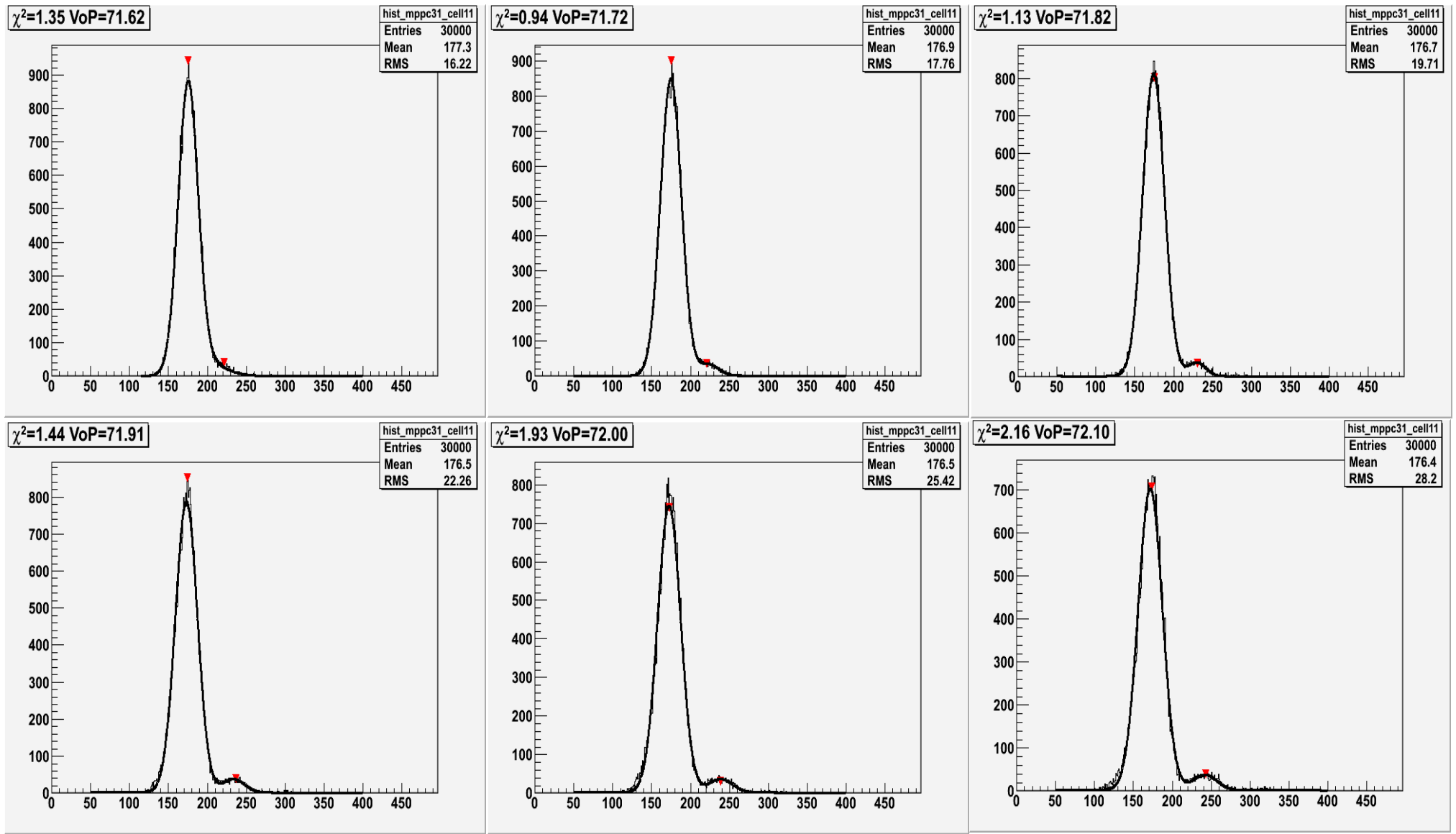


Stage 3 Data Analysis (progress)

