



sPHENIX RHIC Status Meeting

June 10th, 2025

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Lehigh University
sPHENIX Run Coordinator



Ron Belmont
UNC Greensboro
sPHENIX Deputy Run Coordinator



All subsystems took data together

MVTX+INTT+TPC+TPOT+EMCal+IHCAL+OHCAL+MBD+sEPD+ZDC+Donuts*

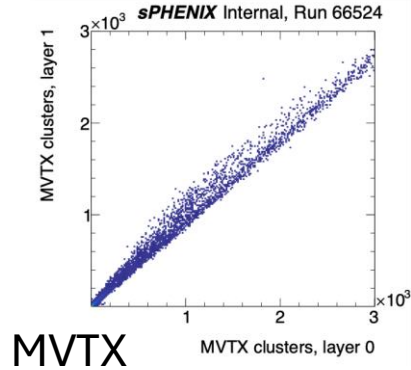
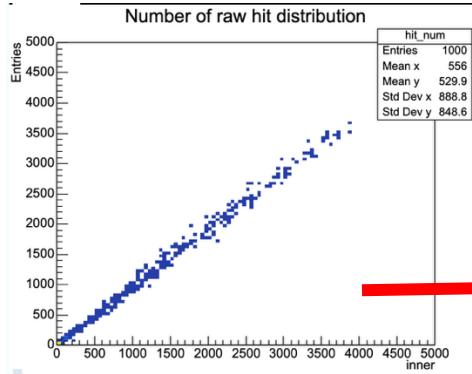
Counter Status																		
Counter Status																		
17:50:11																		
Running for 0:00:35																		
Run: 66522																		
Host	Status	Busy Rate	Count	Data Volume (M)	Run	Host	Count	Data Volume (M)	Run	Host	Count	Data Volume (M)	Run	Host	Count	Data Volume (M)	Run	
gl1daq			3265	6	66522	ebdc00 - TPC	16369	158	66522	ebdc00:1 - TPC	17029	162	66522	intt0 - INTT	10449	4	66522	
seb00 - EMCal (ZS)	not busy	0.00%	3265	32	66522	ebdc01 - TPC	13039	165	66522	ebdc01:1 - TPC	16353	170	66522	intt1 - INTT	10337	5	66522	
seb01 - EMCal (ZS)	not busy	0.00%	3266	32	66522	ebdc02 - TPC	14438	165	66522	ebdc02:1 - TPC	14880	177	66522	intt2 - INTT	11527	5	66522	
seb02 - EMCal (ZS)	not busy	0.00%	3266	32	66522	ebdc03 - TPC	15559	166	66522	ebdc03:1 - TPC	15272	160	66522	intt3 - INTT	11702	5	66522	
seb03 - EMCal (ZS)	not busy	0.00%	3267	31	66522	ebdc04 - TPC	13295	168	66522	ebdc04:1 - TPC	13364	182	66522	intt4 - INTT	9355	4	66522	
seb04 - EMCal (ZS)	not busy	0.00%	3267	31	66522	ebdc05 - TPC	13363	163	66522	ebdc05:1 - TPC	16223	169	66522	intt5 - INTT	9395	5	66522	
seb05 - EMCal (ZS)	not busy	0.00%	3268	32	66522	ebdc06 - TPC	12855	150	66522	ebdc06:1 - TPC	13736	161	66522	intt6 - INTT	8725	5	66522	
seb06 - EMCal (ZS)	not busy	0.00%	3269	31	66522	ebdc07 - TPC	16773	149	66522	ebdc07:1 - TPC	16335	167	66522	intt7 - INTT	11246	4	66522	
seb07 - EMCal (ZS)	not busy	0.00%	3271	32	66522	ebdc08 - TPC	14902	111	66522	ebdc08:1 - TPC	13431	146	66522	ebdc39 - TPOT	9171	26	66522	
seb08 - EMCal (ZS)	not busy	0.00%	3272	31	66522	ebdc09 - TPC	18588	163	66522	ebdc09:1 - TPC	14731	160	66522	mvtx0 - MVTX	480	493	66522	
seb09 - EMCal (ZS)	not busy	0.00%	3273	33	66522	ebdc10 - TPC	14536	161	66522	ebdc10:1 - TPC	13148	161	66522	mvtx1 - MVTX	478	491	66522	
seb10 - EMCal (ZS)	not busy	0.00%	3273	33	66522	ebdc11 - TPC	18027	147	66522	ebdc11:1 - TPC	13908	192	66522	mvtx2 - MVTX	474	492	66522	
seb11 - EMCal (ZS)	not busy	0.00%	3272	32	66522	ebdc12 - TPC	18076	181	66522	ebdc12:1 - TPC	13871	174	66522	mvtx3 - MVTX	478	490	66522	
seb12 - EMCal (ZS)	not busy	0.00%	3273	33	66522	ebdc13 - TPC	16408	185	66522	ebdc13:1 - TPC	12757	188	66522	mvtx4 - MVTX	478	492	66522	
seb13 - EMCal (ZS)	not busy	0.00%	3274	33	66522	ebdc14 - TPC	18782	169	66522	ebdc14:1 - TPC	17165	169	66522	mvtx5 - MVTX	473	491	66522	
seb14 - EMCal (ZS)	not busy	0.00%	3274	33	66522	ebdc15 - TPC	14186	149	66522	ebdc15:1 - TPC	13352	190	66522					
seb15 - EMCal (ZS)	not busy	0.00%	3275	33	66522	ebdc16 - TPC	16814	172	66522	ebdc16:1 - TPC	13940	177	66522					
seb16 - HCal West (ZS)	not busy	0.00%	3275	46	66522	ebdc17 - TPC	16018	169	66522	ebdc17:1 - TPC	14724	180	66522					
seb17 - HCal East (ZS)	not busy	0.00%	3275	47	66522	ebdc18 - TPC	13204	145	66522	ebdc18:1 - TPC	15517	178	66522					
seb18 - MBD (NZS)	not busy	0.00%	3275	52	66522	ebdc19 - TPC	13233	153	66522	ebdc19:1 - TPC	17197	157	66522					
seb20 - ZDC/sEPD (ZS)	not busy	0.00%	3275	53	66522	ebdc20 - TPC	13608	146	66522	ebdc20:1 - TPC	13736	164	66522					
						ebdc21 - TPC	18574	145	66522	ebdc21:1 - TPC	17540	183	66522					
						ebdc22 - TPC	14595	108	66522	ebdc22:1 - TPC	20740	109	66522					
						ebdc23 - TPC	13274	171	66522	ebdc23:1 - TPC	13803	194	66522					

