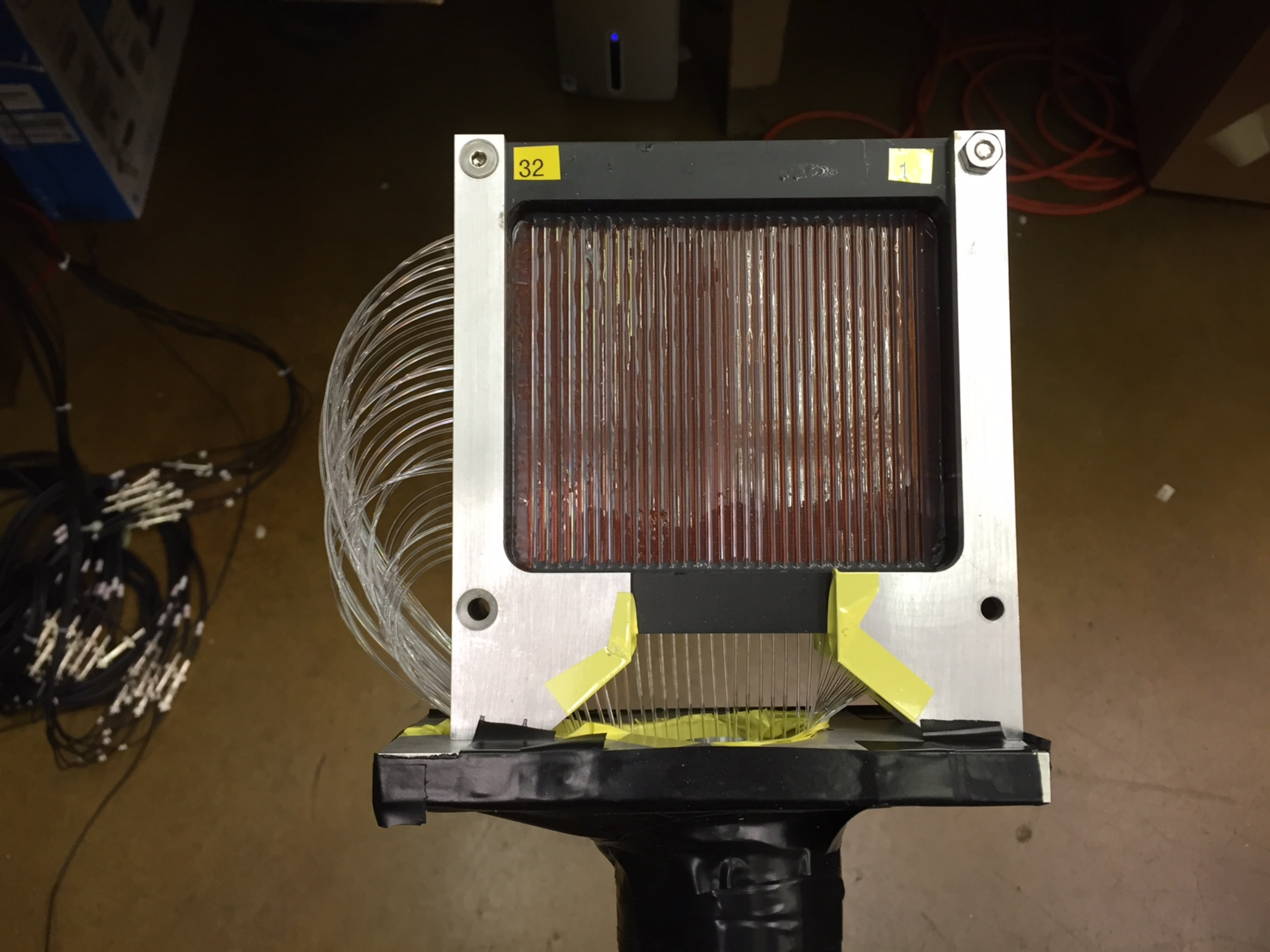
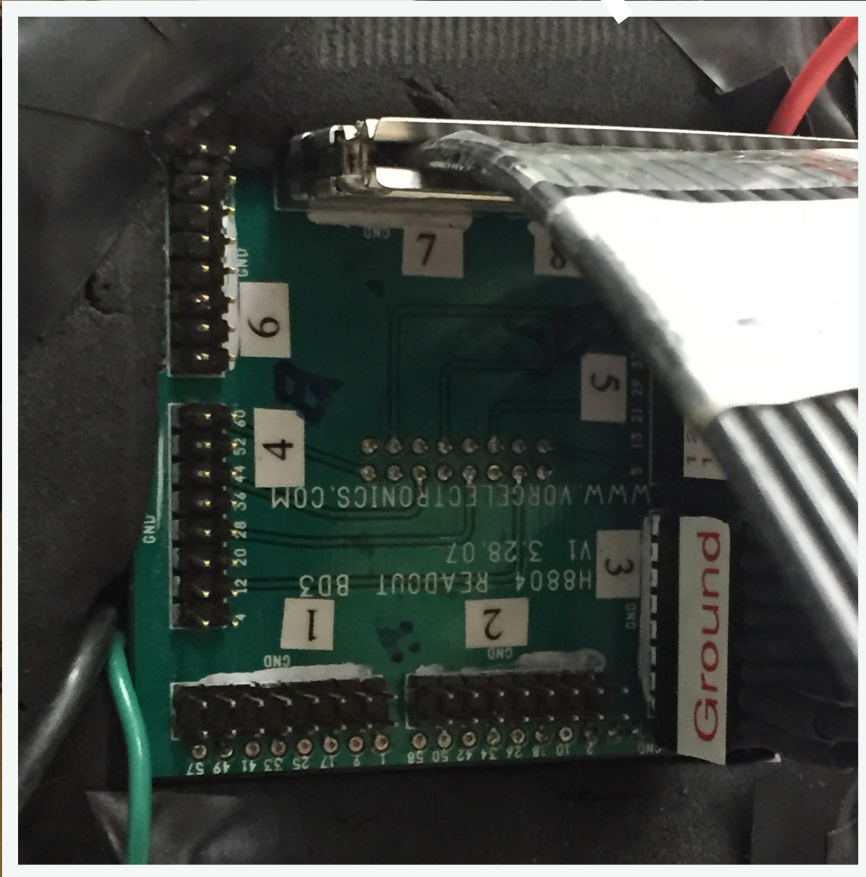
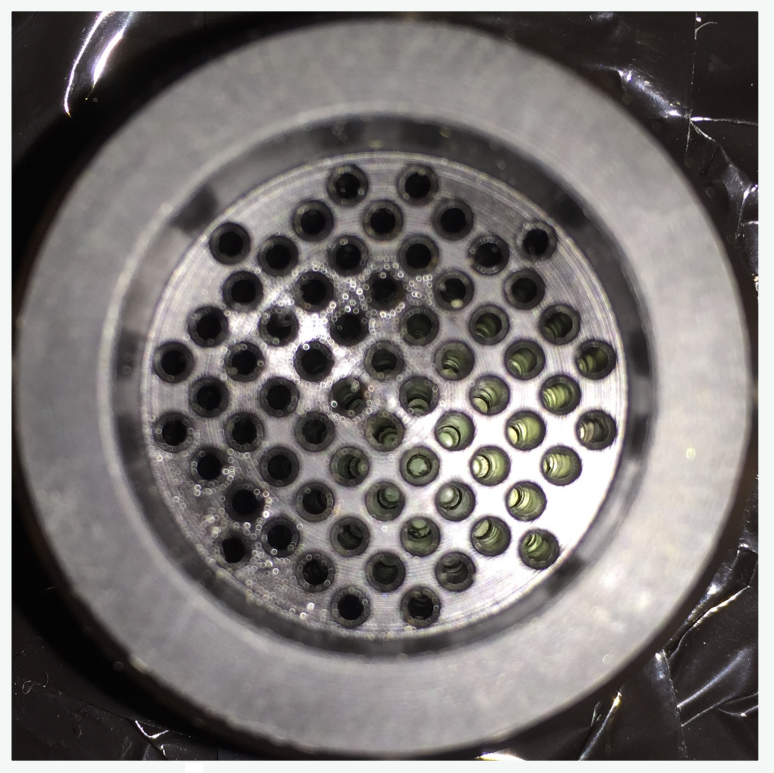
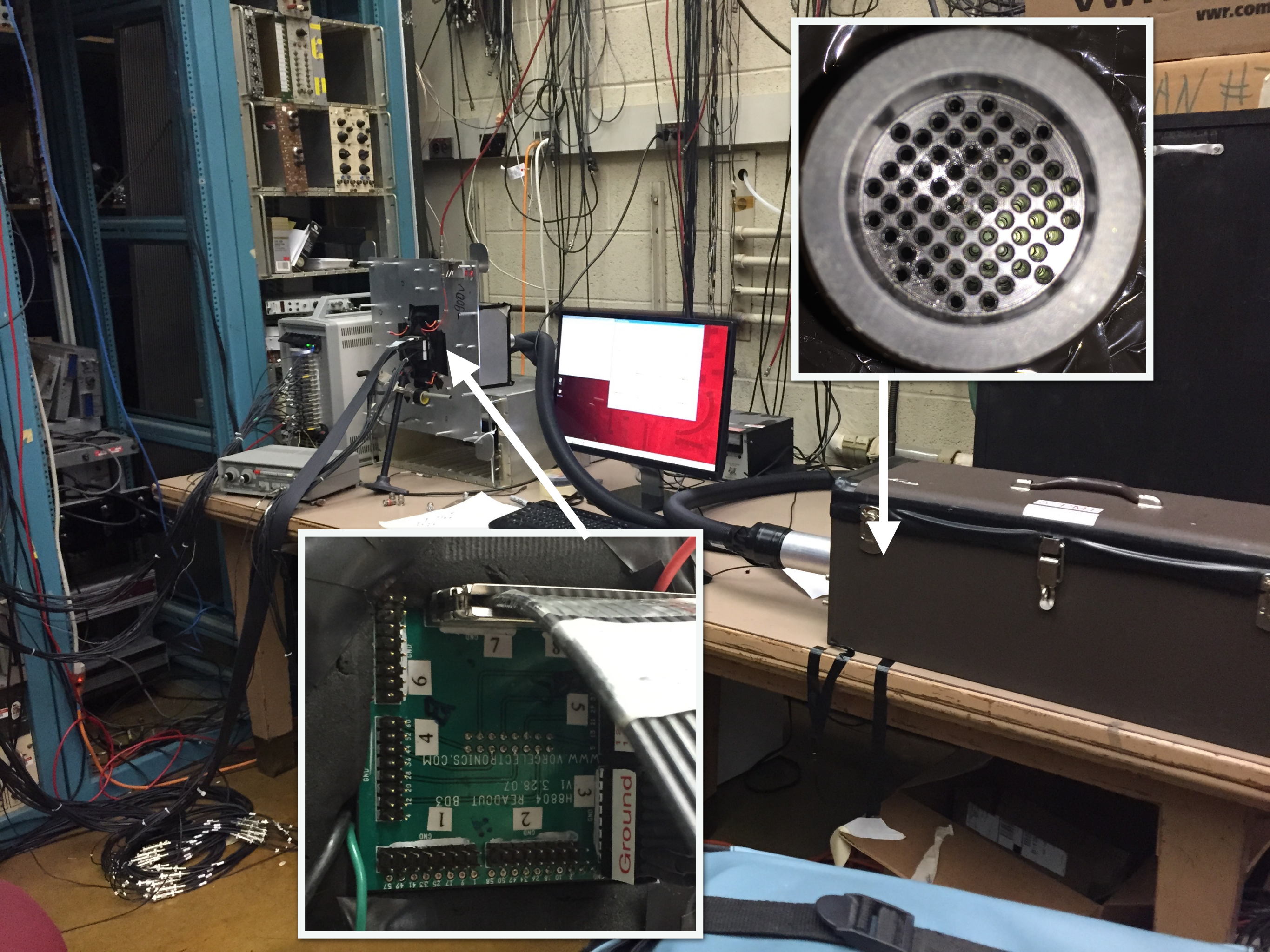