Hayk Hakobyan

21 February 2012

Break_down_voltage + 0.9 = 71.63 MPPC_pos=31 Cell=11



31	0	72.0956	gain=76	lambda=1.58151	cross_talk=0.235248	dark_rate=0.0596681
31	0	72.0016	gain=72	lambda=1.30098	cross_talk=0.229379	dark_rate=0.0869565
31	0	71.907	gain=65	lambda=1.29607	cross_talk=0.168799	dark_rate=0.0492354
31	0	71.8158	gain=62	lambda=1.20932	cross_talk=0.161828	dark_rate=0.0420194
31	0	71.7174	gain=56	lambda=1.04076	cross_talk=0.106533	dark_rate=0.0239519
31	0	71.6248	gain=50	lambda=0.83964	cross_talk=0.143498	dark_rate=0.0656342
31	0	71.529	gain=44	lambda=0.765167	cross_talk=0.350352	dark_rate=0.0627746
31	0	71.6363	4.40514	50.7505	0.113625	0.0298341
					0.905093	

31	1	72.0956	gain=76	lambda=1.40132	cross_talk=0.226031	dark_rate=0.0614021
31	1	72.0016	gain=70	lambda=1.2657	cross_talk=0.207324	dark_rate=0.0546298
31	1	71.907	gain=65	lambda=1.28924	cross_talk=0.161437	dark_rate=0.0511839
31	1	71.8158	gain=61	lambda=1.13671	cross_talk=0.142115	dark_rate=0.0432605
31	1	71.7174	gain=55	lambda=1.03017	cross_talk=0.116468	dark_rate=0.0375597
31	1	71.6248	gain=50	lambda=0.896484	cross_talk=0.114952	dark_rate=0.0567939
31	1	71.529	gain=44	lambda=0.845577	cross_talk=0.0937371	dark_rate=0.00668607
31	1	71.6245	4.36887	49.7249	0.111166	0.0307011
					0.933504	

31	2	72.0956	gain=76	lambda=1.47982	cross_talk=0.204417	dark_rate=0.0637543
31	2	72.0016	gain=70	lambda=1.23697	cross_talk=0.177814	dark_rate=0.0584157
31	2	71.907	gain=65	lambda=1.26494	cross_talk=0.155779	dark_rate=0.0508433
31	2	71.8158	gain=60	lambda=1.1273	cross_talk=0.151458	dark_rate=0.0319917
31	2	71.7174	gain=53	lambda=0.978674	cross_talk=0.124244	dark_rate=0.0468464
31	2	71.6248	gain=49	lambda=0.838509	cross_talk=0.103496	dark_rate=0.0379007
31	2	71.529	gain=44	lambda=0.771154	cross_talk=0.0809492	dark_rate=0.0184336
31	2	71.6635	4.42812	51.0839	0.102285	0.0318772
					0.918045	

31	3	72.0956	gain=76	lambda=1.40802	cross_talk=0.236294	dark_rate=0.0681668
31	3	72.0016	gain=71	lambda=1.17659	cross_talk=0.167068	dark_rate=0.0583037
31	3	71.907	gain=64	lambda=1.21331	cross_talk=0.190134	dark_rate=0.049878
31	3	71.8158	gain=60	lambda=1.08198	cross_talk=0.137107	dark_rate=0.0399875
31	3	71.7174	gain=56	lambda=0.981628	cross_talk=0.120921	dark_rate=0.026413
31	3	71.6248	gain=49	lambda=0.851815	cross_talk=0.0861575	dark_rate=0.0115144
31	3	71.529	gain=43	lambda=0.752629	cross_talk=0.285634	dark_rate=0.0332091
31	3	71.6652	4.46208	51.4148	0.112923	0.0340834
					0.907365	

31	4	72.0956	gain=81	lambda=1.44829	cross_talk=0.24136	dark_rate=0.0674447
31	4	72.0016	gain=75	lambda=1.25748	cross_talk=0.207072	dark_rate=0.0590042
31	4	71.907	gain=70	lambda=1.37317	cross_talk=0.218963	dark_rate=0.05265
31	4	71.8158	gain=64	lambda=1.21721	cross_talk=0.171107	dark_rate=0.0400686
31	4	71.7174	gain=59	lambda=1.07217	cross_talk=0.149725	dark_rate=0.0631041
31	4	71.6248	gain=55	lambda=0.976585	cross_talk=0.136023	dark_rate=0.0560963
31	4	71.529	gain=49	lambda=0.944044	cross_talk=0.0848092	dark_rate=0.0131541
31	4	71.5493	4.33209	50.0499	0.122206	0.0337224
					0.947069	

