



# sPHENIX Status

## RHIC Coordination Meeting

March 25<sup>th</sup>, 2025

Rosi Reed  
Lehigh University  
sPHENIX Run Coordinator

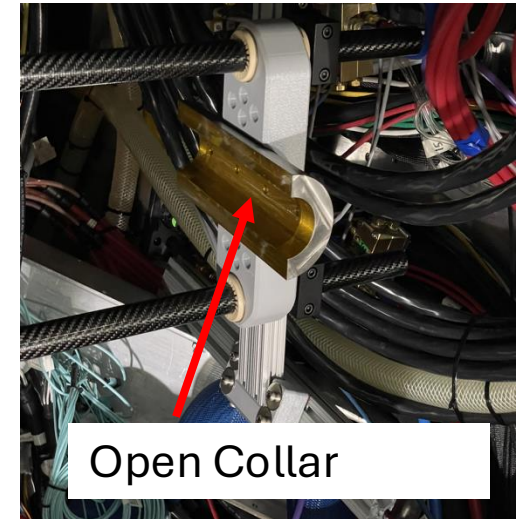


Ron Belmont  
UNC Greensboro  
sPHENIX Deputy Run Coordinator



# Run 25 Final Preparations

- Pink sheets, AESRC walkthrough, “roll-up” test, Tier 1 laser inspection complete
- All subsystems installed (sEPD, outer donuts)
- TPC HV gain scans found ideal gain at 98% optimal
- Line laser alignment technique validated
  - 2 out of 6 complete
- New buffer boxes in use
  - Old BBs currently being cleaned
- Poletip doors closed
- Magnet hipot test today (successful), interlock verification
  - Magnet PS test/ramp on Thursday, keep on after that
  - Field-on cosmics are important!



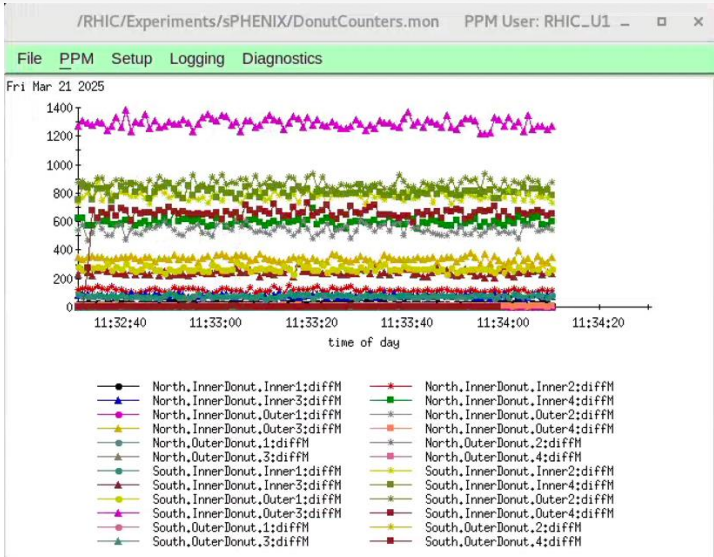
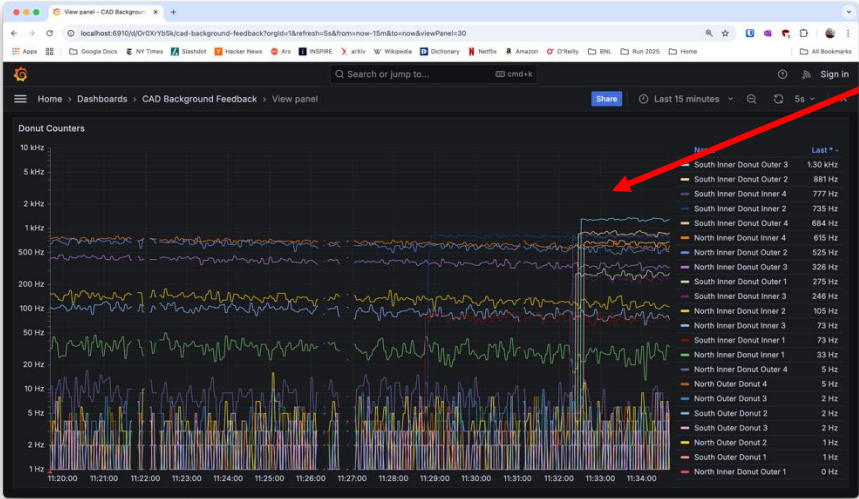
# Donuts are alive



