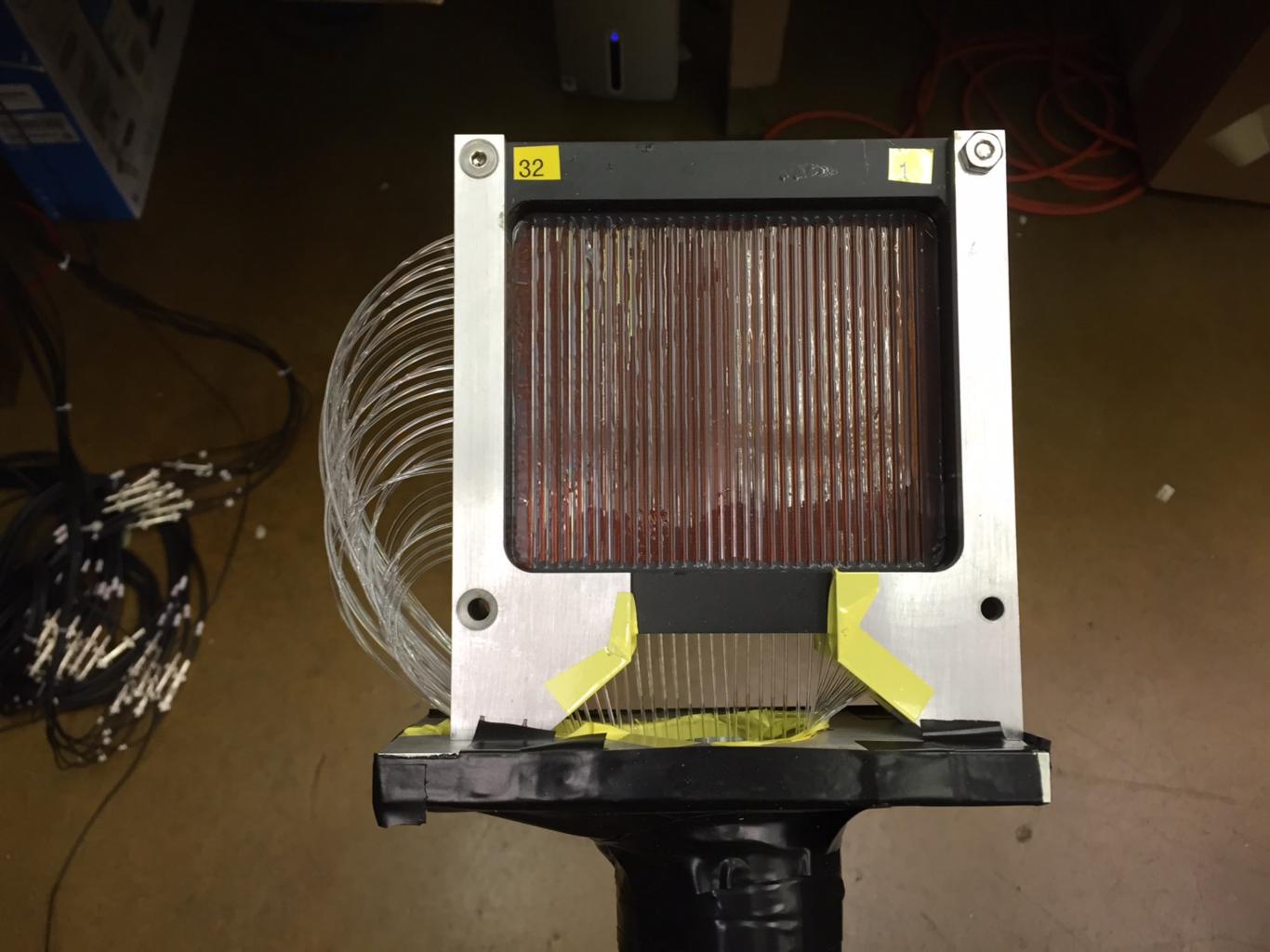