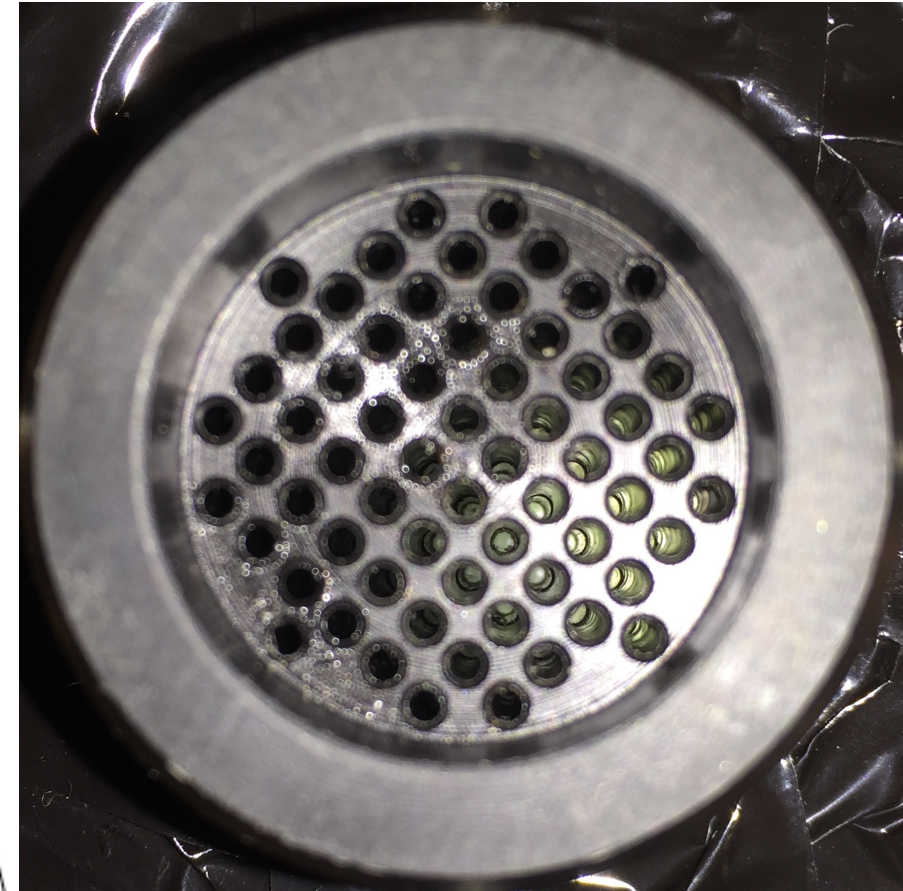
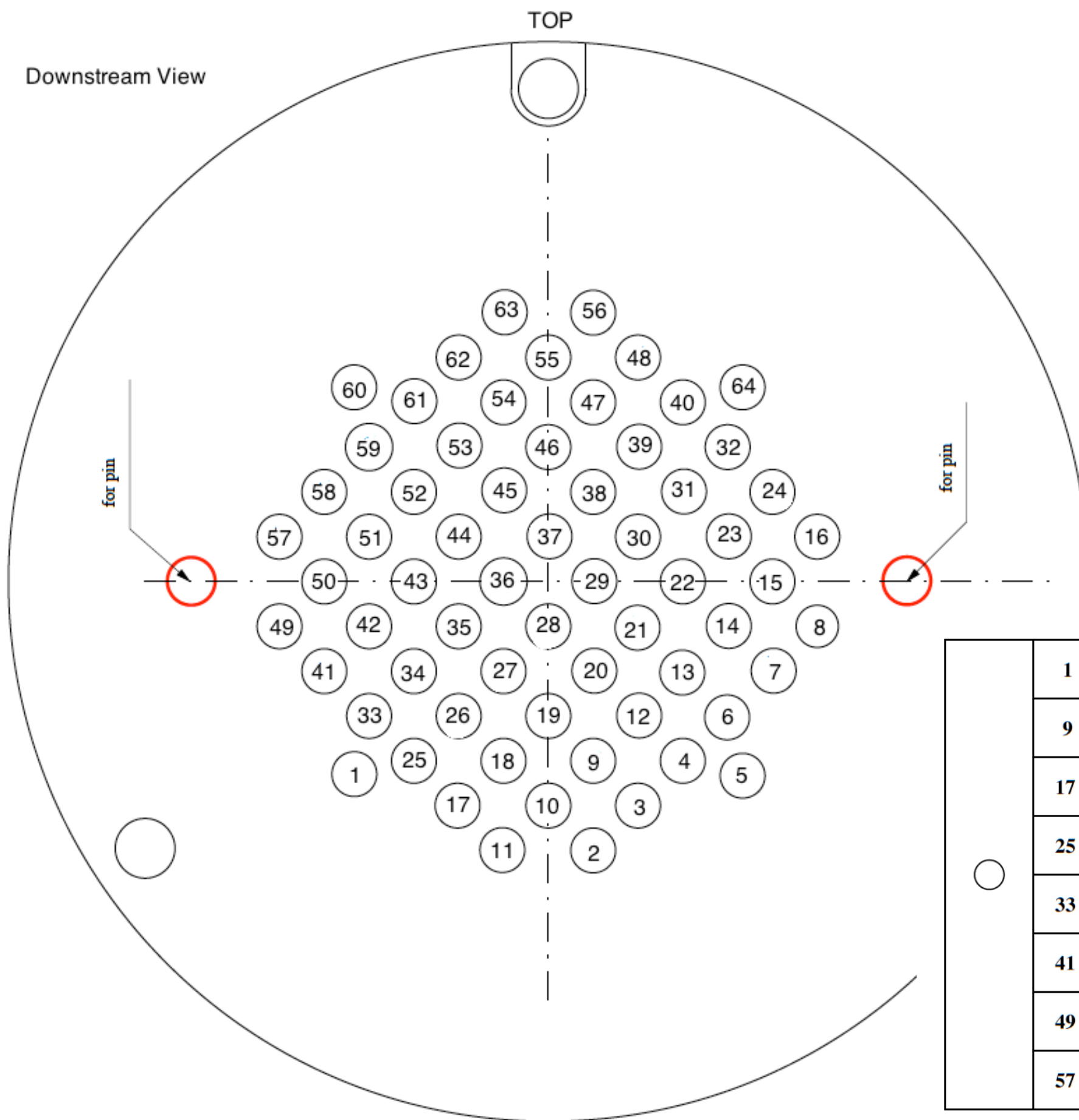
SciFi Crosstalk

