

sPHENIX Status

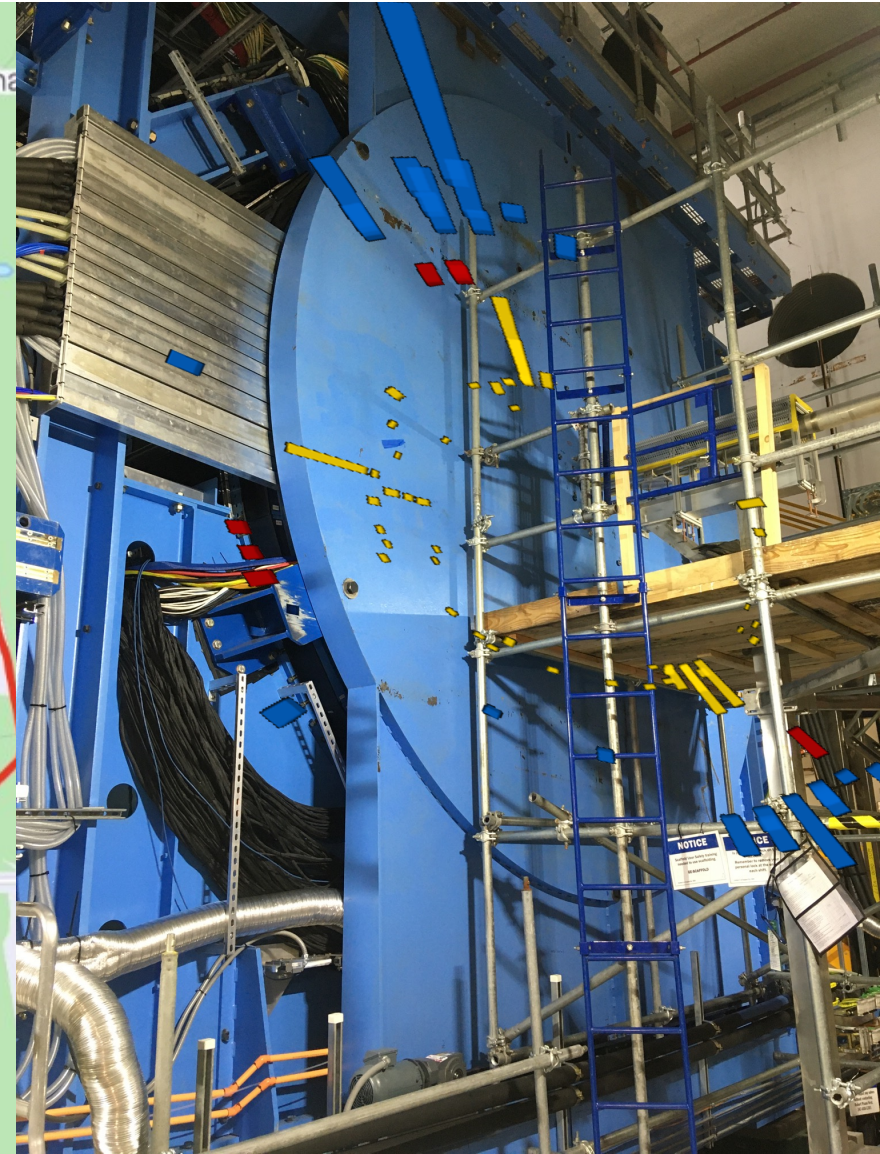
RHIC Coordination Meeting