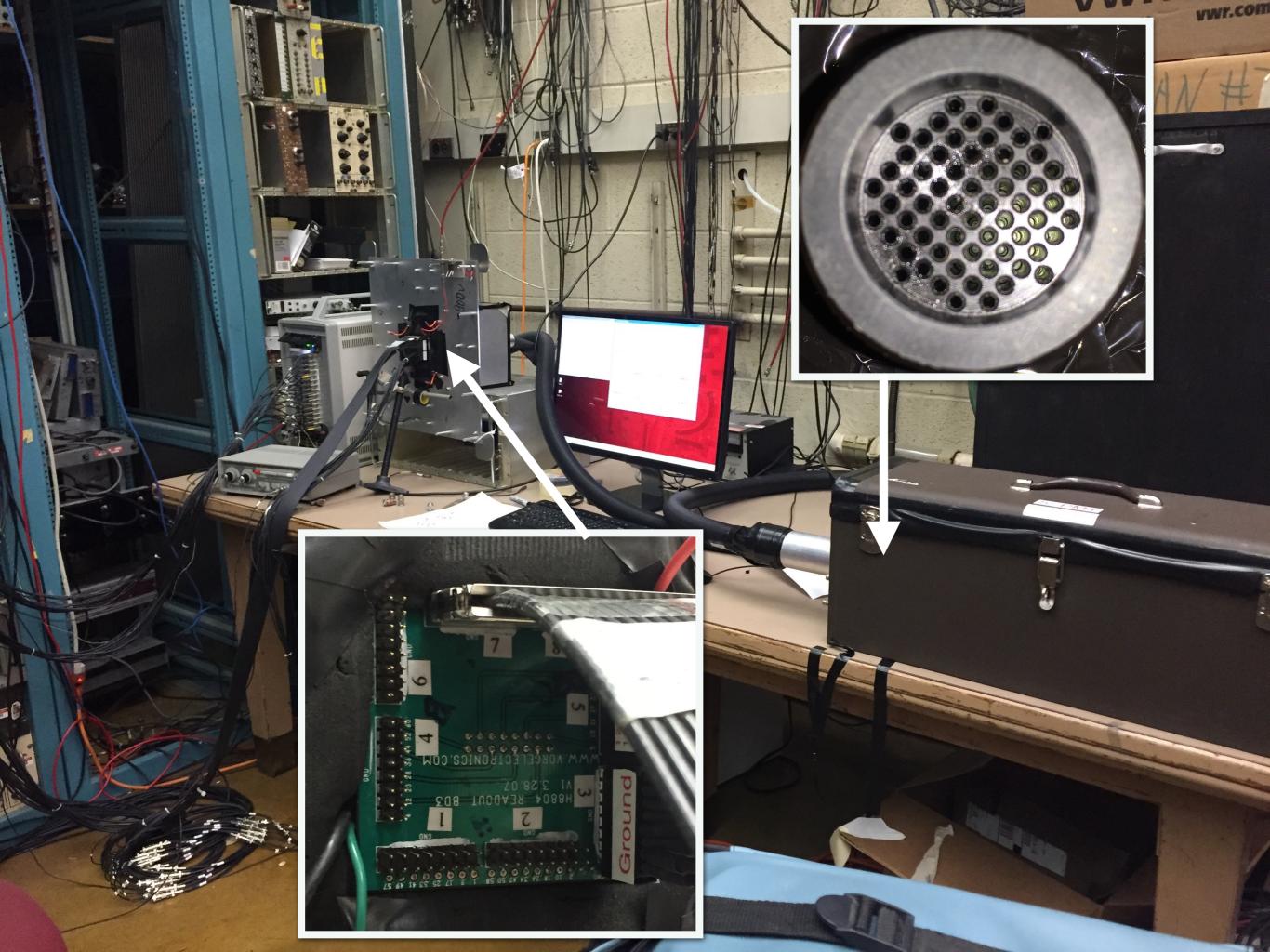
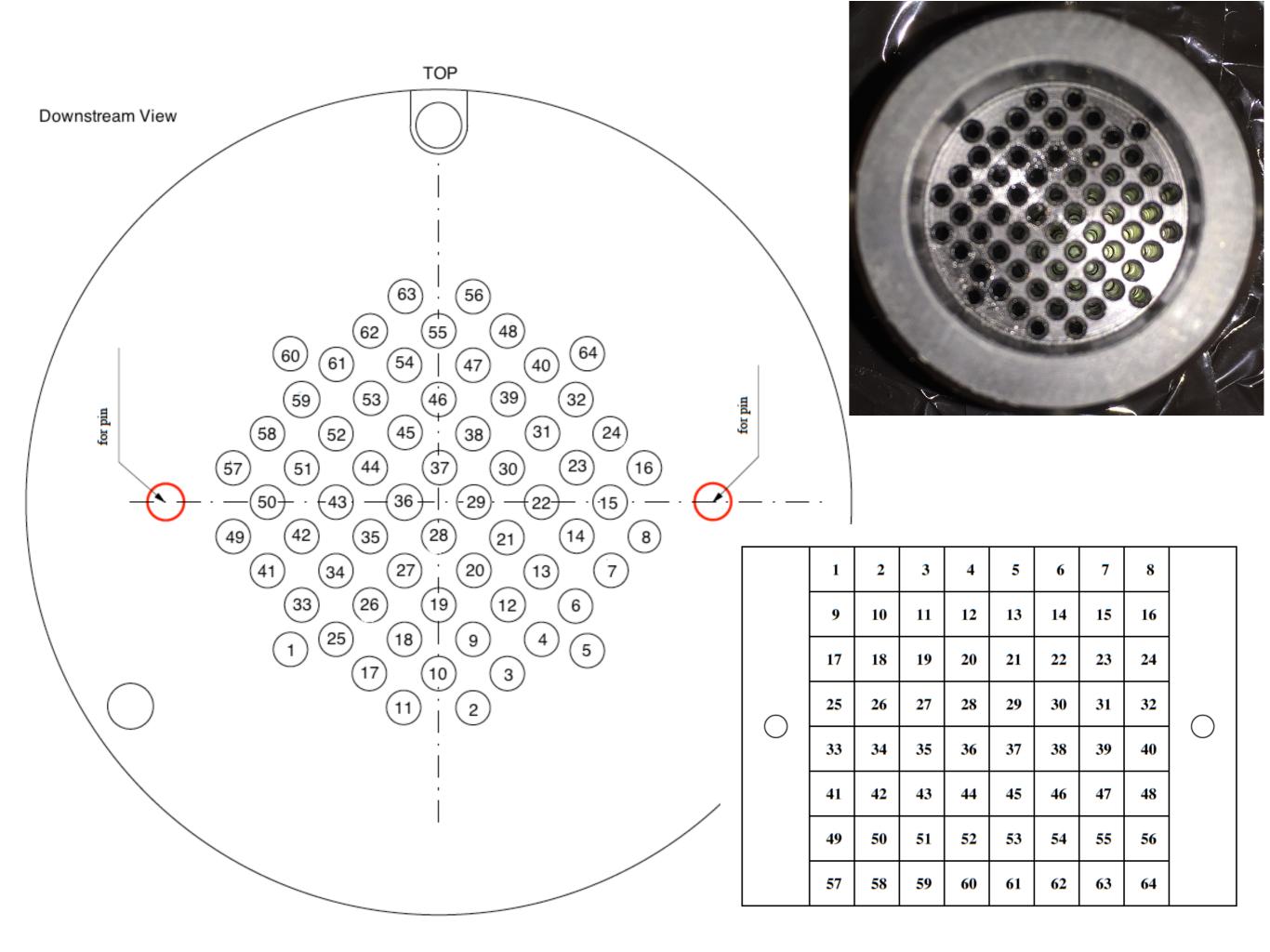