Alexa Johnson
Carnegie Mellon University



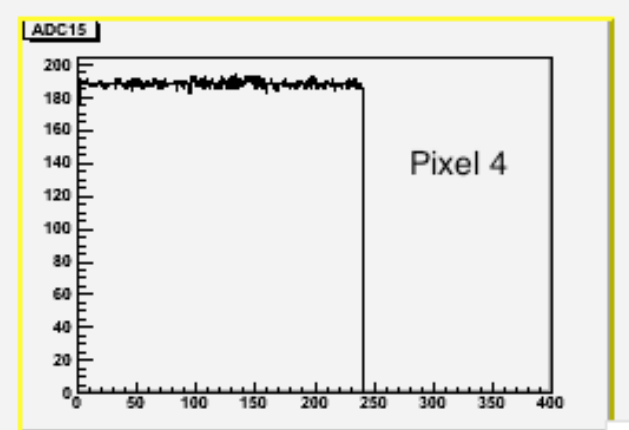
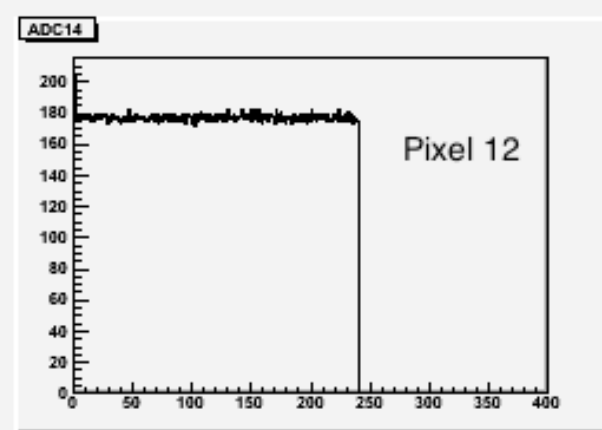
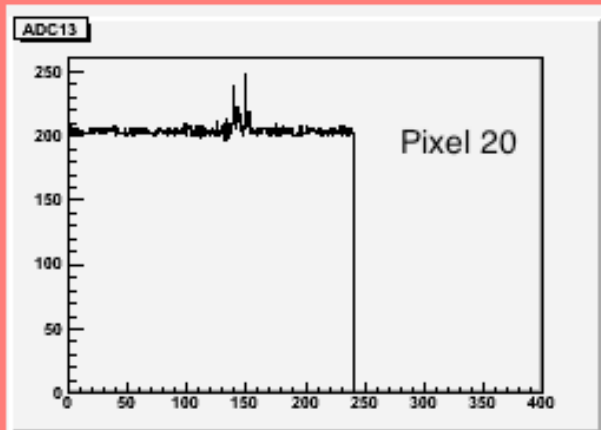
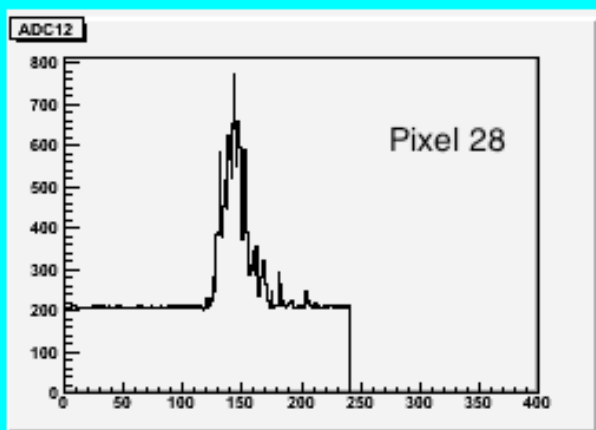
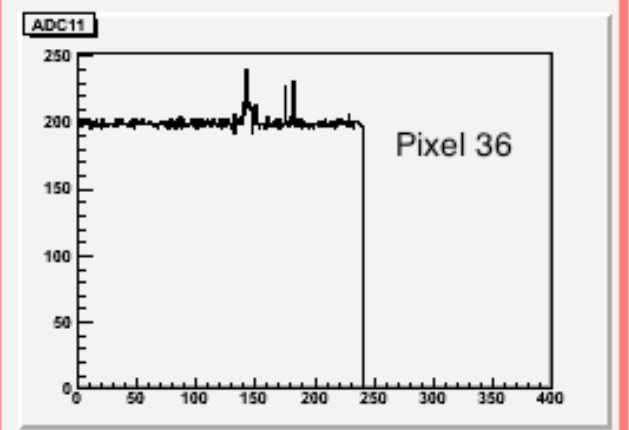
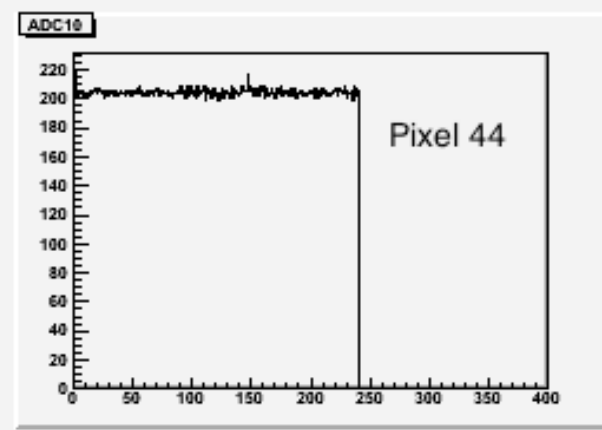
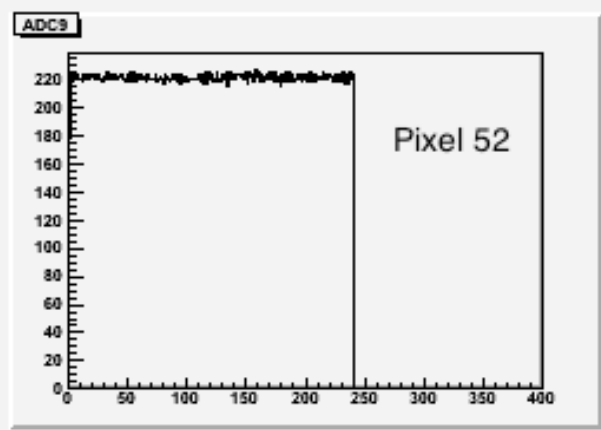
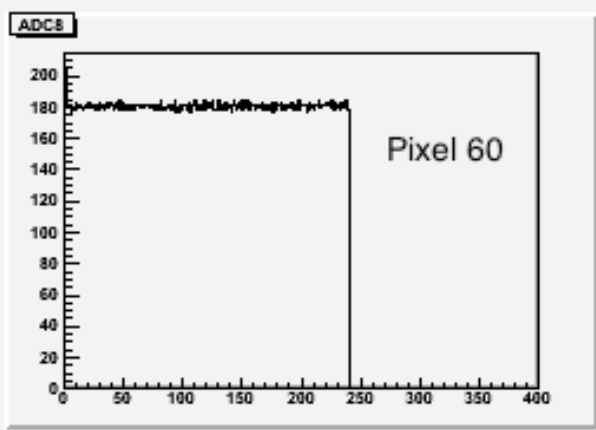
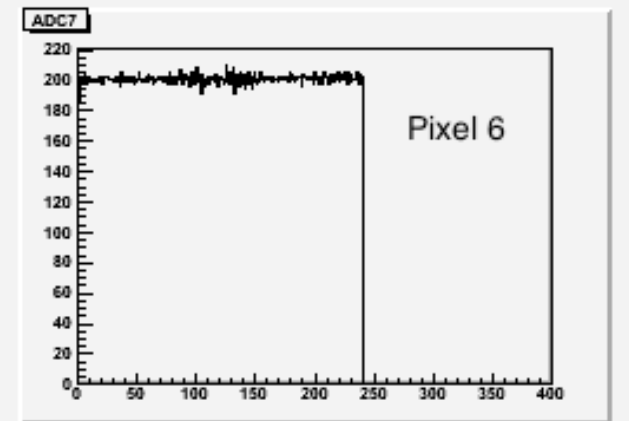
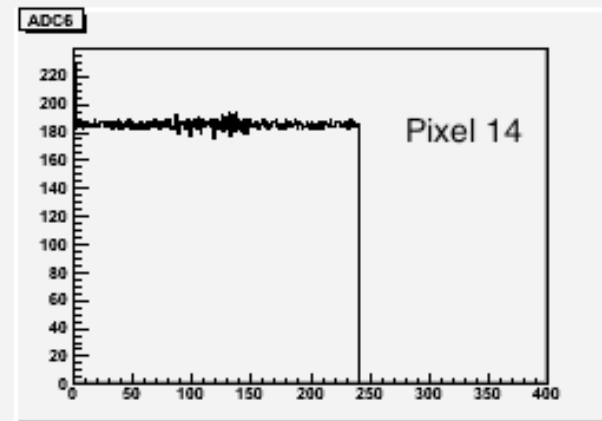
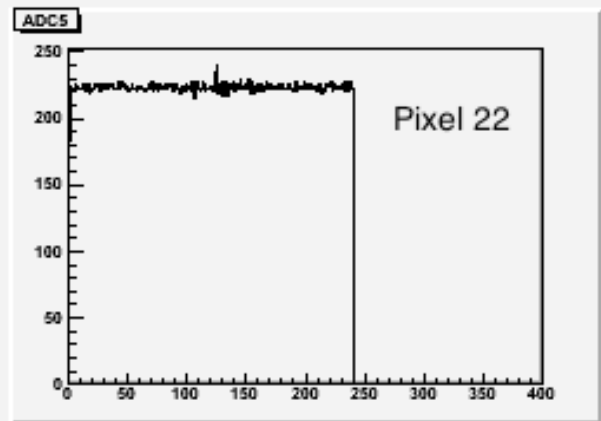
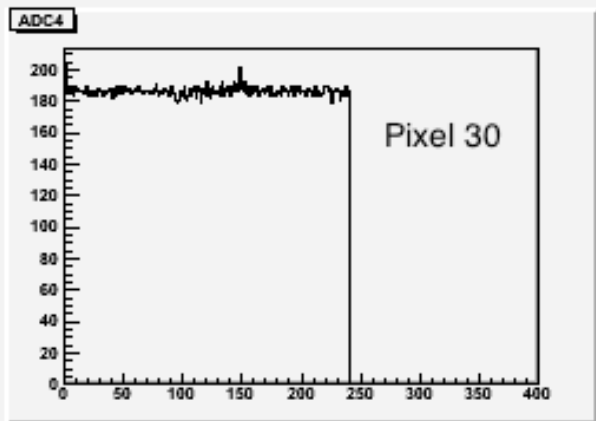
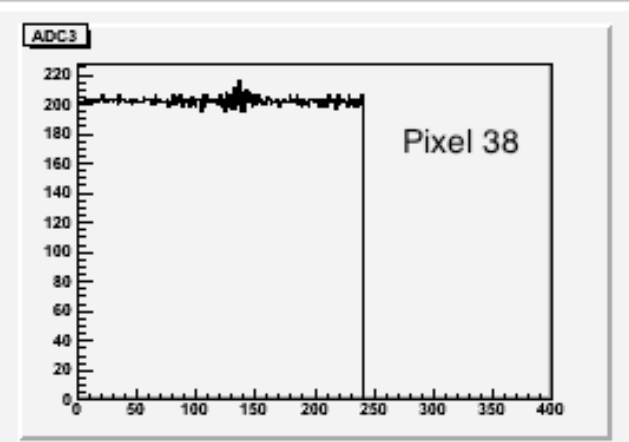
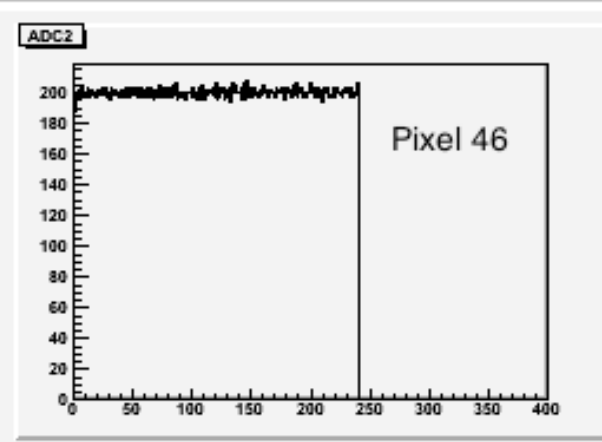
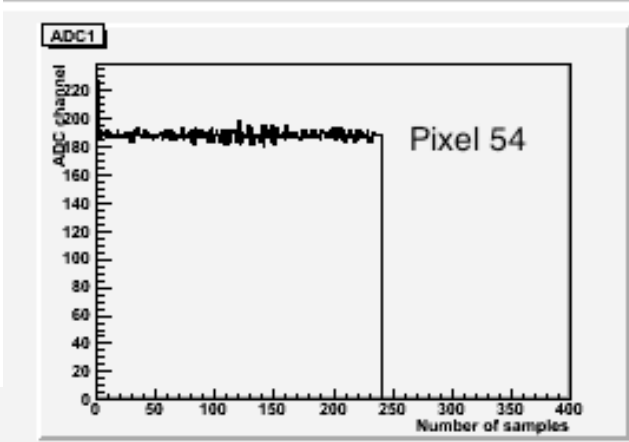