31	5	72.0956	gain=79	lambda=1.47133	cross_talk=0.256133	dark_rate=0.0647359	
31	5	72.0016	gain=74	lambda=1.31264	cross_talk=0.233328	dark_rate=0.0554647	
31	5	71.907	gain=69	lambda=1.37549	cross_talk=0.202802	dark_rate=0.0576042	
31	5	71.8158	gain=63	lambda=1.22886	cross_talk=0.175792	dark_rate=0.0380174	
31	5	71.7174	gain=58	lambda=1.09736	cross_talk=0.166214	dark_rate=0.0623888	
31	5	71.6248	gain=53	lambda=1.00168	cross_talk=0.137815	dark_rate=0.0424449	
31	5	71.529	gain=46	lambda=0.94062	cross_talk=0.145343	dark_rate=0.0326756	
31	5	71.6151	4.49804	51.7588	0.125044	0.032368	1.01731

31	6	72.0956	gain=78	lambda=1.34302	cross_talk=0.236923	dark_rate=0.0749317	
31	6	72.0016	gain=73	lambda=1.16251	cross_talk=0.19698	dark_rate=0.0671125	
31	6	71.907	gain=68	lambda=1.2789	cross_talk=0.18589	dark_rate=0.0808376	
31	6	71.8158	gain=63	lambda=1.10652	cross_talk=0.157039	dark_rate=0.0734413	
31	6	71.7174	gain=58	lambda=1.01888	cross_talk=0.136856	dark_rate=0.0378019	
31	6	71.6248	gain=51	lambda=0.92017	cross_talk=0.110574	dark_rate=0.037183	
31	6	71.529	gain=45	lambda=0.841426	cross_talk=0.35344	dark_rate=0.0362873	
31	6	71.6371	4.51394	52.1028	0.112612	0.0374658	0.946217

31	7	72.0956	gain=77	lambda=1.27603	cross_talk=0.219694	dark_rate=0.0736334	
31	7	72.0016	gain=73	lambda=1.28124	cross_talk=0.215006	dark_rate=0.0536668	
31	7	71.907	gain=67	lambda=1.32478	cross_talk=0.169035	dark_rate=0.0569987	
31	7	71.8158	gain=61	lambda=1.13529	cross_talk=0.161723	dark_rate=0.0607547	
31	7	71.7174	gain=58	lambda=1.06354	cross_talk=0.124874	dark_rate=0.0235676	
31	7	71.6248	gain=53	lambda=0.931336	cross_talk=0.110532	dark_rate=0.0298219	
31	7	71.529	gain=48	lambda=0.849827	cross_talk=0.111021	dark_rate=0.0204429	
31	7	71.4993	4.02887	46.2927	0.110663	0.0368167	0.857303

31	8	72.0956	gain=71	lambda=1.46578	cross_talk=0.23884	dark_rate=0.0774894	
31	8	72.0016	gain=67	lambda=1.24132	cross_talk=0.209067	dark_rate=0.0695854	
31	8	71.907	gain=61	lambda=1.20925	cross_talk=0.167724	dark_rate=0.0618341	
31	8	71.8158	gain=57	lambda=1.11623	cross_talk=0.148895	dark_rate=0.0535188	
31	8	71.7174	gain=52	lambda=0.951327	cross_talk=0.137765	dark_rate=0.0421461	
31	8	71.6248	gain=47	lambda=0.810814	cross_talk=0.107583	dark_rate=0.0537038	
31	8	71.529	gain=40	lambda=0.776348	cross_talk=0.312258	dark_rate=0.00630619	
31	8	71.6629	4.35399	48.3619	0.116687	0.0387447	0.900533

31	9	72.0956	gain=70	lambda=1.32492	cross_talk=0.223645	dark_rate=0.0596962	
31	9	72.0016	gain=66	lambda=1.18903	cross_talk=0.199552	dark_rate=0.0531119	
31	9	71.907	gain=63	lambda=1.21547	cross_talk=0.143218	dark_rate=0.0459522	
31	9	71.8158	gain=56	lambda=1.07438	cross_talk=0.152398	dark_rate=0.0405015	
31	9	71.7174	gain=52	lambda=0.965266	cross_talk=0.129607	dark_rate=0.0309898	
31	9	71.6248	gain=47	lambda=0.864579	cross_talk=0.0876799	dark_rate=0.0171129	
31	9	71.529	gain=41	lambda=0.778776	cross_talk=0.285758	dark_rate=0.00518508	
31	9	71.6163	4.1935	46.3057	0.106303	0.0298481	0.870001