First time with
the beam
6x6 – Fill 35582

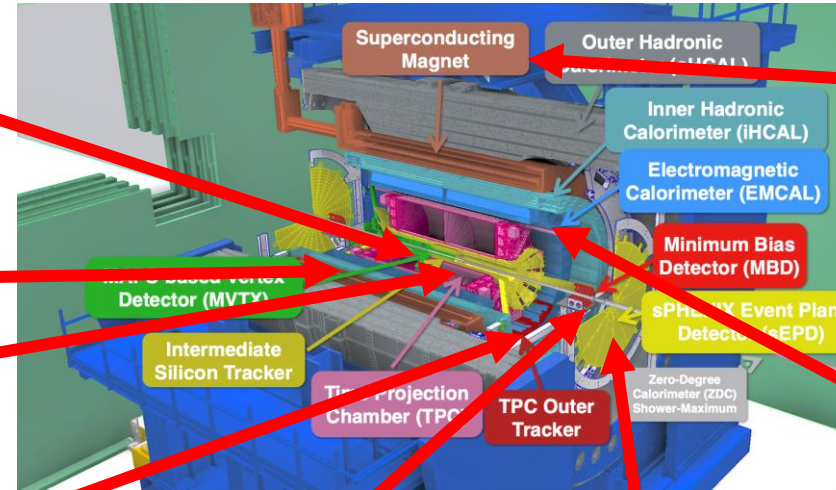
*Donuts not in posted display

sPHENIX is Progressing!