Downstream View

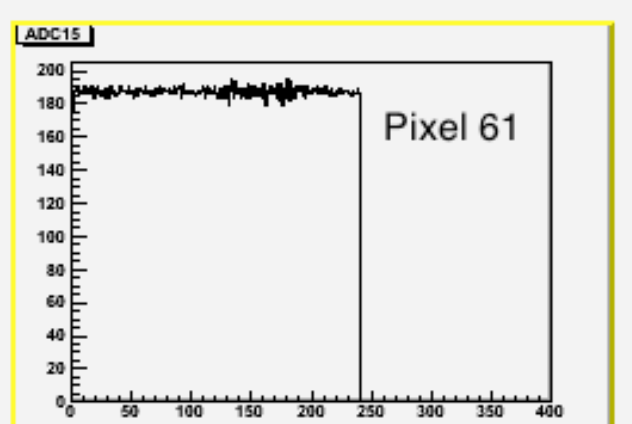
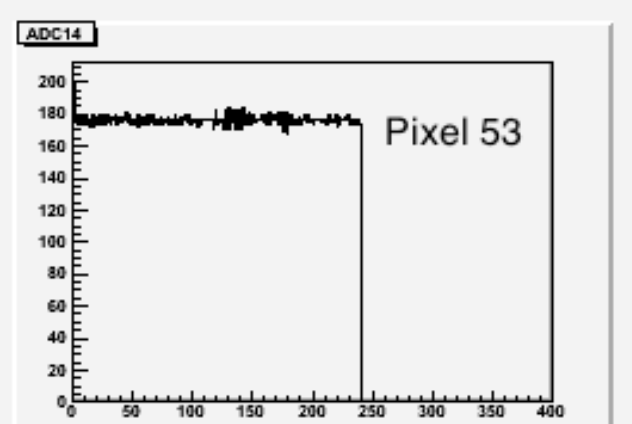
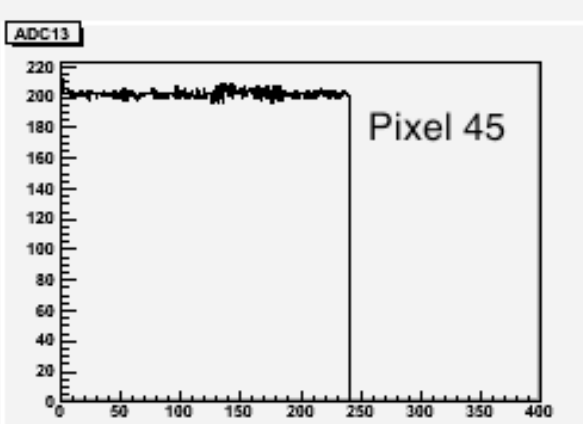
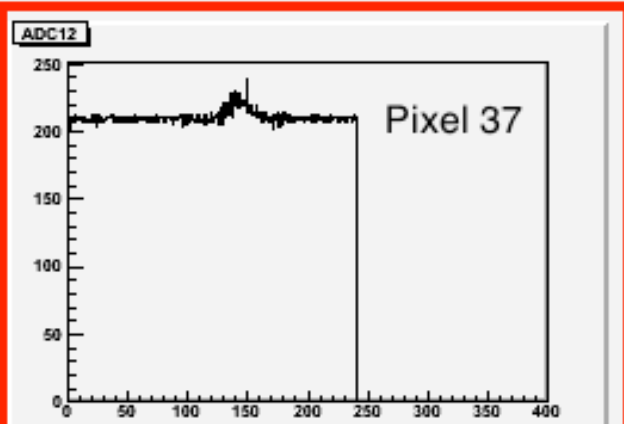
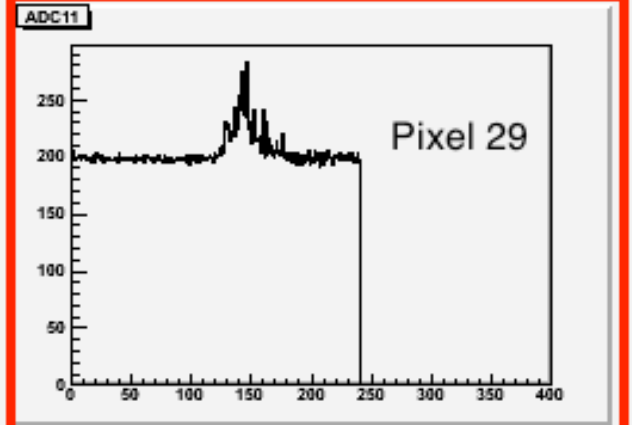
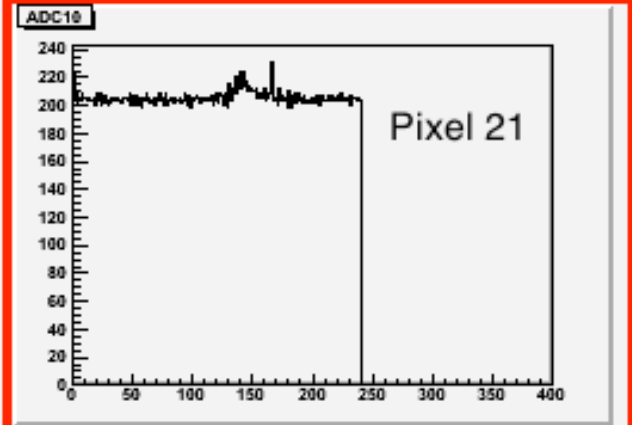
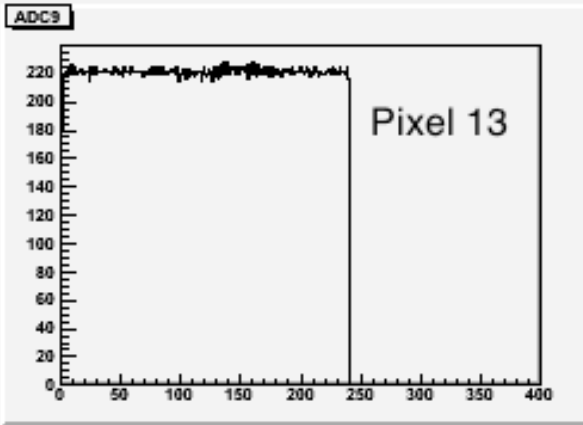
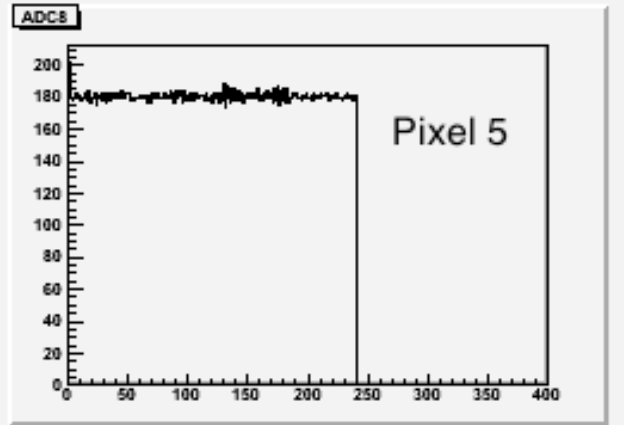
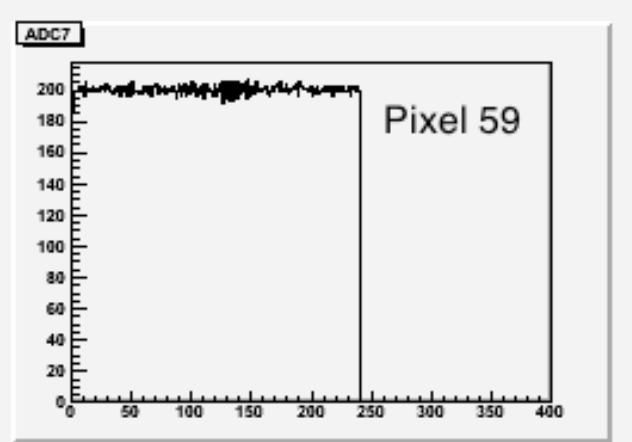
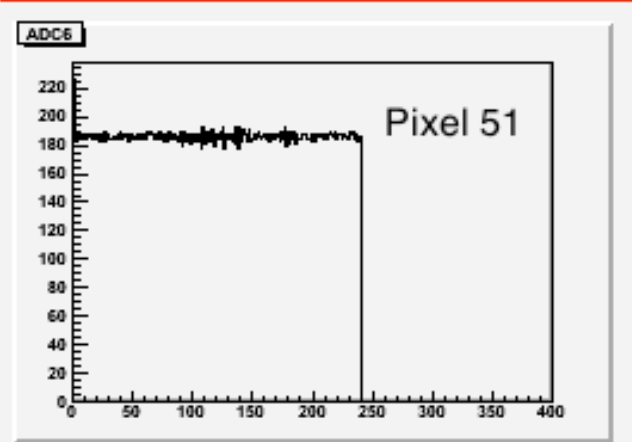
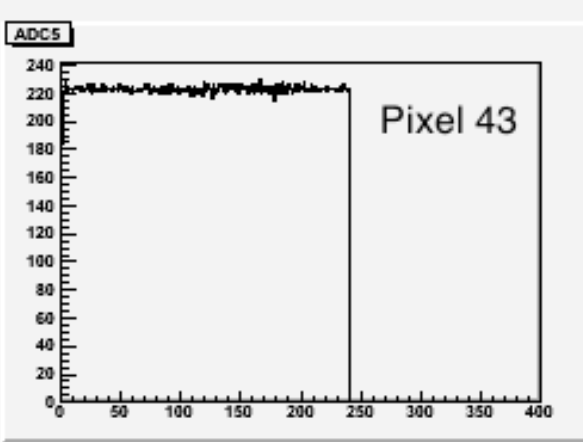
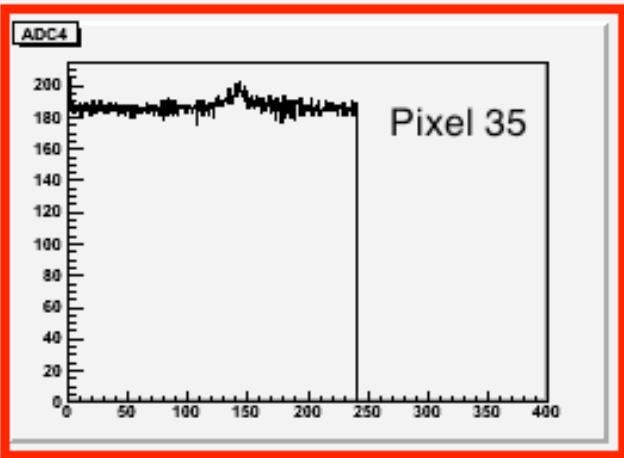
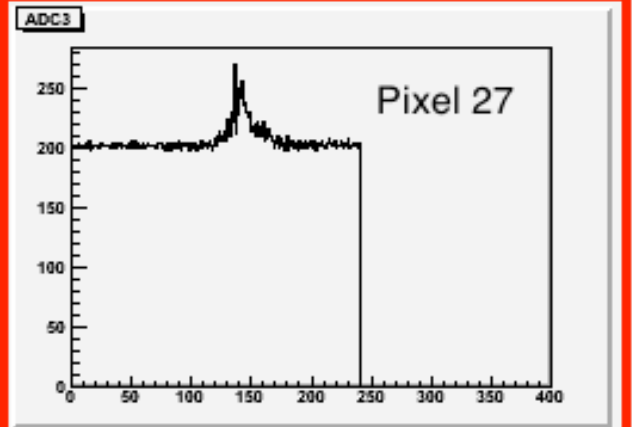
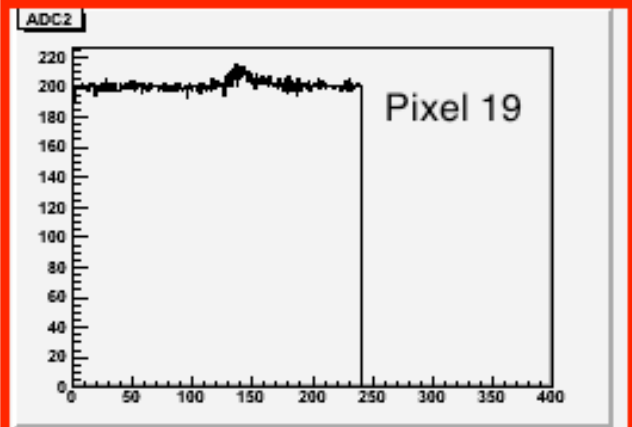
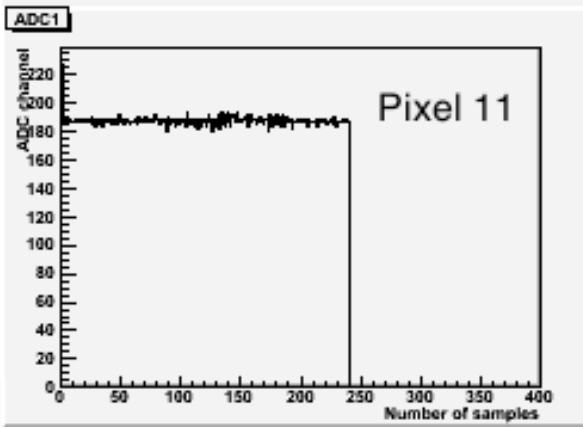