31	10	72.0956	gain=73	lambda=1.45136	cross_talk=0.202674	dark_rate=0.0602393
31	10	72.0016	gain=68	lambda=1.21574	cross_talk=0.19036	dark_rate=0.0462166
31	10	71.907	gain=63	lambda=1.24555	cross_talk=0.166066	dark_rate=0.044741
31	10	71.8158	gain=58	lambda=1.0991	cross_talk=0.152004	dark_rate=0.0410793
31	10	71.7174	gain=52	lambda=1.00471	cross_talk=0.130991	dark_rate=0.0200092
31	10	71.6248	gain=49	lambda=0.830367	cross_talk=0.0936115	dark_rate=0.0441501
31	10	71.529	gain=43	lambda=0.724564	cross_talk=0.284771	dark_rate=0.062831
31	10	71.6103	4.27178	47.337	0.10532	0.0301196 0.83681

31	11	72.0956	gain=74	lambda=1.40896	cross_talk=0.212997	dark_rate=0.0656815
31	11	72.0016	gain=69	lambda=1.15481	cross_talk=0.162903	dark_rate=0.0590416
31	11	71.907	gain=64	lambda=1.21105	cross_talk=0.184378	dark_rate=0.0505213
31	11	71.8158	gain=58	lambda=1.06949	cross_talk=0.150076	dark_rate=0.0445955
31	11	71.7174	gain=54	lambda=0.975272	cross_talk=0.127839	dark_rate=0.0361978
31	11	71.6248	gain=49	lambda=0.820631	cross_talk=0.0873444	dark_rate=0.0338322
31	11	71.529	gain=43	lambda=0.783556	cross_talk=0.0772394	dark_rate=0.0133937
31	11	71.6276	4.3979	48.6856	0.108303	0.0328408 0.86557