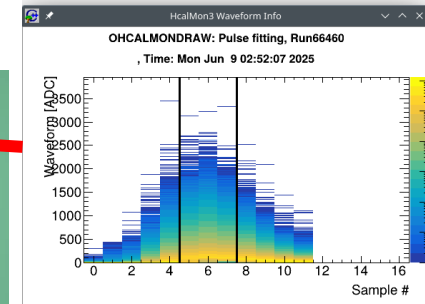
INTT



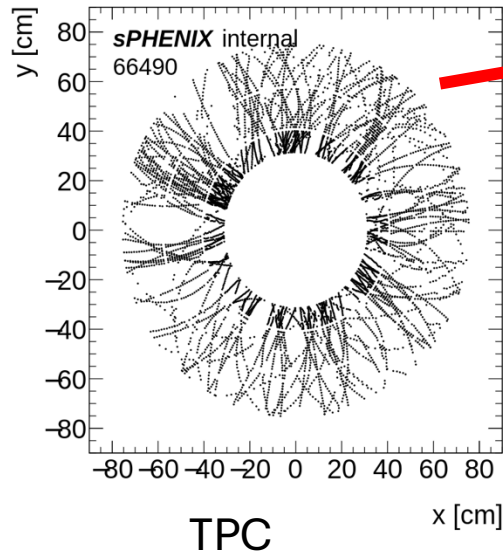
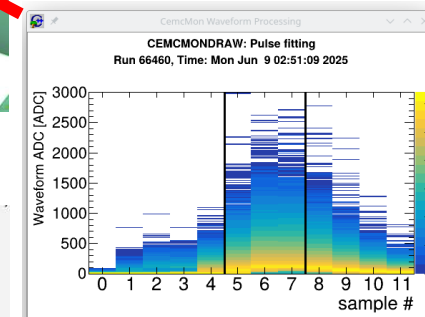
MVTX



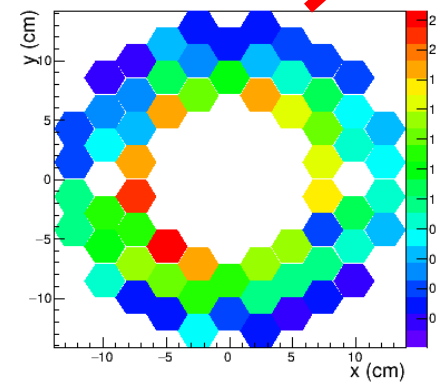
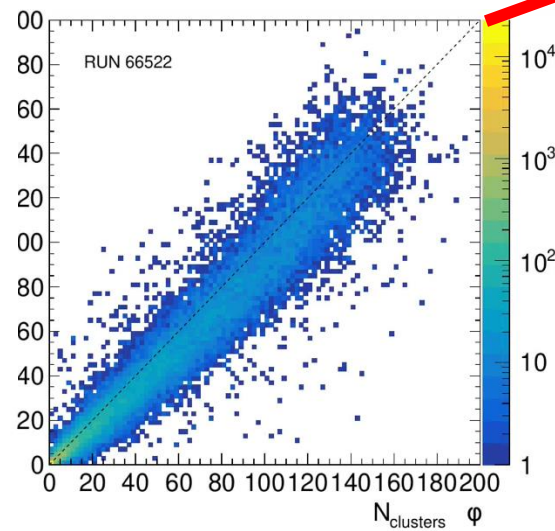
HCal