○	1	2	3	4	5	6	7	8	○
	9	10	11	12	13	14	15	16	
	17	18	19	20	21	22	23	24	
	25	26	27	28	29	30	31	32	
	33	34	35	36	37	38	39	40	
	41	42	43	44	45	46	47	48	
	49	50	51	52	53	54	55	56	
	57	58	59	60	61	62	63	64	

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

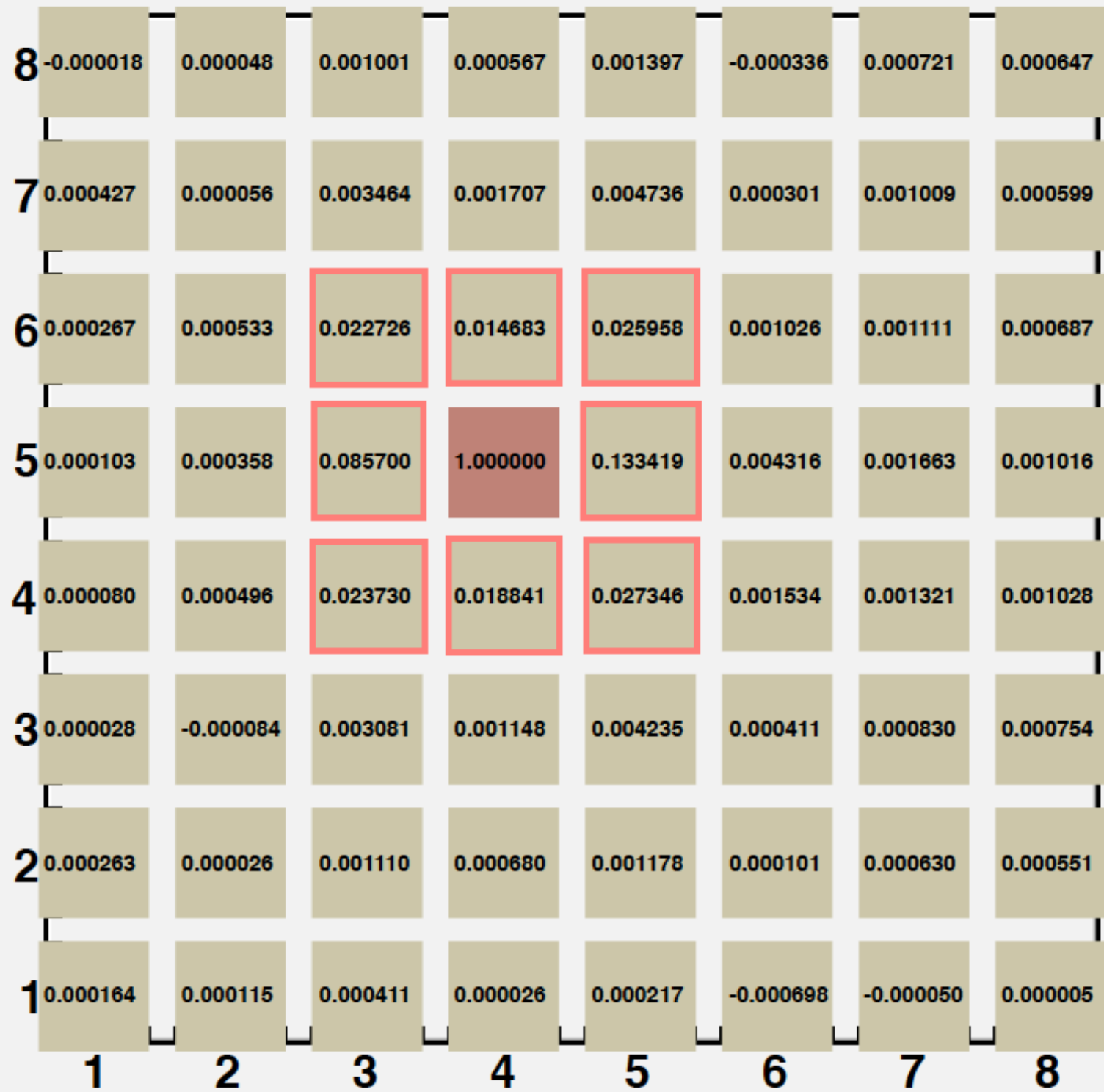


1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40
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57	58	59	60	61	62	63	64