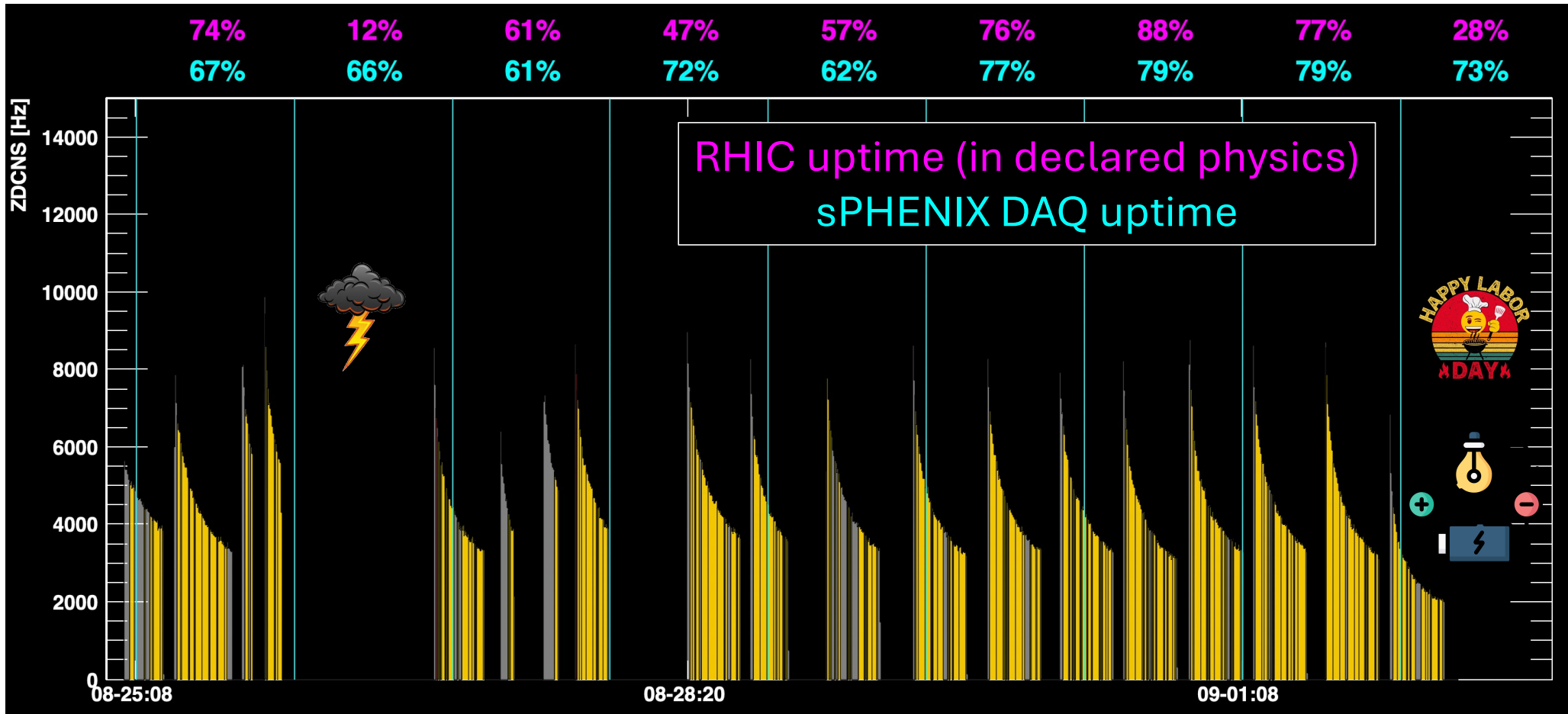
September 03, 2024

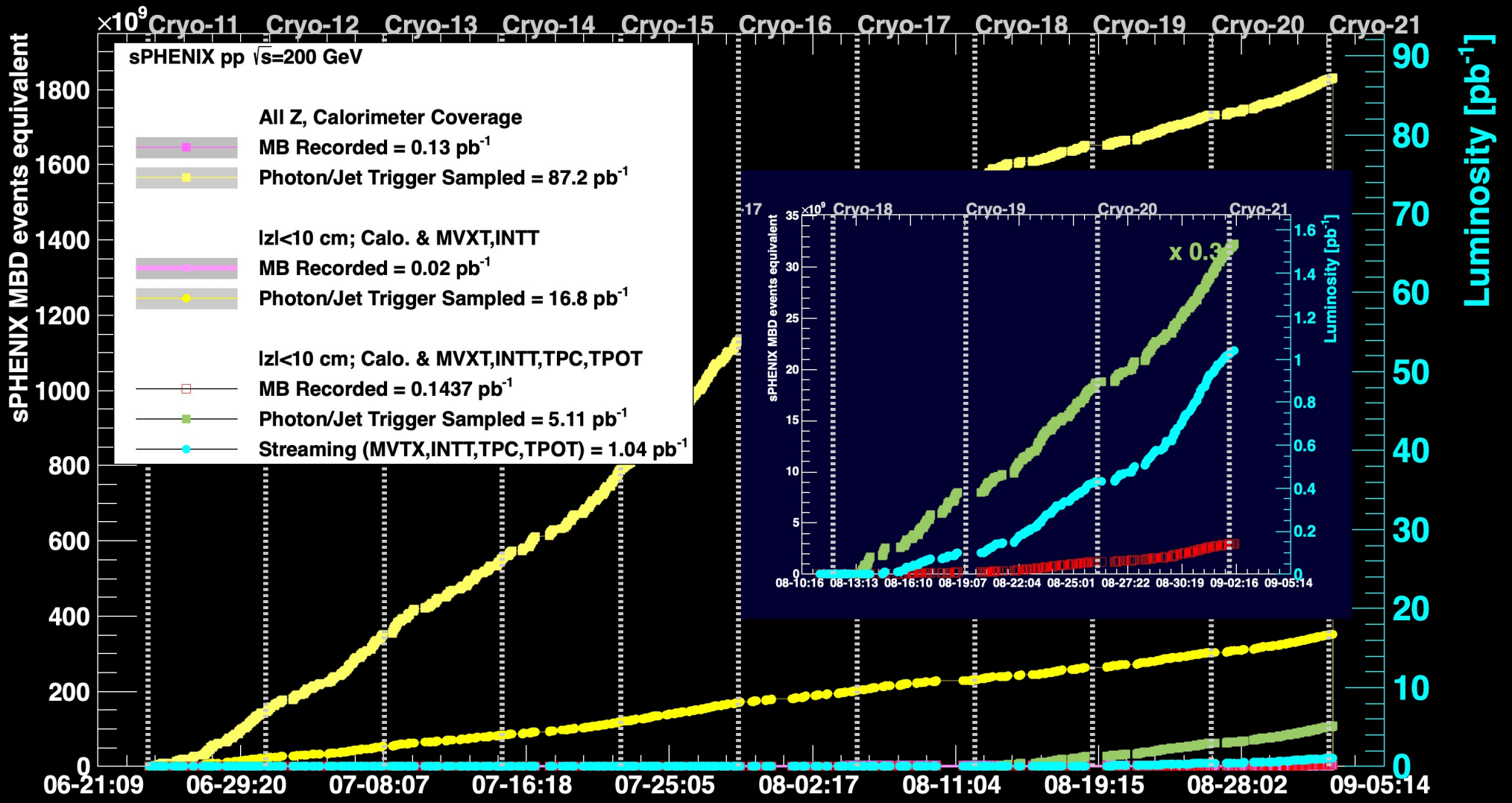
Jamie Nagle
University of Colorado Boulder
sPHENIX Run Coordinator