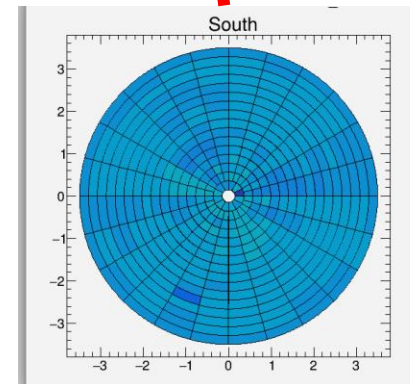
EMCal



TPOT

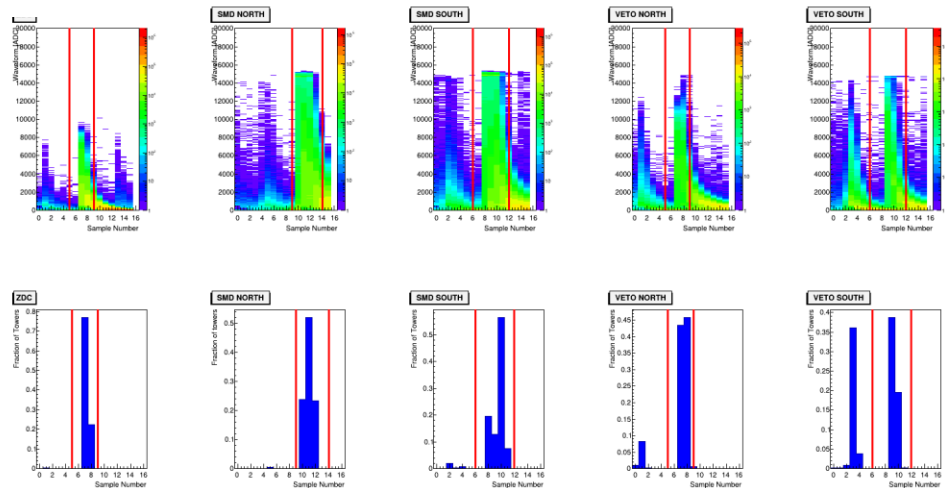


sEPD

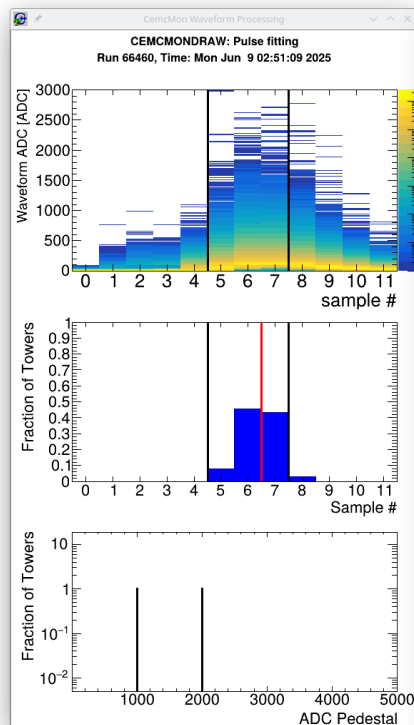


ZDC

ZDCMONDRAW_1 Run 66460, Time: Mon Jun 9 02:53:15 2025

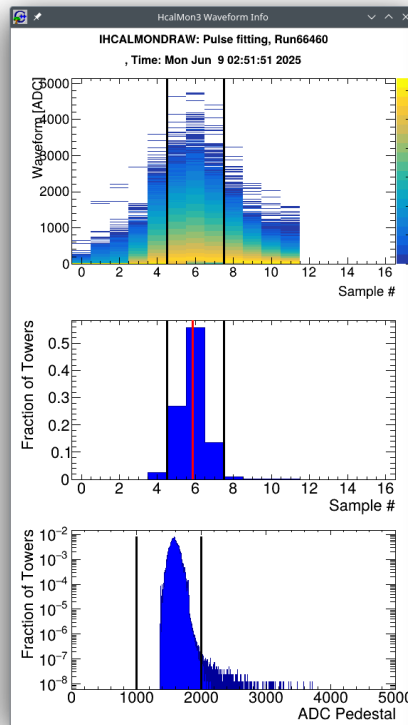


EMCal

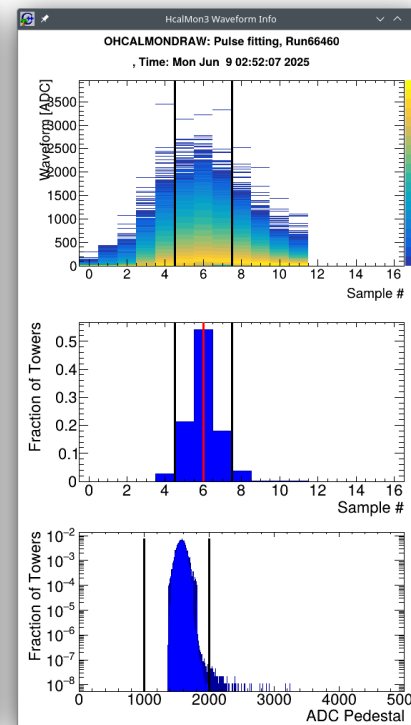