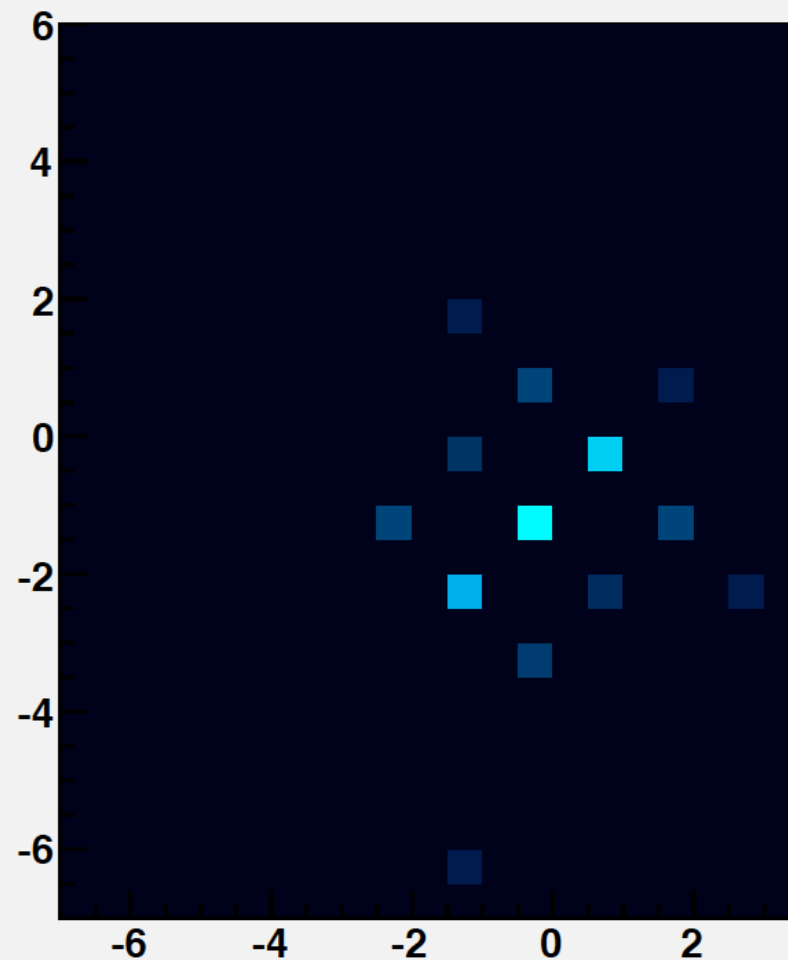


○	1	2	3	4	5	6	7	8	○
	9	10	11	12	13	14	15	16	
	17	18	19	20	21	22	23	24	
	25	26	27	28	29	30	31	32	
	33	34	35	36	37	38	39	40	
	41	42	43	44	45	46	47	48	
	49	50	51	52	53	54	55	56	
	57	58	59	60	61	62	63	64	

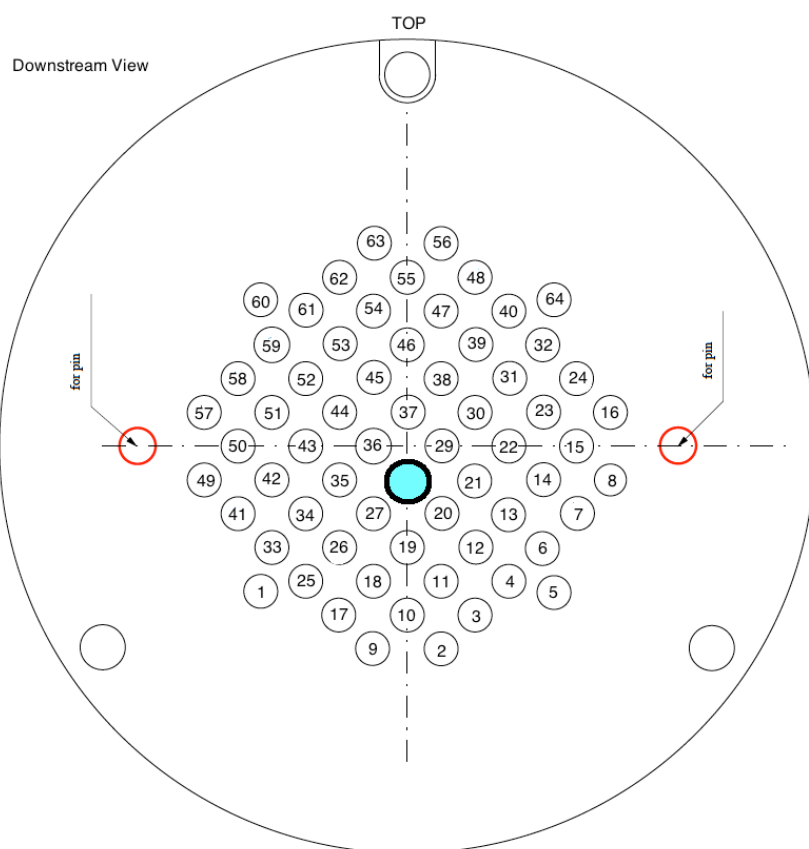
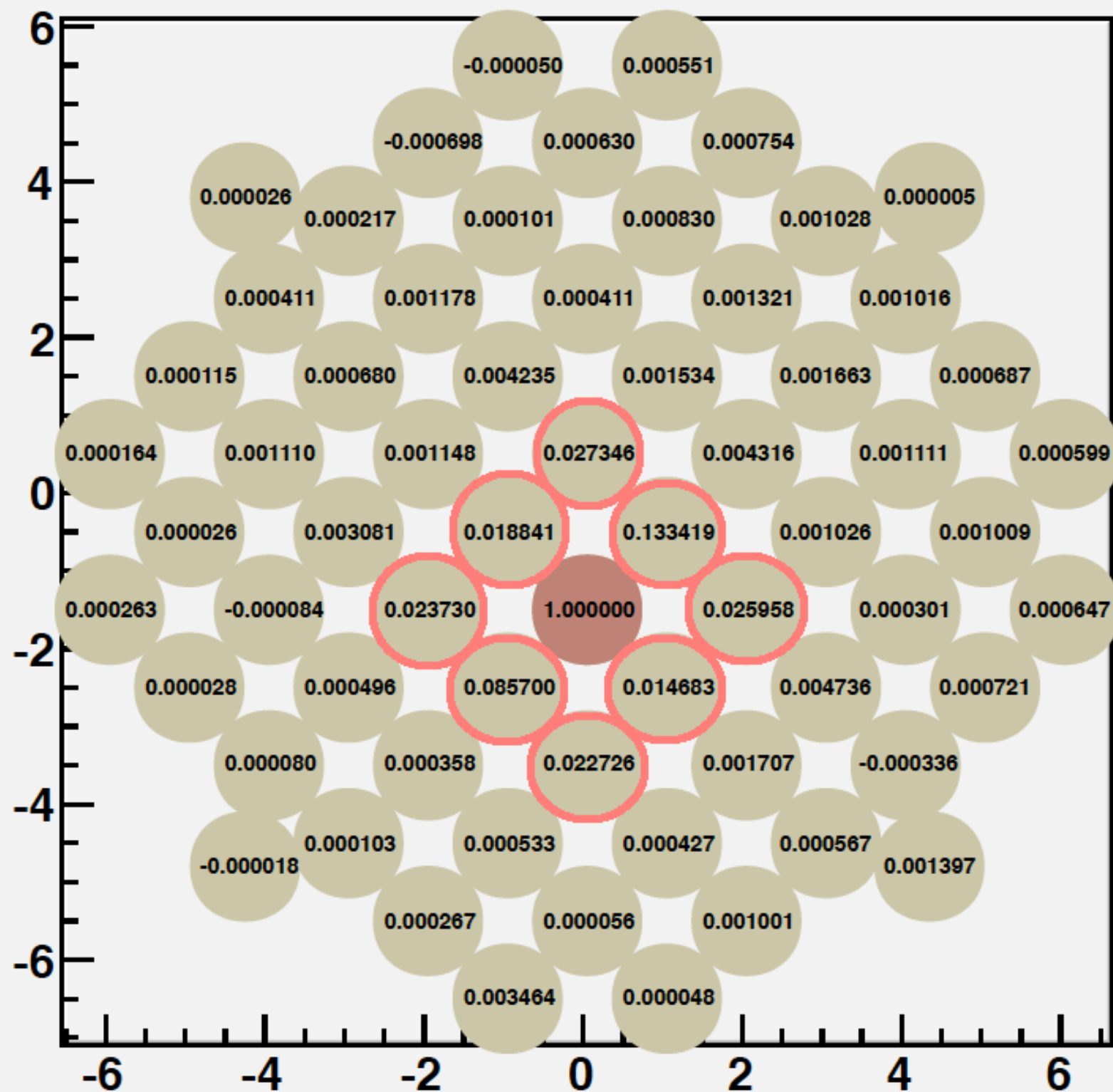
Normalized Pixel Signal