9/2/24

sPHENIX 2024

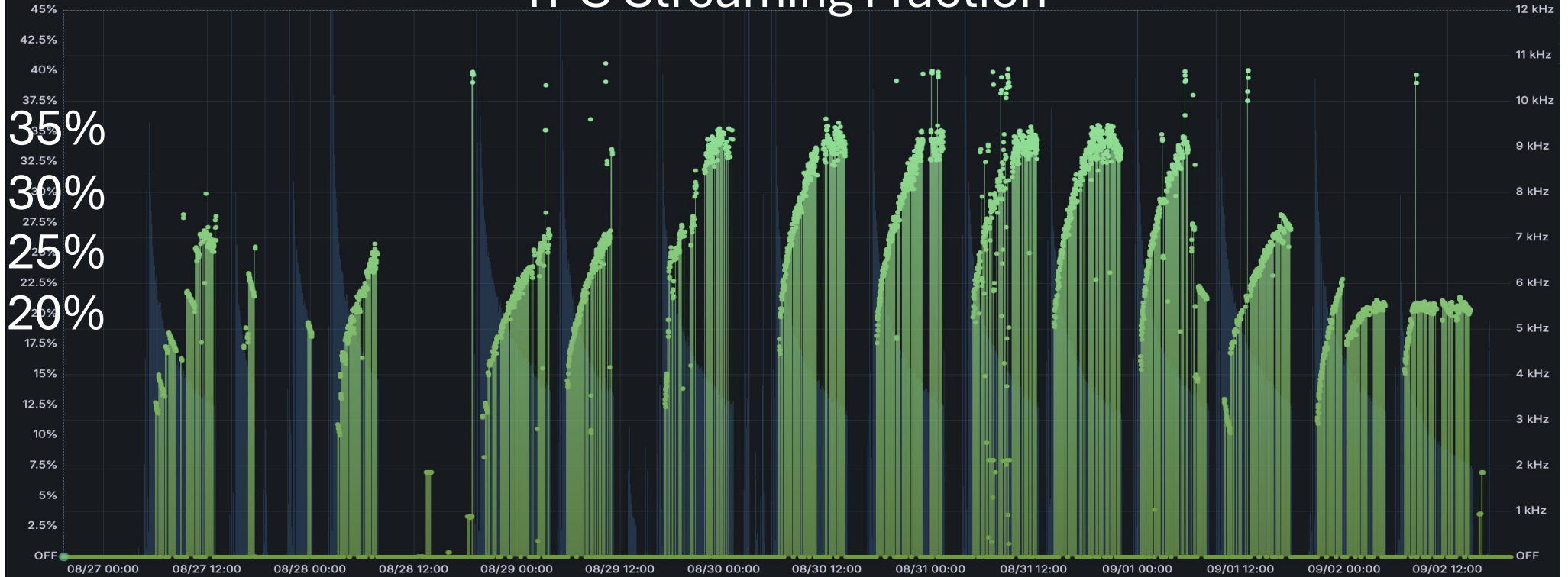






TPC Streaming Fraction [🔗](#)

TPC Streaming Fraction



RCDAQ Disk Write Rate Timeline



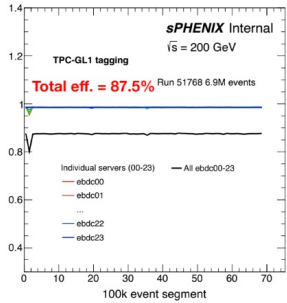
TPC Streaming Fraction



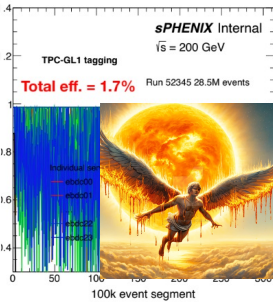
RCDAQ Disk Write Rate Timeline



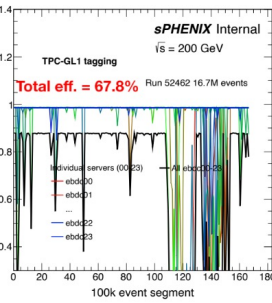
1
Aug. 21th, 32/ZDC rate
+ old compression



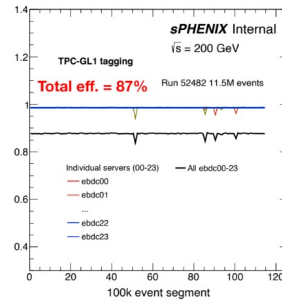
2
Aug. 30th, 45/ZDC rate
+ new compression