Enables us
to run
physics
production
in Calo-only
mode

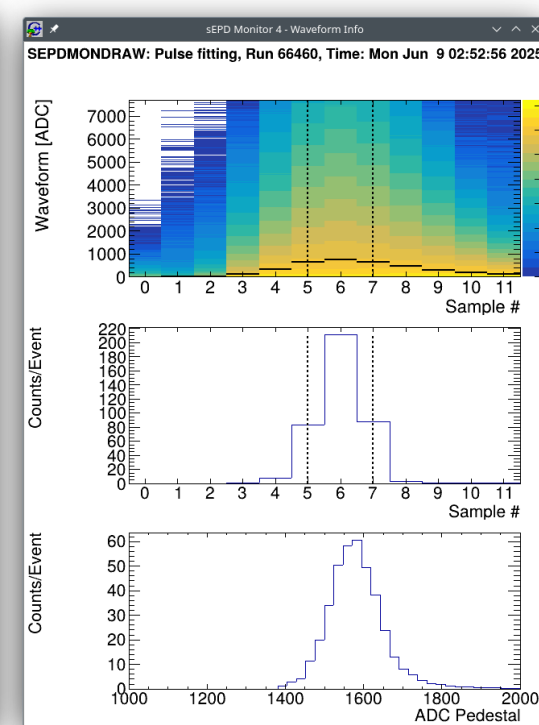
IHCal



OHCal



sEPD



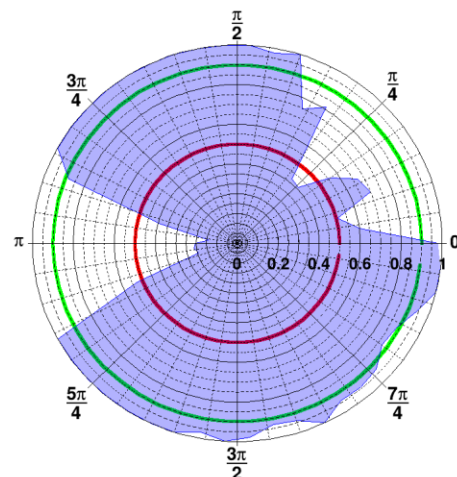
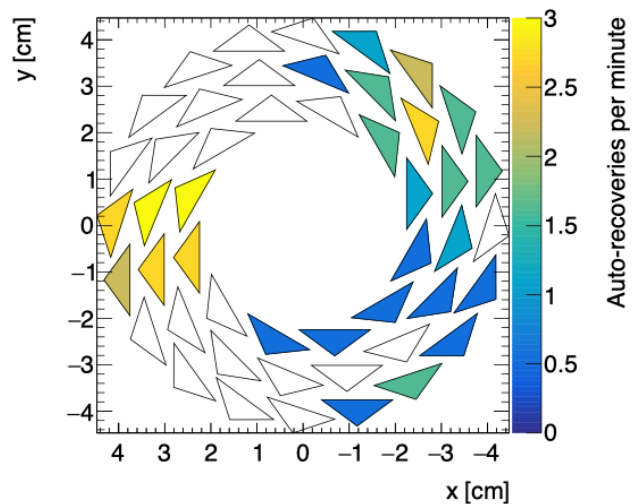
Calo Based Detectors Timed In! Within 1 hour of first collisions