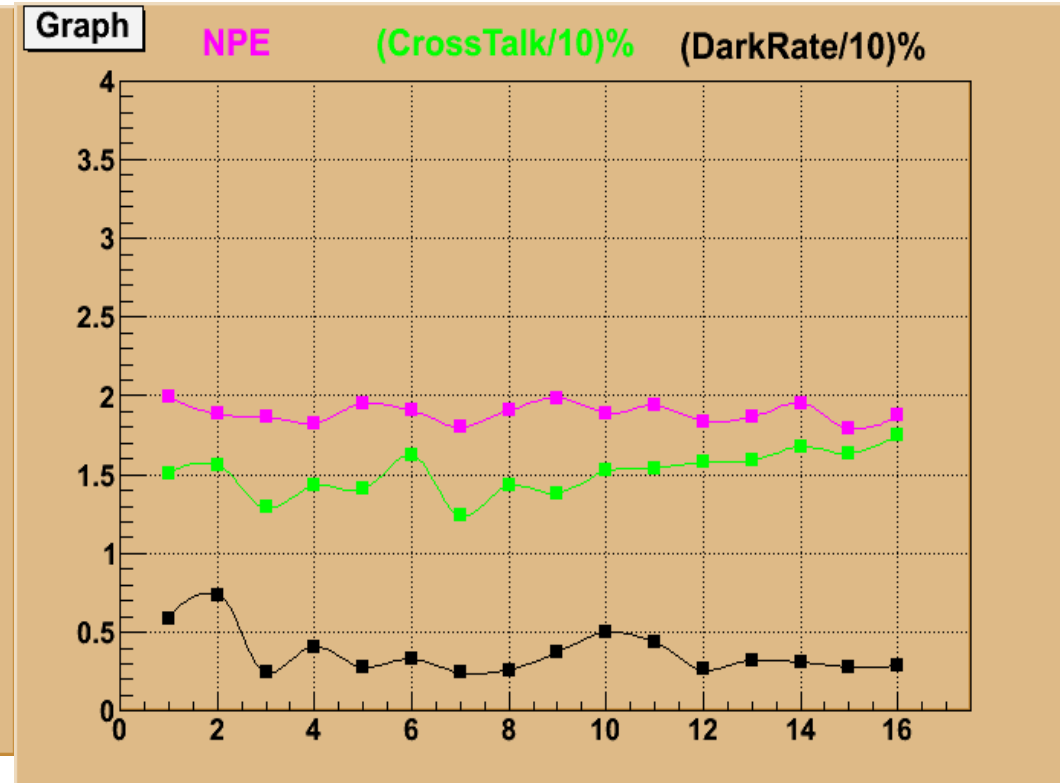
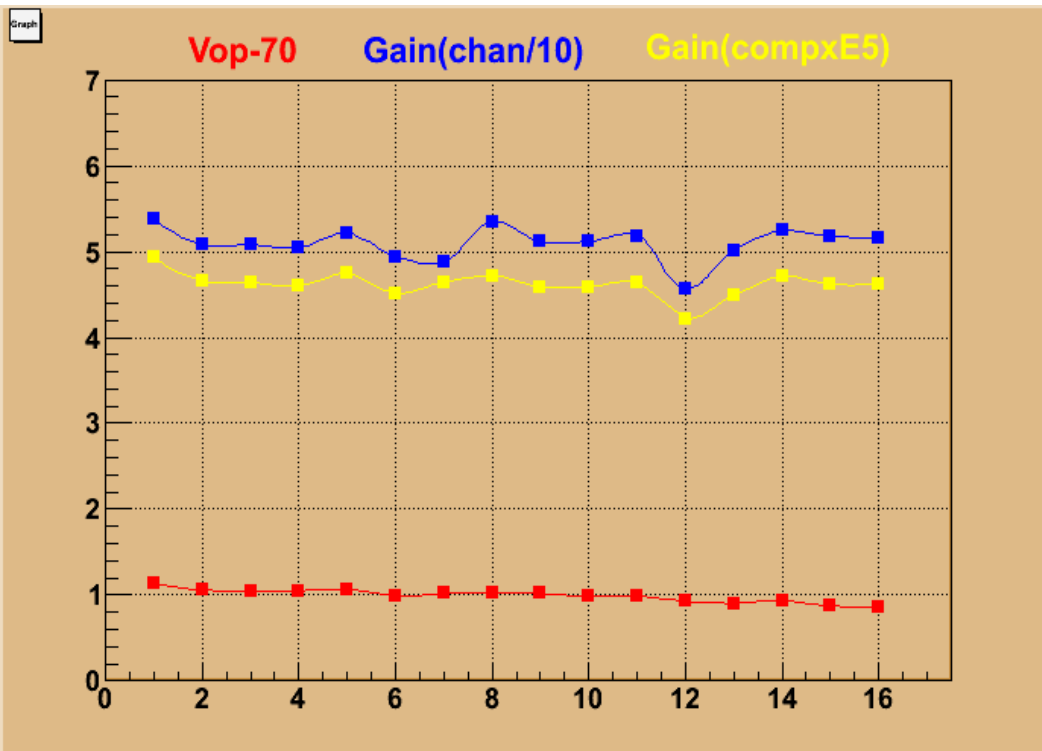
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31	12	71.907	gain=63	lambda=1.25527	cross_talk=0.151383	dark_rate=0.0484287
31	12	71.8158	gain=59	lambda=1.10236	cross_talk=0.140488	dark_rate=0.0403121
31	12	71.7174	gain=53	lambda=0.986884	cross_talk=0.116191	dark_rate=0.0206599
31	12	71.6248	gain=49	lambda=0.911248	cross_talk=0.0805183	dark_rate=0.0110797
31	12	71.529	gain=42	lambda=0.779269	cross_talk=0.114938	dark_rate=0.0399154
31	12	71.6235	4.31287	48.0266	0.106576	0.0293386 0.90046