3
Sep. 1st, 32/ZDC rate
+ new compression



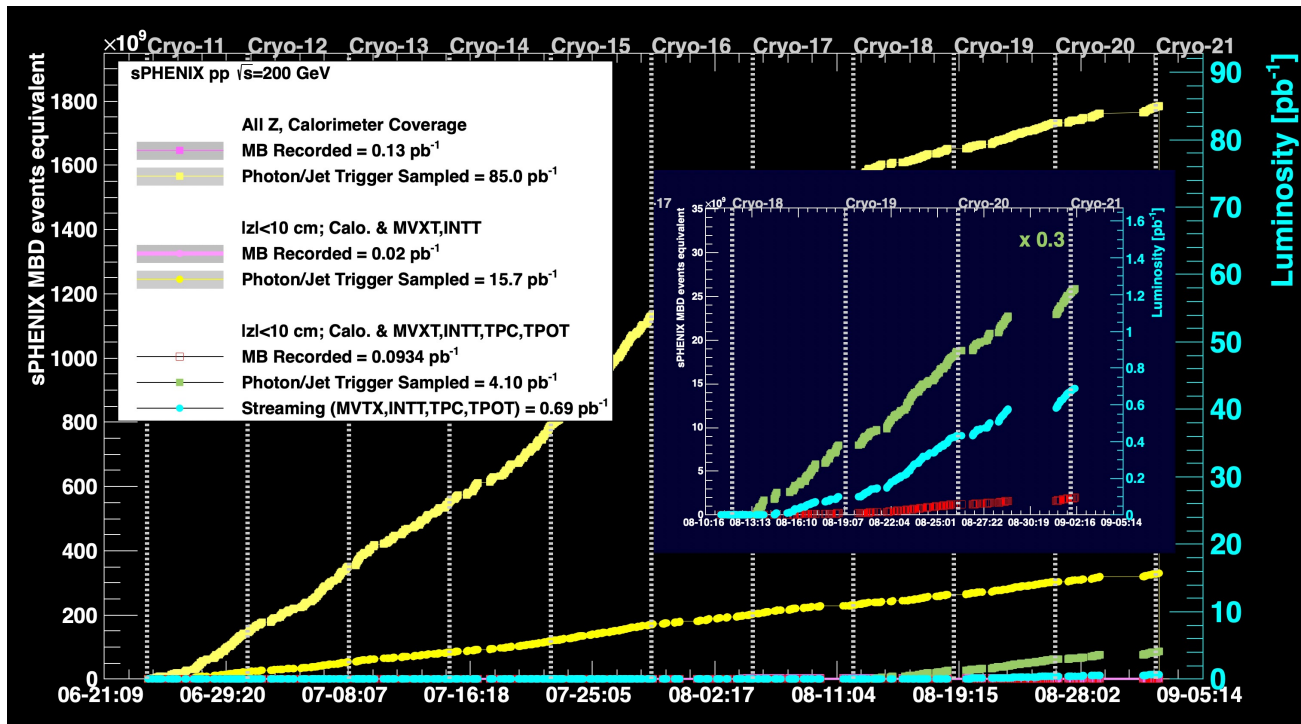
4
Sep. 2nd, 23/ZDC rate
+ new compression