Normalized Fiber Signal

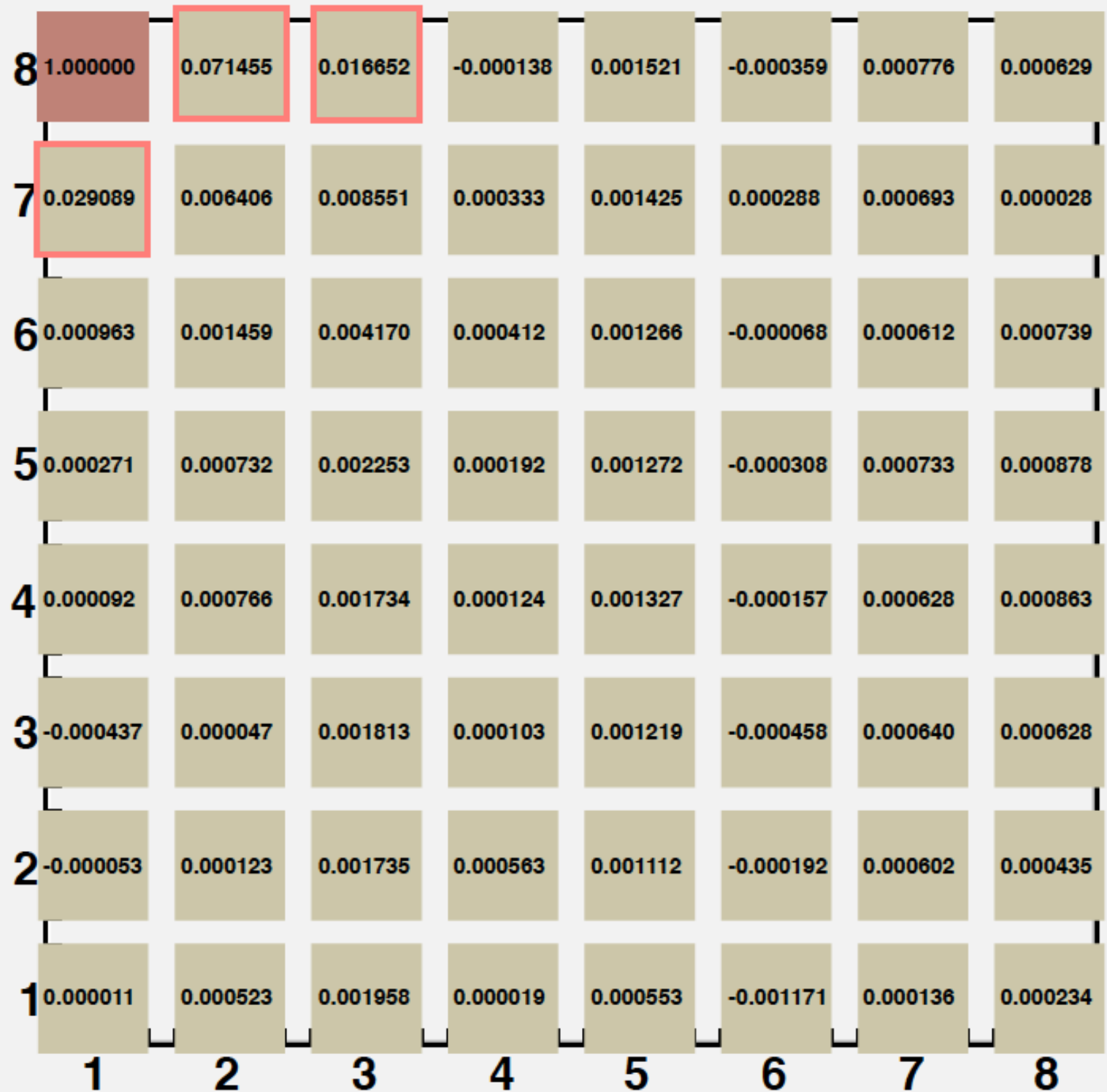


Normalized Fiber Signal

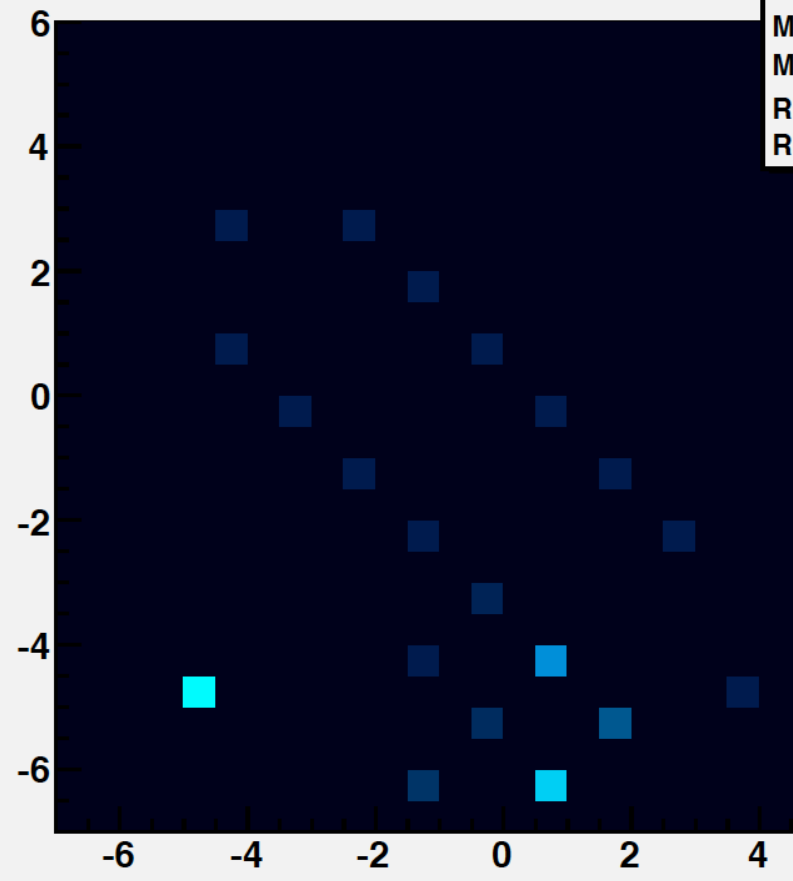


○		2	3	4	5	6	7	8
	9	10	11	12	13	14	15	16
	17	18	19	20	21	22	23	24
	25	26	27	28	29	30	31	32
	33	34	35	36	37	38	39	40
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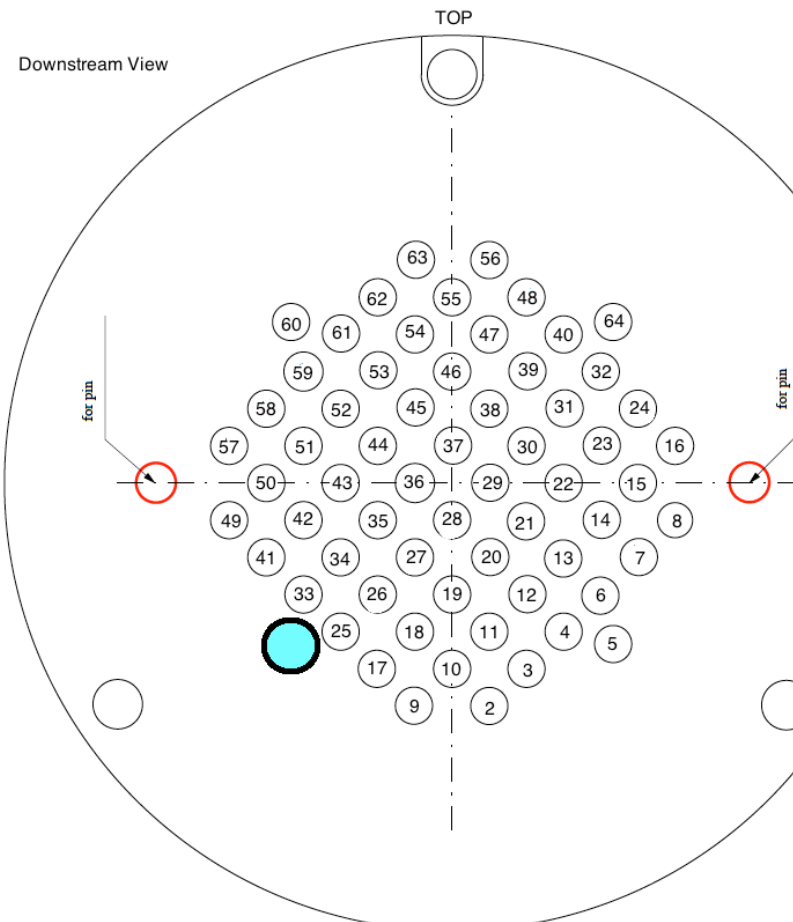
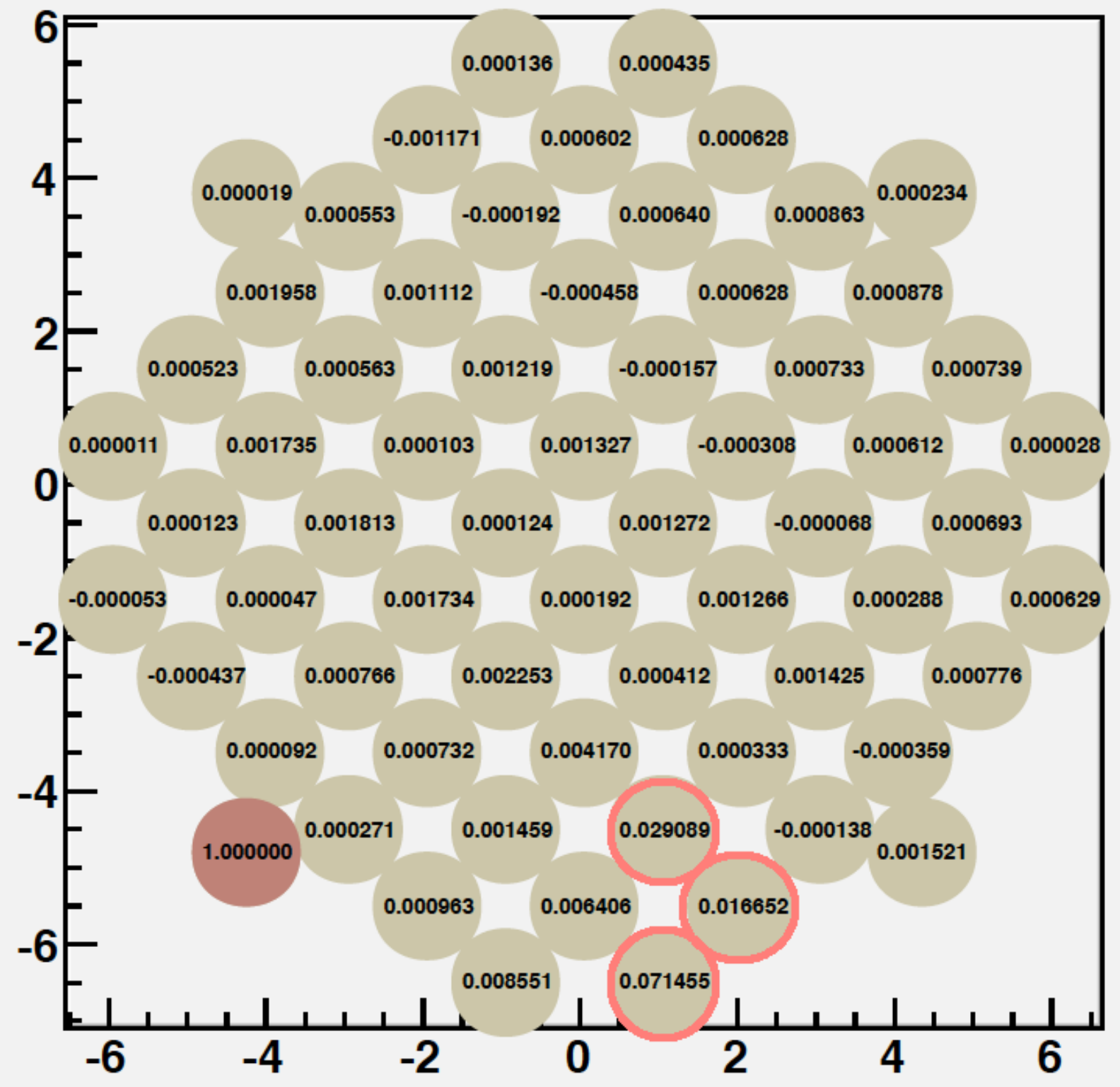
Normalized Pixel Signal