- Timing settings from Run 24 were mostly correct
- Fine adjustment of the MBD brought everything in line

MVTX Streaming (6x6)

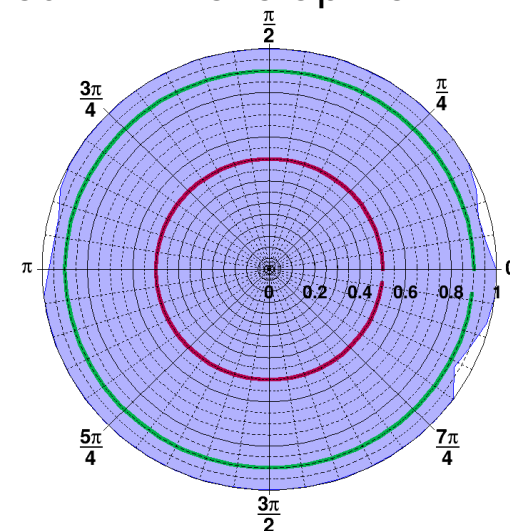
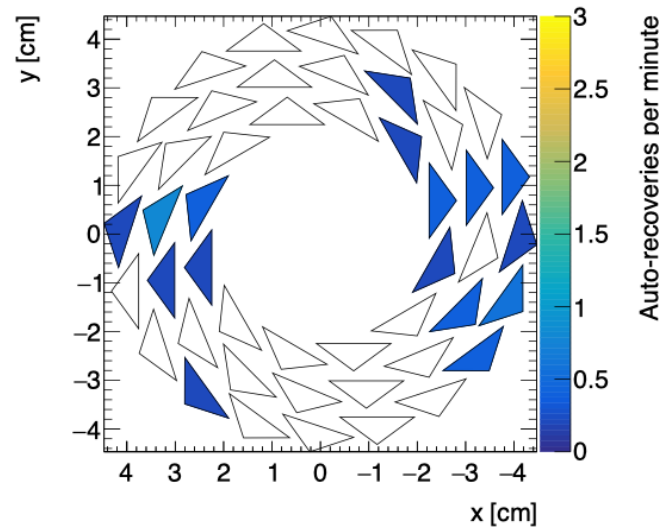
From 9 am Meeting Today

High Background (First Fills)