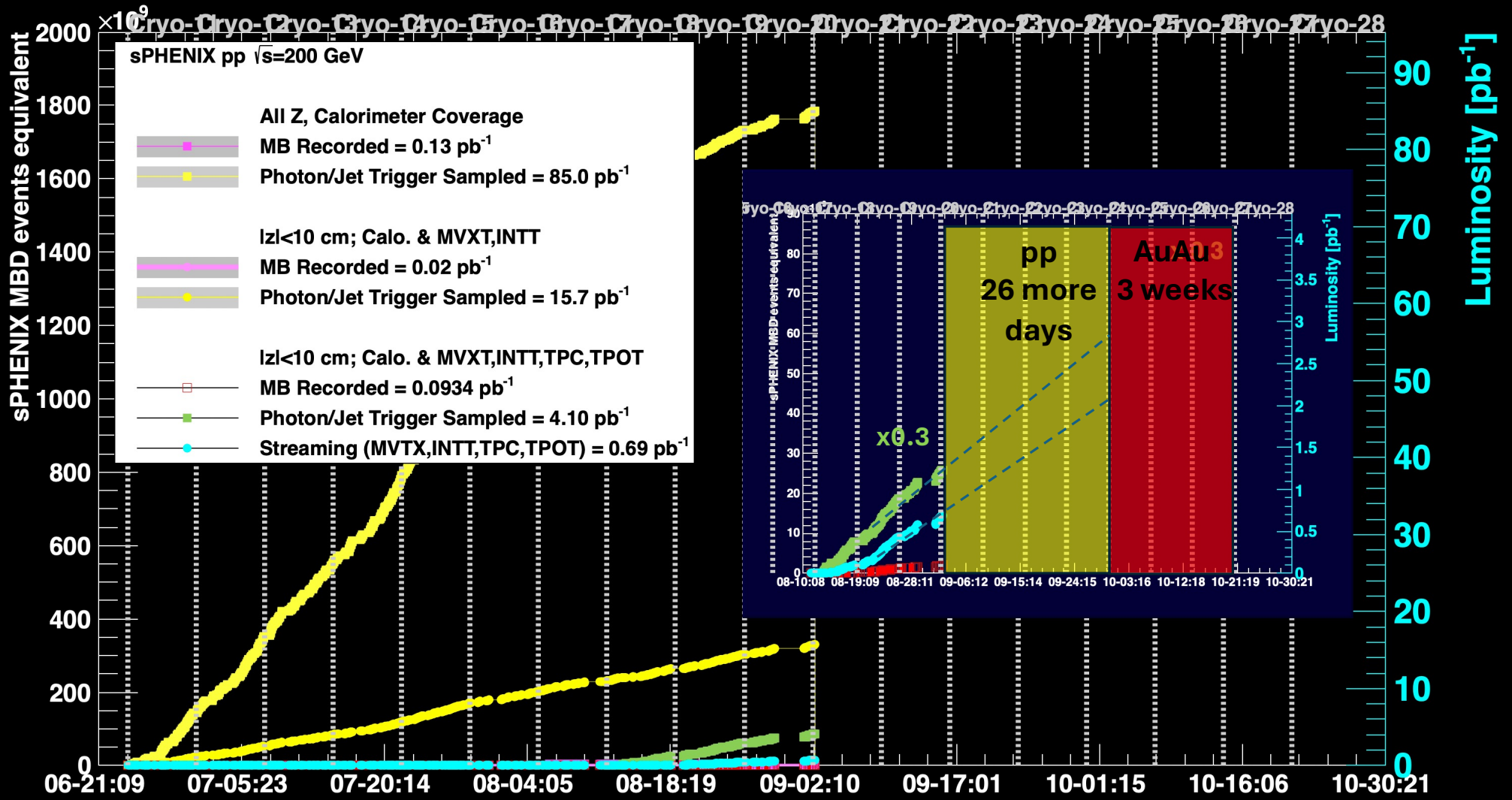


Right now, sPHENIX has backed off the streaming fraction.

Running is mostly efficient; however, a lot of expert consultation and offline checks.

To increase the fraction, likely requires FELIX card related firmware and potential busy logic.





Summary

- 1) Back on track with running at 20% streaming for open heavy flavor, 100% sampling with photon/jet triggers
- 2) Careful steps possible to increase percentage
- 3) **sPHENIX preference is no more pp 200 GeV Machine Development for beta squeeze / luminosity increase**
- 4) Achieving new goals stated in +2-week extension request are best met with stable running
- 5) Preparations for AuAu 200 GeV starting September 30, 2024.