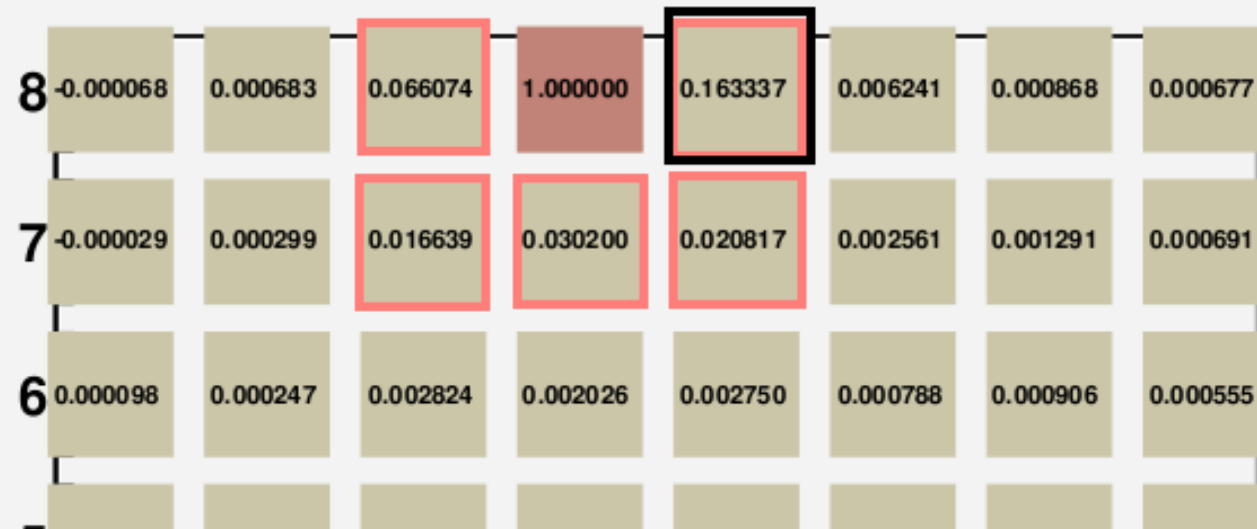
Normalized Fiber Signal



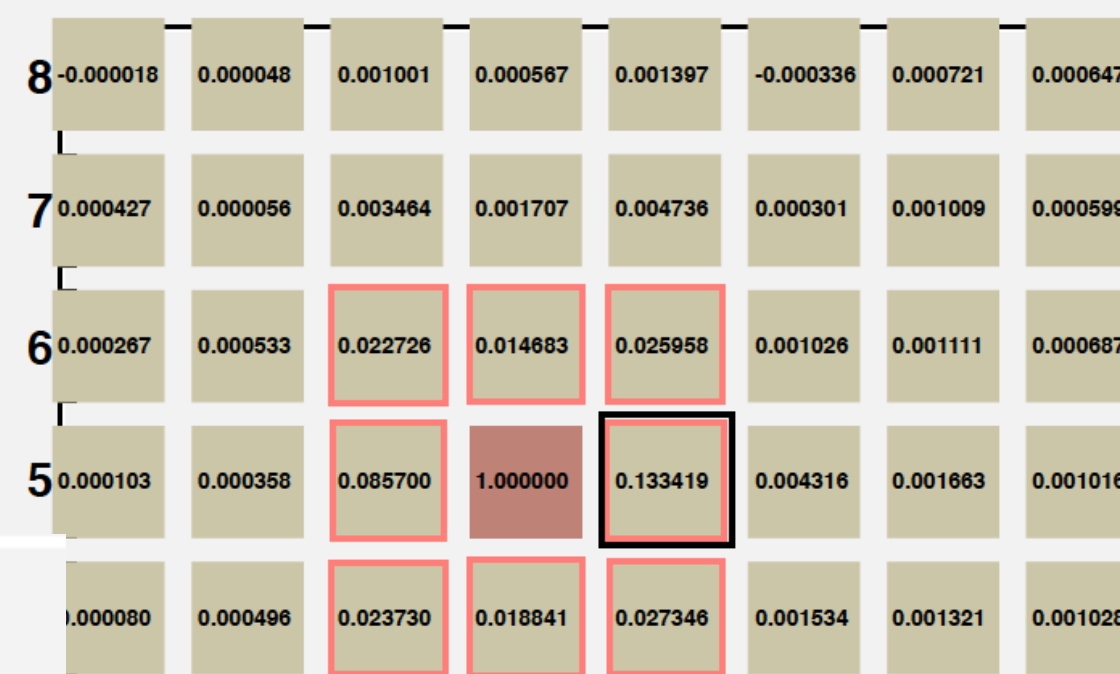
Normalized Fiber Signal



Normalized Pixel Signal



Normalized Pixel Signal

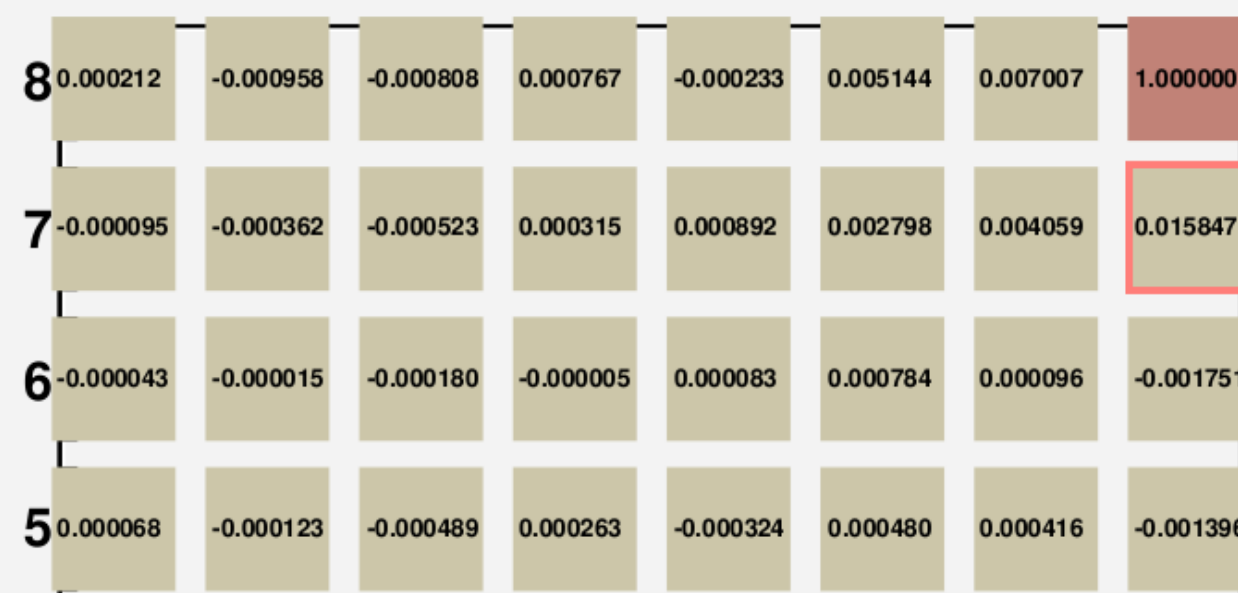


Normalized Pixel Signal

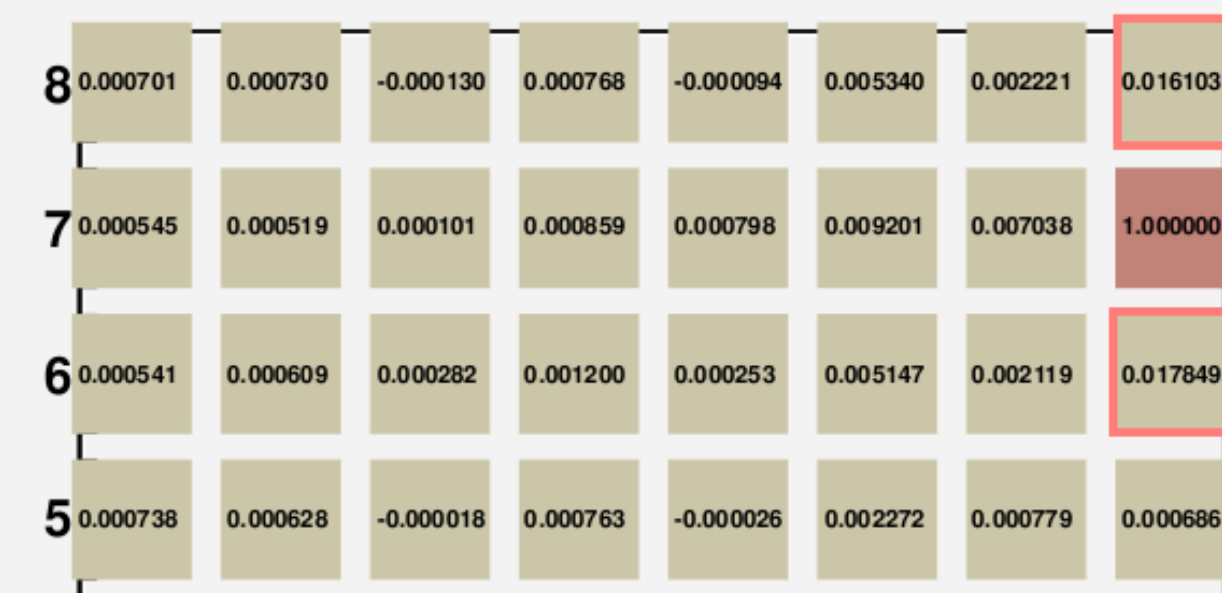


Crosstalk largest on
pixel directly to right
of pulsed pixel!!

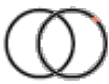

Normalized Pixel Signal



Normalized Pixel 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%