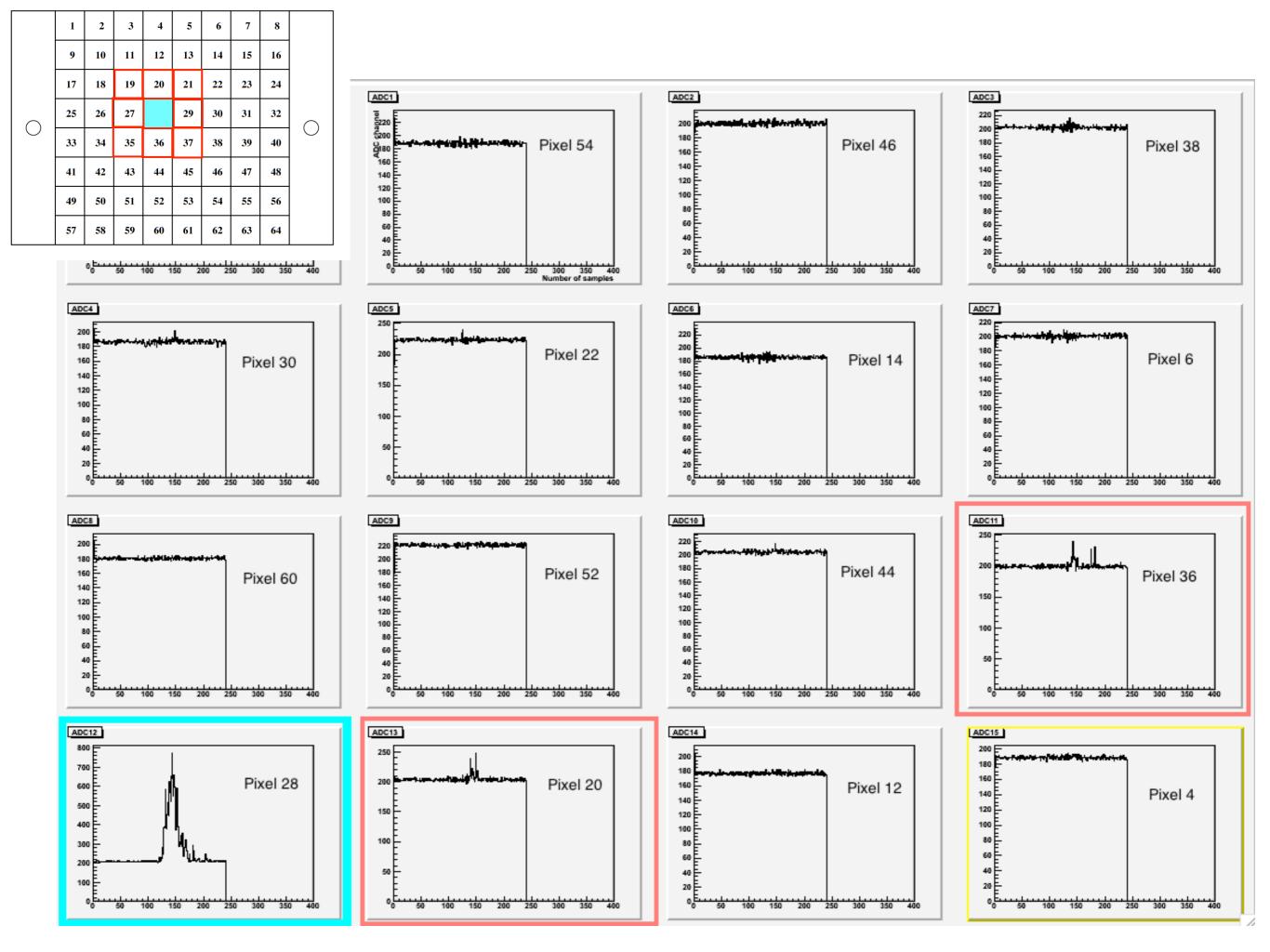
SciFi Crosstalk

