luminosity



# Store-by-Store

- 36562 - physics + 15 mins, ZDC 13.1 kHz
- 36564 - physics + 42 mins, ZDC 8.4 kHz
- 36565 - physics + 12 mins, ZDC 13.4 kHz
- 36566 - physics + 47 mins, ZDC 7.8 kHz
- 36567 - physics + 15 mins, ZDC 11 kHz
- 36568 - physics + 48 mins, ZDC 7.2 kHz
- 36569 - physics + 76 mins, ZDC 6 kHz
- 36570 - physics + 7 mins, ZDC 10.1 kHz
- 36571 - physics + 7 mins, ZDC 11.4 kHz

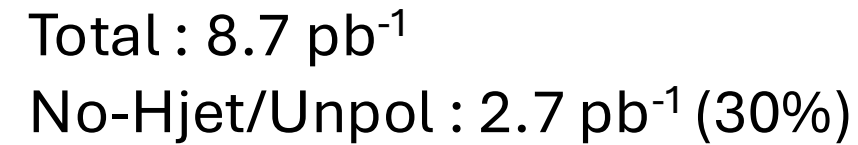


“Bad” fills require a longer wait before background allows turn on

- Decreased uptime
- More electronics upset



<https://wiki.bnl.gov/rhicspin/Polarimetry/H-jet/Run25pp>



Every spin physics paper has been published using Hjet data in the past. There will be larger systematic uncertainty to be assigned to data without Hjet, which has not been established.

## Major NO-Hjet operation periods

# Conclusions

- Currently at  $8.8 \text{ pb}^{-1}$  (68% of our 2025 PAC goal)
  - A change in our cross-section would change our projections (Vernier Scan)
  - Projected to meet  $13 \text{ pb}^{-1}$  goal 1/16 (58% of sPHENIX program goal of  $45 \text{ pb}^{-1}$ )
  - Uninterrupted running keeps our uptime high!
  - $2.7 \text{ pb}^{-1}$  does not have hjet polarization measurements
- Vernier Scan on Monday had an online analysis consistent with previous measurement
  - Offline analysis with corrections is ongoing
- Tracking group might want field-off p+p data for distortion measurements → We will discuss at our operations meeting today
- Post-collision run-plan: Calibration requires field on data until Feb 9 and field off data until Feb 23.