31	13	72.0956	gain=70	lambda=1.3936	cross_talk=0.229522	dark_rate=0.0628687
31	13	72.0016	gain=66	lambda=1.23265	cross_talk=0.223024	dark_rate=0.0588453
31	13	71.907	gain=60	lambda=1.30021	cross_talk=0.180949	dark_rate=0.0492262
31	13	71.8158	gain=57	lambda=1.14741	cross_talk=0.149034	dark_rate=0.0432696
31	13	71.7174	gain=51	lambda=1.01821	cross_talk=0.129452	dark_rate=0.0363858
31	13	71.6248	gain=47	lambda=0.898676	cross_talk=0.109583	dark_rate=0.0377032
31	13	71.529	gain=42	lambda=0.822922	cross_talk=0.345495	dark_rate=0.0320716
31	13	71.5806	4.16667	44.6191	0.112385	0.0314343 0.882077

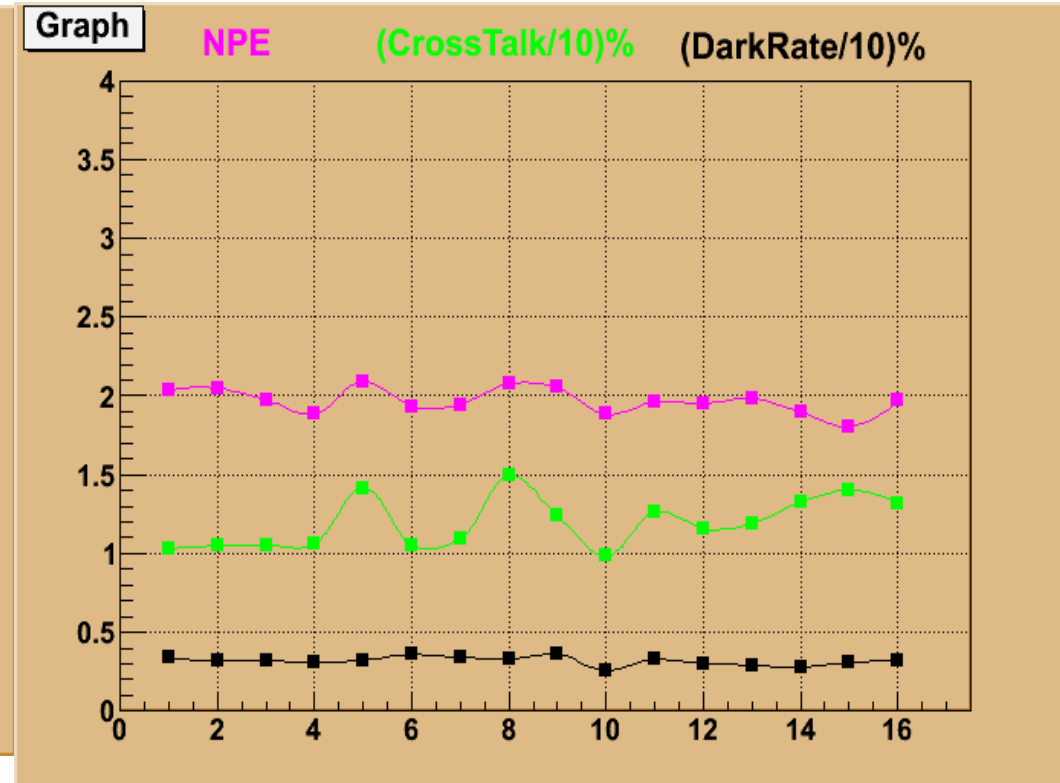
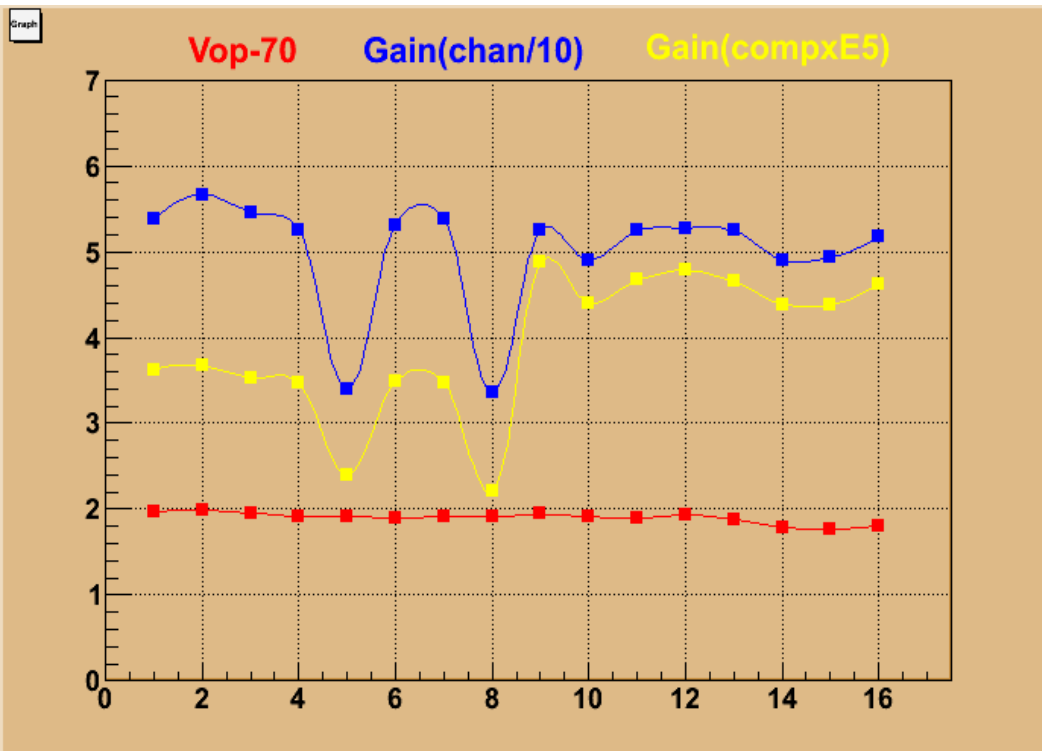
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31	14	71.907	gain=63	lambda=1.26396	cross_talk=0.180242	dark_rate=0.0487494
31	14	71.8158	gain=59	lambda=1.10474	cross_talk=0.135098	dark_rate=0.0425536
31	14	71.7174	gain=52	lambda=0.994402	cross_talk=0.126868	dark_rate=0.0301756
31	14	71.6248	gain=48	lambda=0.901818	cross_talk=0.109604	dark_rate=0.018866
31	14	71.529	gain=44	lambda=0.806197	cross_talk=0.110987	dark_rate=0.0432061
31	14	71.5997	4.24852	47.0014	0.115537	0.0308231 0.891653