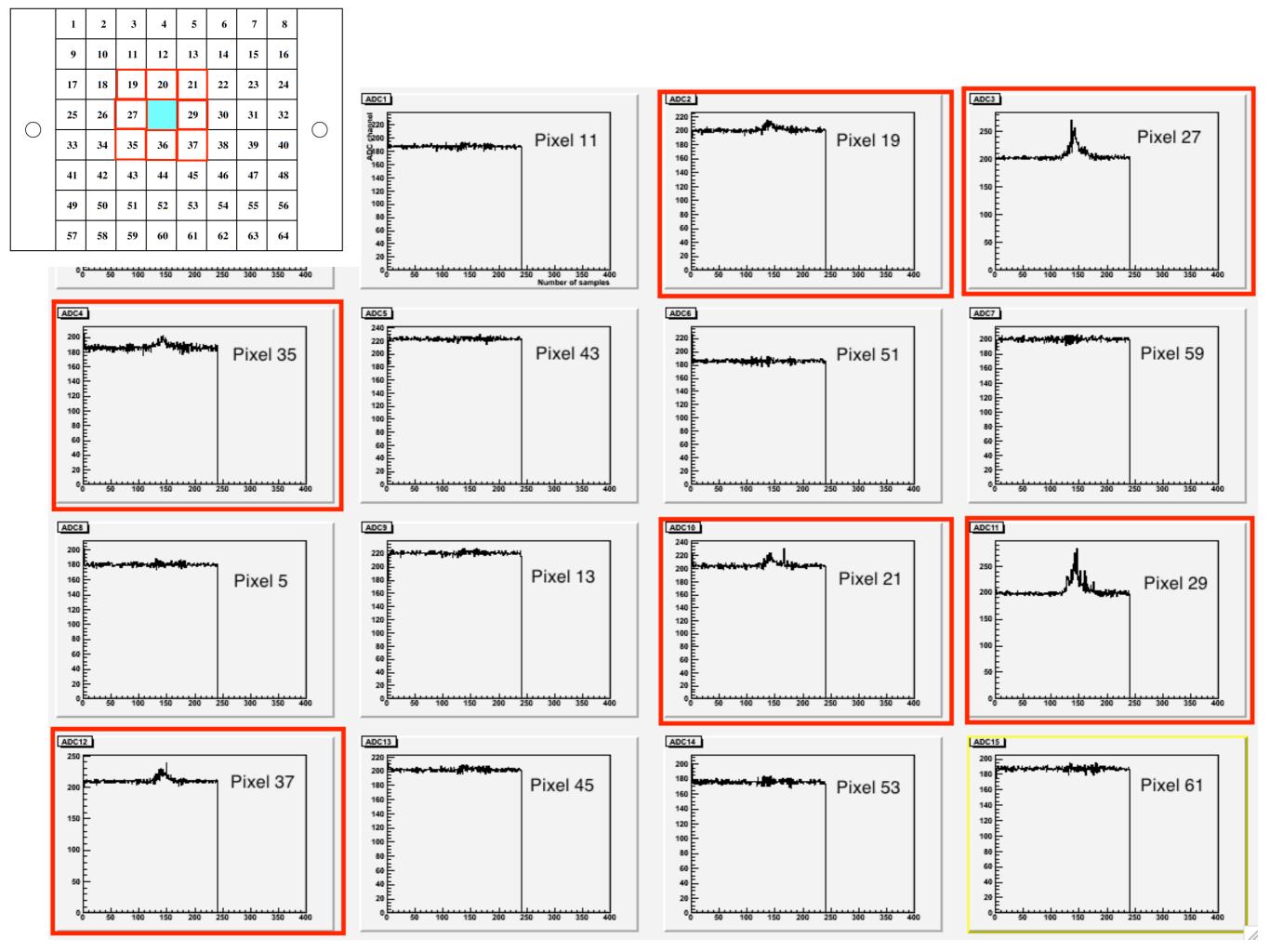
Alexa Johnson Carnegie Mellon University