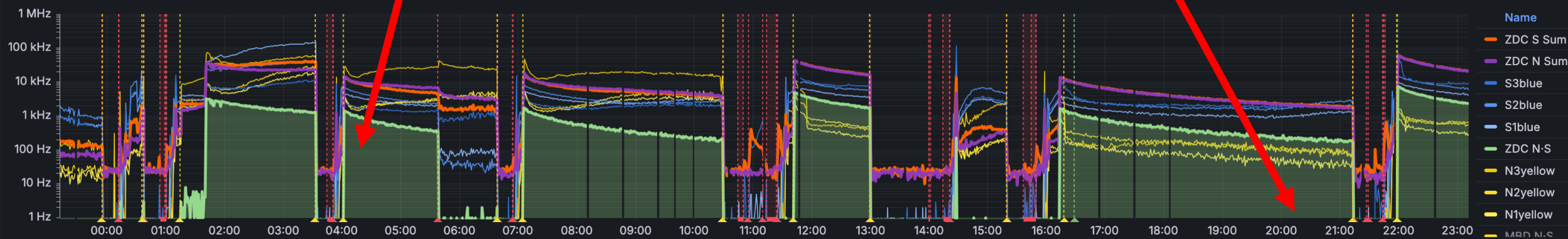
Fill 35578

Background Improved with Development

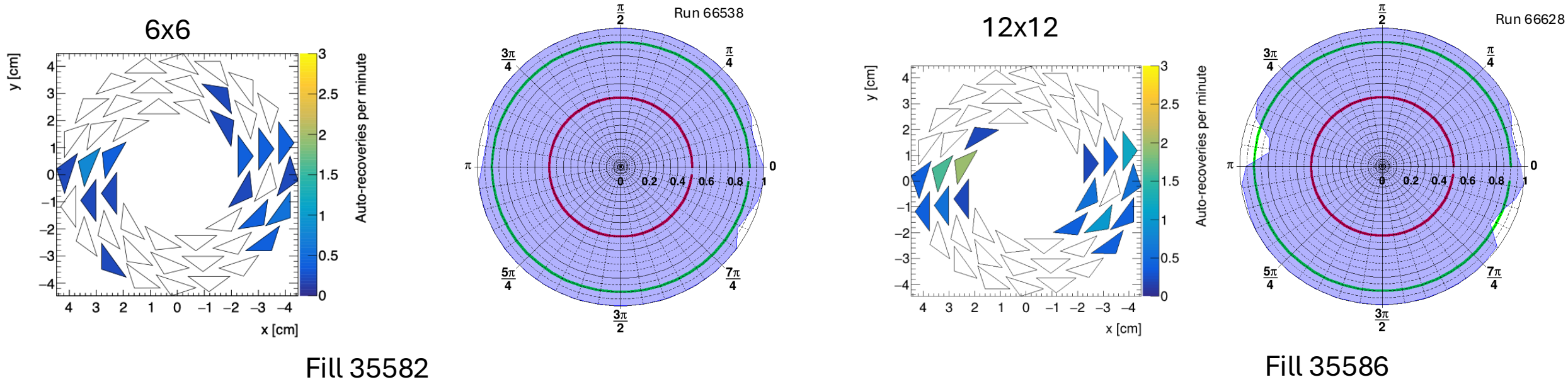


Fill 35582

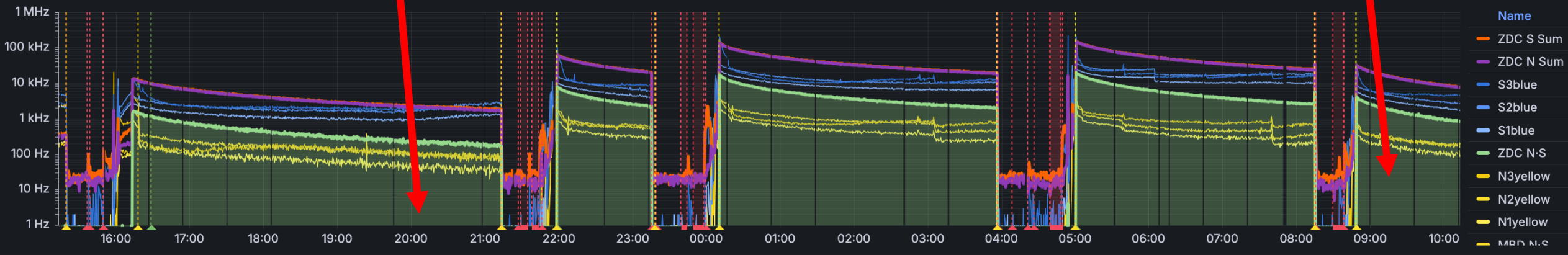
CAD Scalars on ZDC and Background Counters



MVTX Streaming (6x6 vs 12x12)



CAD Scalars on ZDC and Background Counters



Current Status

- Thank C-AD for their hard work in getting us to this exciting point in Run 25
- In Physics Production calorimeter-only mode, sPHENIX is fully ready to run at full rate and intensity
- We have run in physics mode with all detectors with 6x6 and 12x12
 - Low level checks of the trackers are positive
- TPC high-voltage upgrade is running successfully (commissioning with increase in luminosity)
- Ongoing close collaboration with C-AD on MVTX background mitigation strategies