sPHENIX Grafana



pixel firing



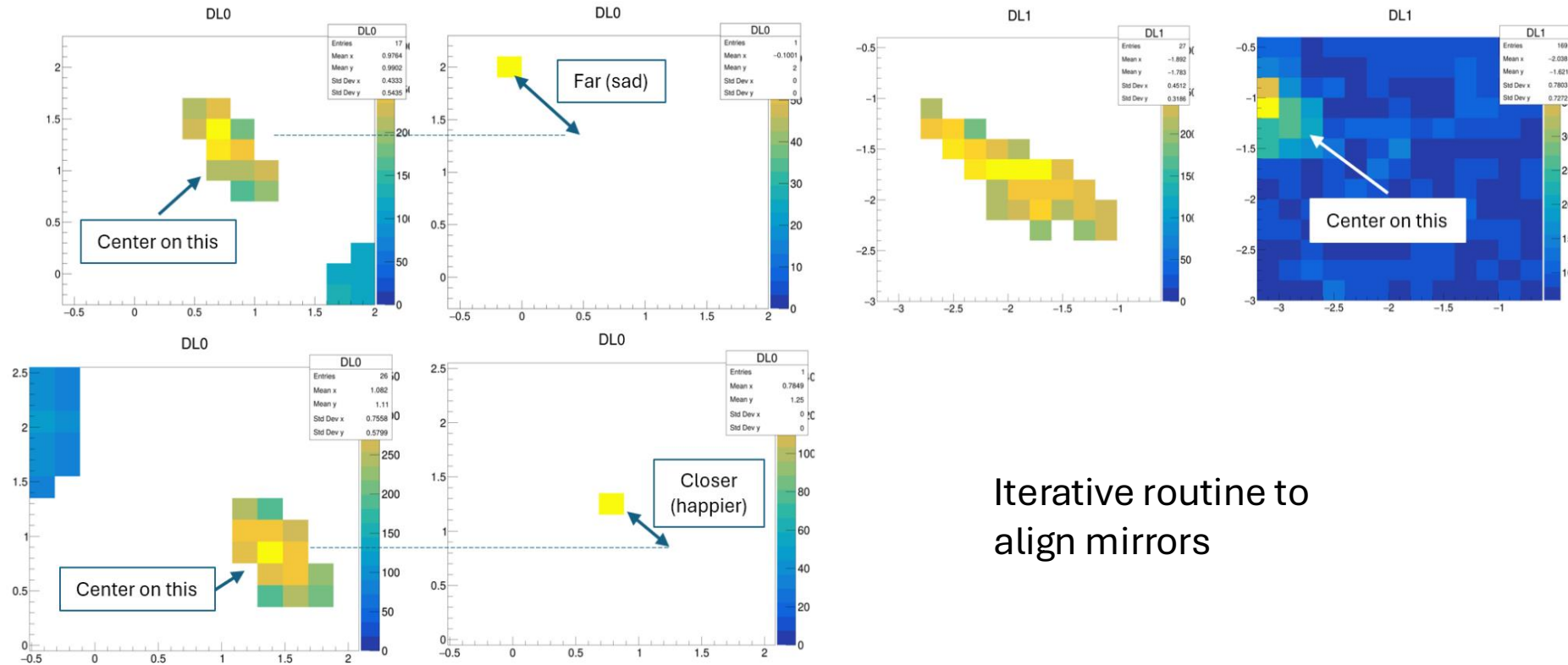
/RHIC/Interaction_Regions/sPHENIX/DonutCounters			
Page	PPM	Device	Data Tools Buffer Help
8c-32 channel sisScaler			
	Diff	OverFlow	Value
North.InnerDonut.Inner1	26	0	3431786448
North.InnerDonut.Inner2	116	1	1187392760
North.InnerDonut.Inner3	76	0	3469773540
North.InnerDonut.Inner4	548	0	2929237872
North.InnerDonut.Outer1	0	0	10854884
North.InnerDonut.Outer2	529	0	24257026
North.InnerDonut.Outer3	329	0	17689666
North.InnerDonut.Outer4	10	0	14385757
South.InnerDonut.Inner1	70	0	106176872
South.InnerDonut.Inner2	779	0	1013979338
South.InnerDonut.Inner3	238	0	774268482
South.InnerDonut.Inner4	788	0	948204612
South.InnerDonut.Outer1	248	0	626080307
South.InnerDonut.Outer2	836	0	648461110
South.InnerDonut.Outer3	1342	0	758662345
South.InnerDonut.Outer4	673	0	716281157
North.OuterDonut.1	2	0	123015
North.OuterDonut.2	4	0	245767
North.OuterDonut.3	3	0	195790
North.OuterDonut.4	0	0	157386
South.OuterDonut.1	2	0	9344
South.OuterDonut.2	2	0	18183
South.OuterDonut.3	1	0	13704
South.OuterDonut.4	0	0	11872

# Conclusions/Outlook

- All subsystems are installed!
  - **3.5 B Field Off Cosmics**
- Donuts Counters are in and running
  - Still need beam commissioning
- Dry runs for sPHENIX shift crews this week
- TPC improved firmware deployment this week

# Back-Up

# Shift Accomplishments TPC



Iterative routine to  
align mirrors