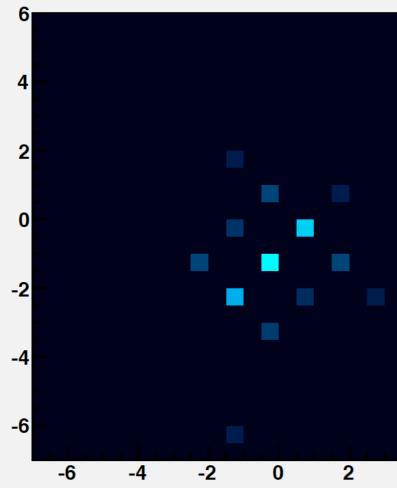


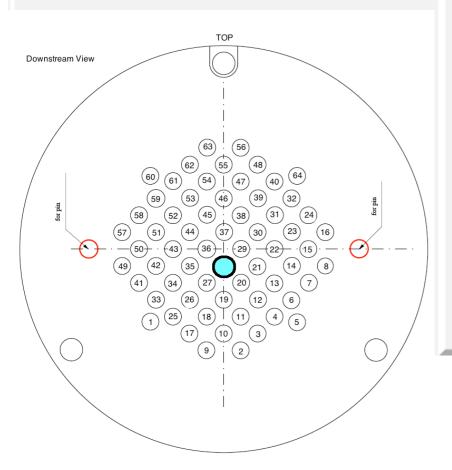


Normalized Pixel Signal 0.000048 0.001001 0.000567 -0.000336 0.000721 0.000647 0.001397 7 0.000427 0.000056 0.003464 0.001707 0.004736 0.000301 0.001009 0.000599 6 0.000267 0.000533 0.022726 0.014683 0.025958 0.001026 0.001111 0.000687 5 0.000103 0.000358 0.085700 1.000000 0.133419 0.004316 0.001663 0.001016 4 0.000080 0.000496 0.023730 0.001534 0.001321 0.001028 0.018841 0.027346 3 0.000028 -0.000084 0.003081 0.001148 0.004235 0.000411 0.000830 0.000754 2 0.000263 0.001110 0.000026 0.001178 0.000551 0.000680 0.000101 0.000630 0.000164 0.000115 0.000411 0.000026 0.000217 -0.000698 -0.000050 0.000005 2 3 5 6 8 4

