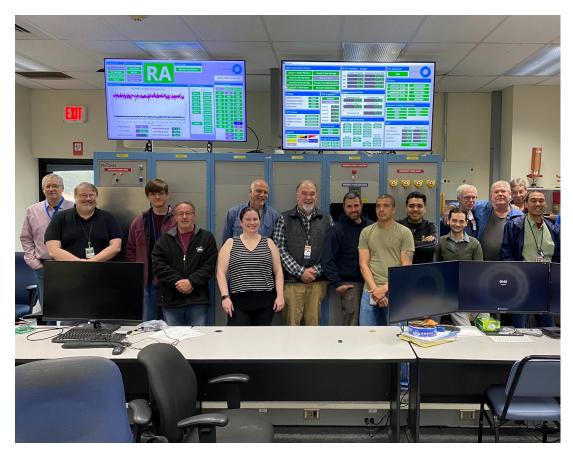


sPHENIX Shutdown Complete



Jimmy Labounty Frank Toldo Jim Mills Jeff Hoogsteden Aaron Allen Joel Vasquez Dan Cacace Mike Rau Mike Lenz Sean Stoll

(Not in the picture)

Sal Polizzo Bill Lenz Damon Miraglia Kevin Mandracchia Marianna Albanese Rob Pisani Bob Azmoun Many thanks to C-AD!

4/15/24

Thank you!

sPHENIX 2024

- Detector 100% installed; magnet pole doors closed.
- Plug door currently open; Restricted Access
- Magnet status, around 4.9K.
 Hipot test successful today.
 Plan to ramp to full field on Wednesday/Thursday.
 We will discuss whether to leave magnet on or off this weekend (but it will be in one state)



- Ready for first collisions (MBD, ZDC, trigger, ...)
- MVTX signal to C-AD for background feedback once initial beam stability achieved (also probably will want one beam tests)

4/16/24

sPHENIX Split Data Acquisition

(1) Fully pipelined, deadtimeless system

Calorimeters, Minimum Bias Detector, ZDC, sEPD, Triggers Currently running at spec. of 15 kHz (ready for physics)

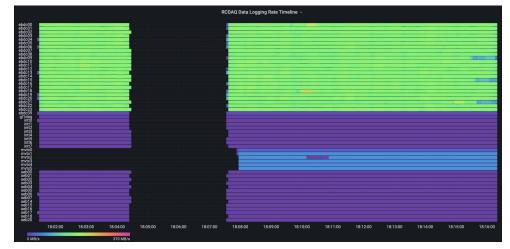
(2) Streaming tracking system

Time Projection Chamber (TPC), INTT, MVTX

Re-flashing TPC firmware (via sort-out-boxes/MightyJack board) on the critical path.

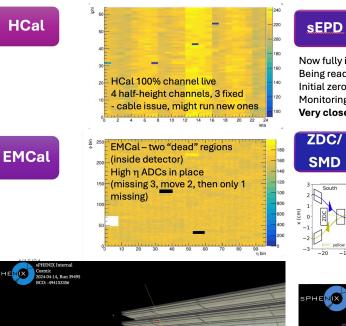
Many updates needed including zero suppression.

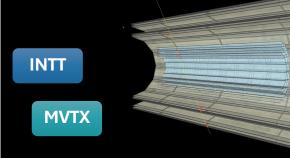
We can read out all sPHENIX systems together (!), but only at very low speed.



4/15/24

sPHENIX 2024





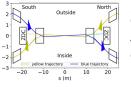


SMD

Now fully installed. Being read out with cosmics. Initial zero suppression working. Monitoring being updated. Very close to "Physics Ready"

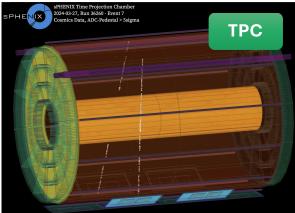


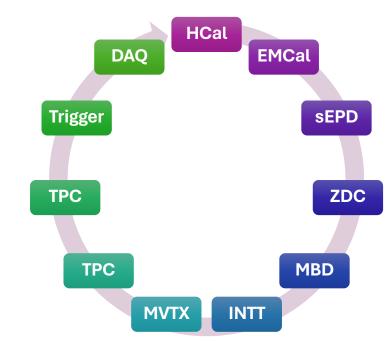
Detector moved by 1.8 cm to be centered for 2 mrad crossing angle. Resolving readout issue via SEB20.

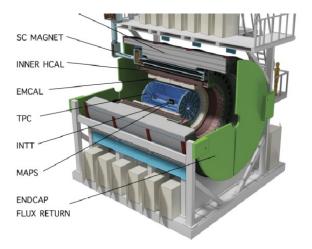


Initial local polarimeter via fast offline analysis.

Vernier scan plans in place – likely one month into stable running. sPHENIX 2024







sPHENIX 2024