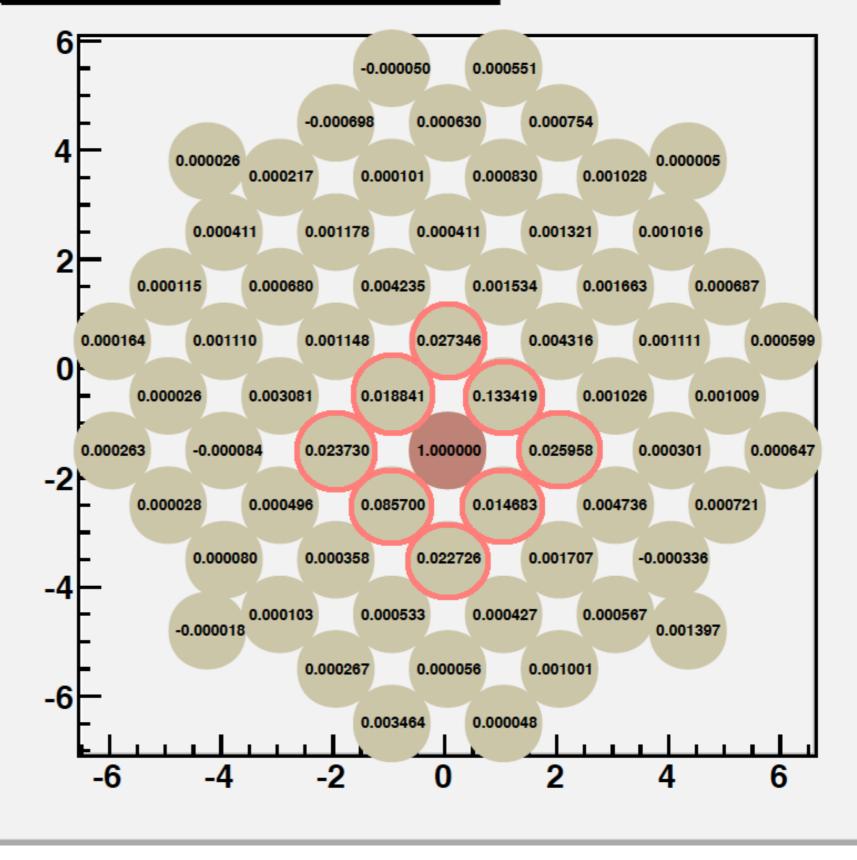
1	2	3	4	5	6	7	8	
9	10	11	12	13	14	15	16	
17	18	19	20	21	22	23	24	
25	26	27		29	30	31	32	(
33	34	35	36	37	38	39	40	
41	42	43	44	45	46	47	48	
49	50	51	52	53	54	55	56	
57	58	59	60	61	62	63	64	

Normalized Fiber Signal





Normalized Fiber Signal



Normalized Pixel Signal 8 1.000000 0.071455 0.016652 -0.000138 0.001521

-0.000359

0.000776

0.000629

							1								
							7	0.029089	0.006406	0.008551	0.000333	0.001425	0.000288	0.000693	0.000028
							6	0.000963	0.001459	0.004170	0.000412	0.001266	-0.000068	0.000612	0.000739
							5	0.000271	0.000732	0.002253	0.000192	0.001272	-0.000308	0.000733	0.000878
							4	0.000092	0.000766	0.001734	0.000124	0.001327	-0.000157	0.000628	0.000863
							3	-0.000437	0.000047	0.001813	0.000103	0.001219	-0.000458	0.000640	0.000628
3	4	5	6	7	8		2	-0.000053	0.000123	0.001735	0.000563	0.001112	-0.000192	0.000602	0.000435
11	12	13	14	15	16										
19	20	21	22	23	24		1	0.000011	0.000523	0.001958	0.000019	0.000553	-0.001171	0.000136	0.000234
27	28	29	30	31	32			1		3	4	5	6	7	8
35	36	37	38	39	40			•	_	J	•	J	J	•	Ü
43	44	45	46	47	48		_								
						1									

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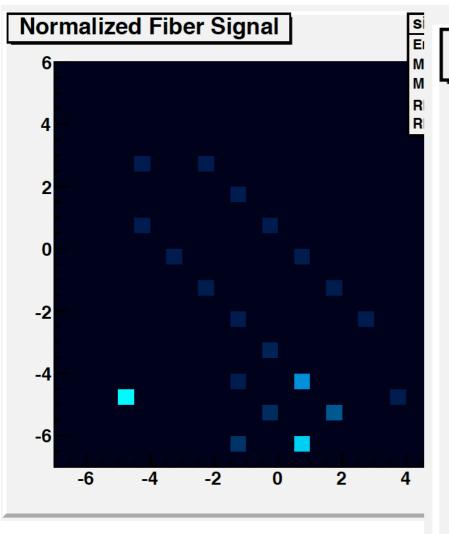
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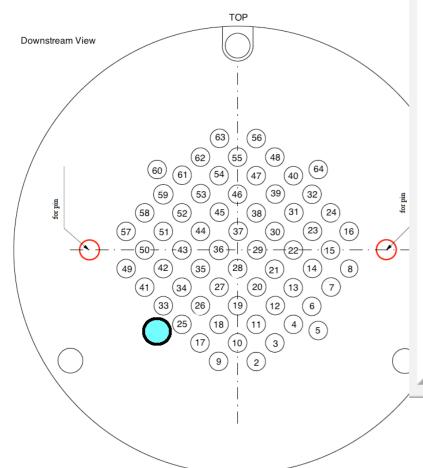
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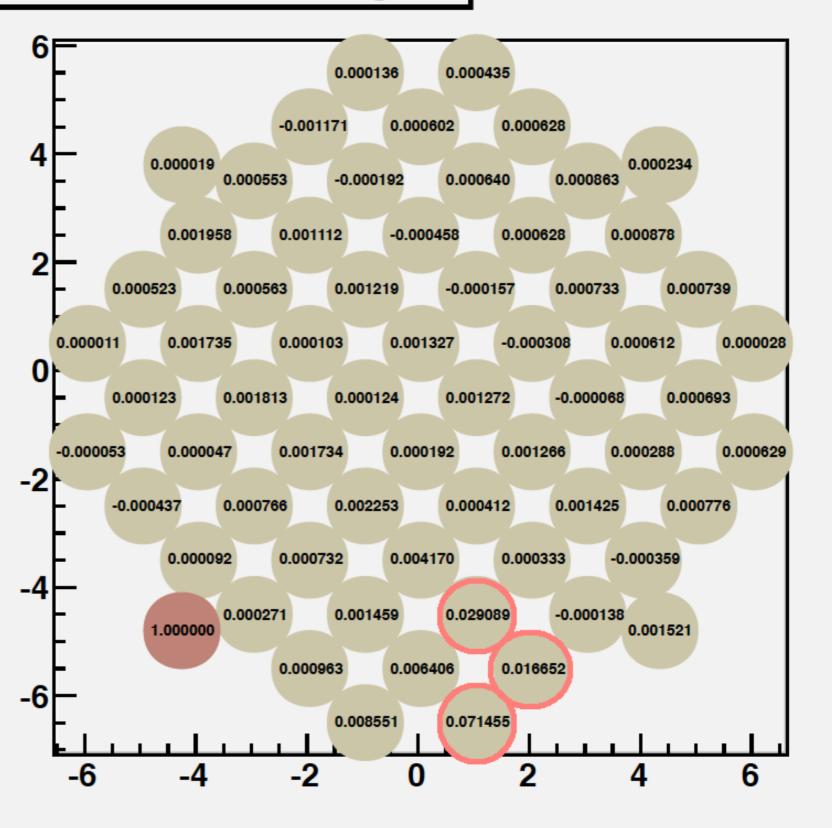
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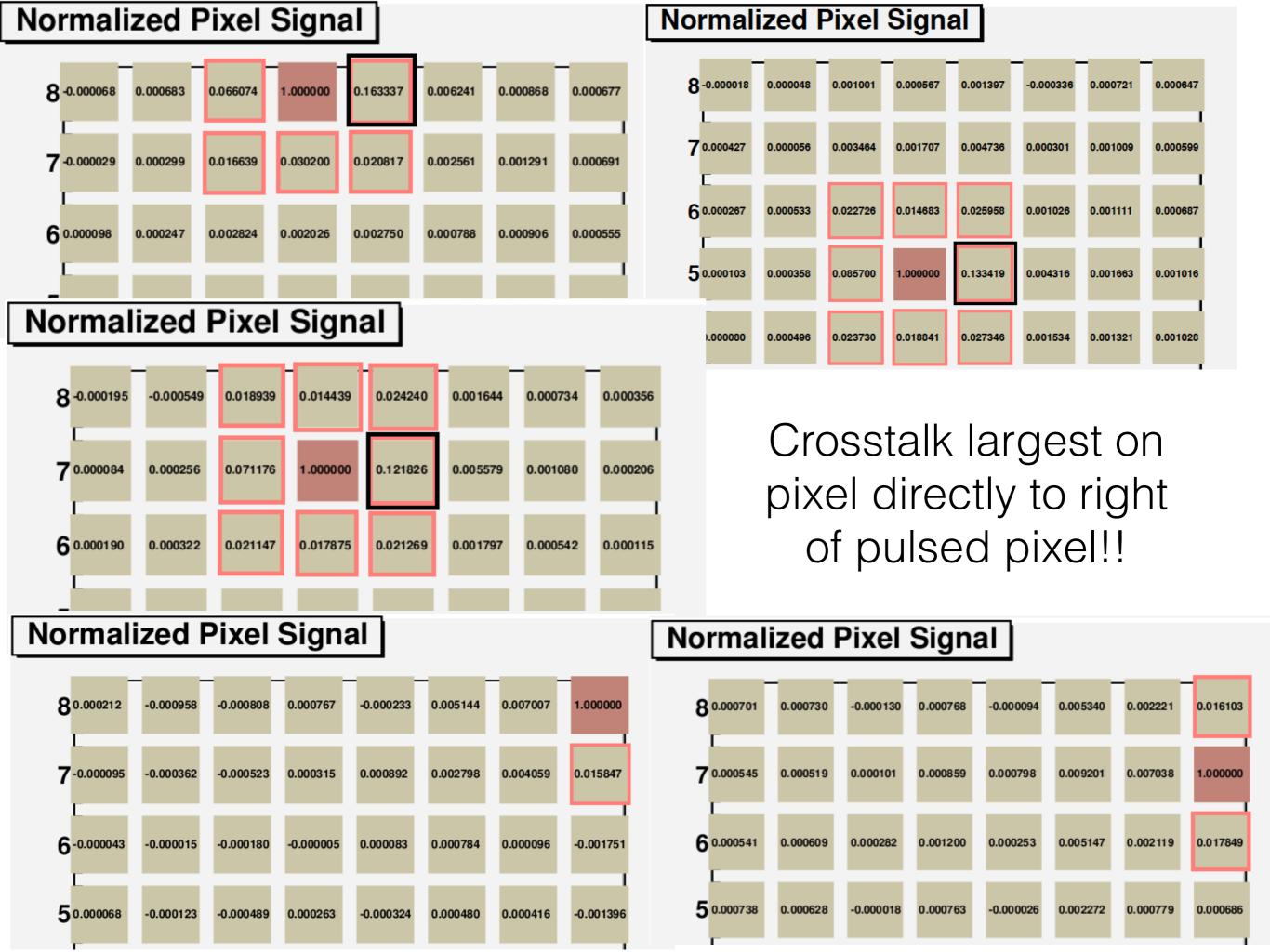
2





Normalized Fiber Signal





Crosstalk occurring at the PMT— either electronic, OR light is leaking due to misalignment at the entrance to PMT.

	1	2	3	4	5	6	7	8	
	9.	10	11 .	12	13	14	15	16	
	17	18	19	20	21	22	23	24	
	25	26	27	28	29	30	31	32	
	33	34	35	36	37	38	39	40	
	41	42	43	44	45	46	47	48	
	49	50	51	52	53	54	55	56	
	57	58	59	60	61	62	63	64	

~2% signal crosstalk in neighboring pixels, but seen to be as large as 16%