31	15	72.0956	gain=75	lambda=1.30184	cross_talk=0.22716	dark_rate=0.0599958	
31	15	72.0016	gain=69	lambda=1.25041	cross_talk=0.216054	dark_rate=0.0809447	
31	15	71.907	gain=65	lambda=1.32864	cross_talk=0.177339	dark_rate=0.0489602	
31	15	71.8158	gain=60	lambda=1.15838	cross_talk=0.160733	dark_rate=0.0410341	
31	15	71.7174	gain=55	lambda=1.03002	cross_talk=0.140839	dark_rate=0.0357328	
31	15	71.6248	gain=51	lambda=0.934096	cross_talk=0.109312	dark_rate=0.015701	
31	15	71.529	gain=46	lambda=0.826944	cross_talk=0.098928	dark_rate=0.0357596	
31	15	71.5178	4.07286	45.2872	0.113568	0.0299979	0.855305

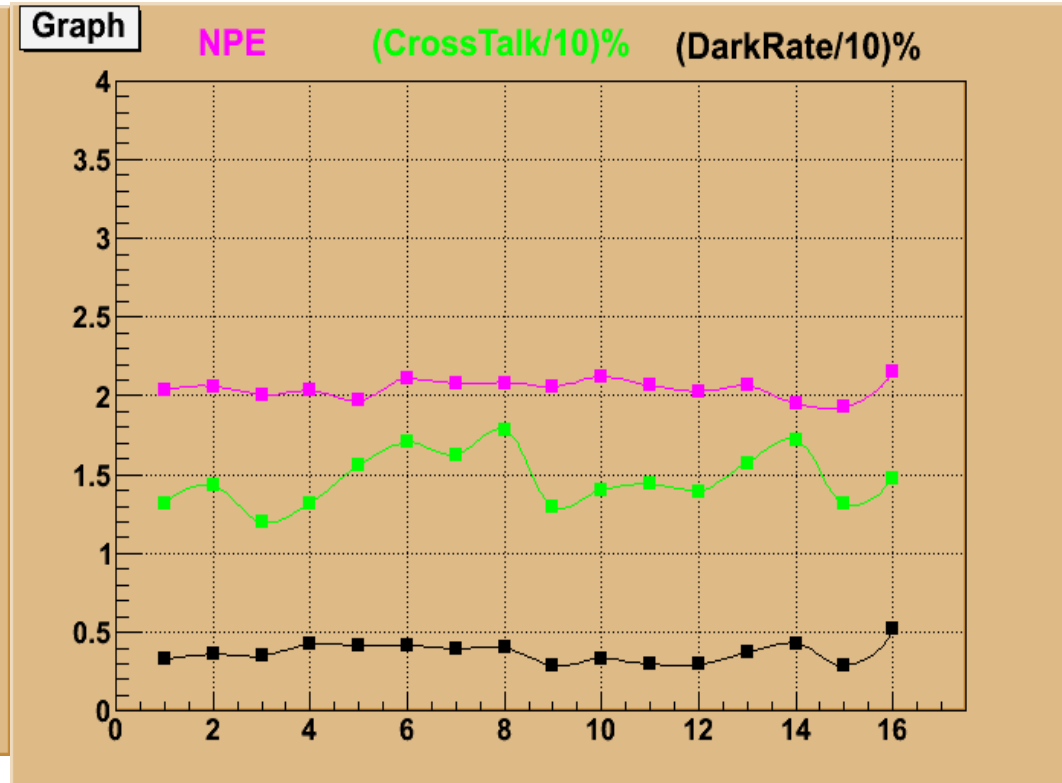
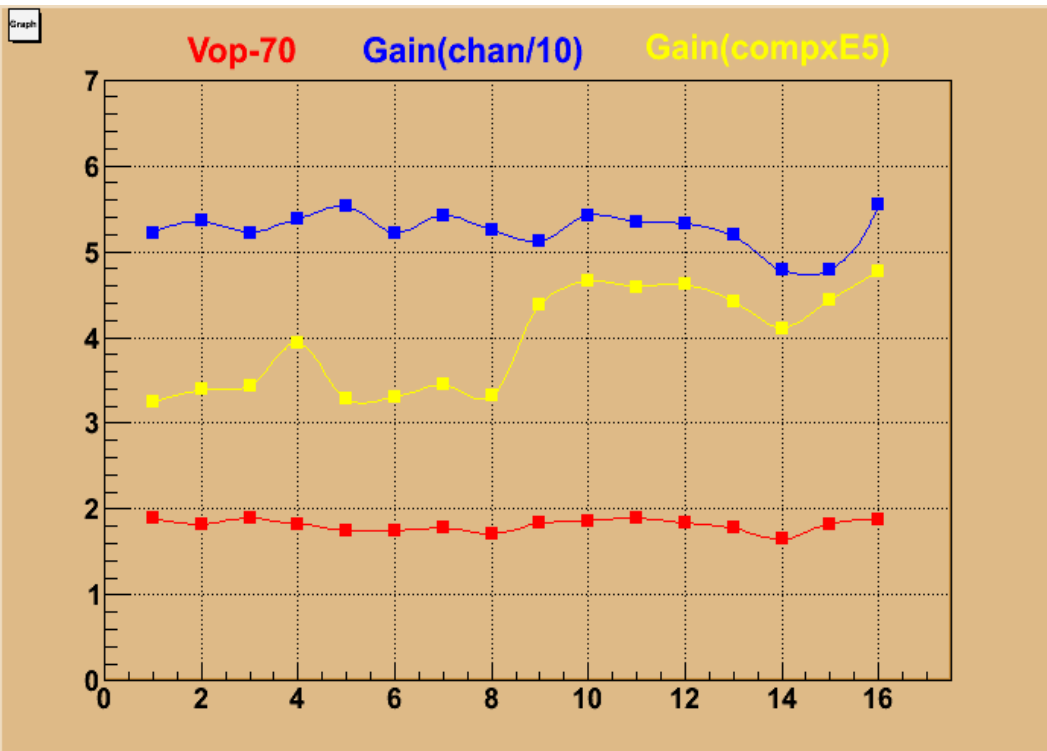
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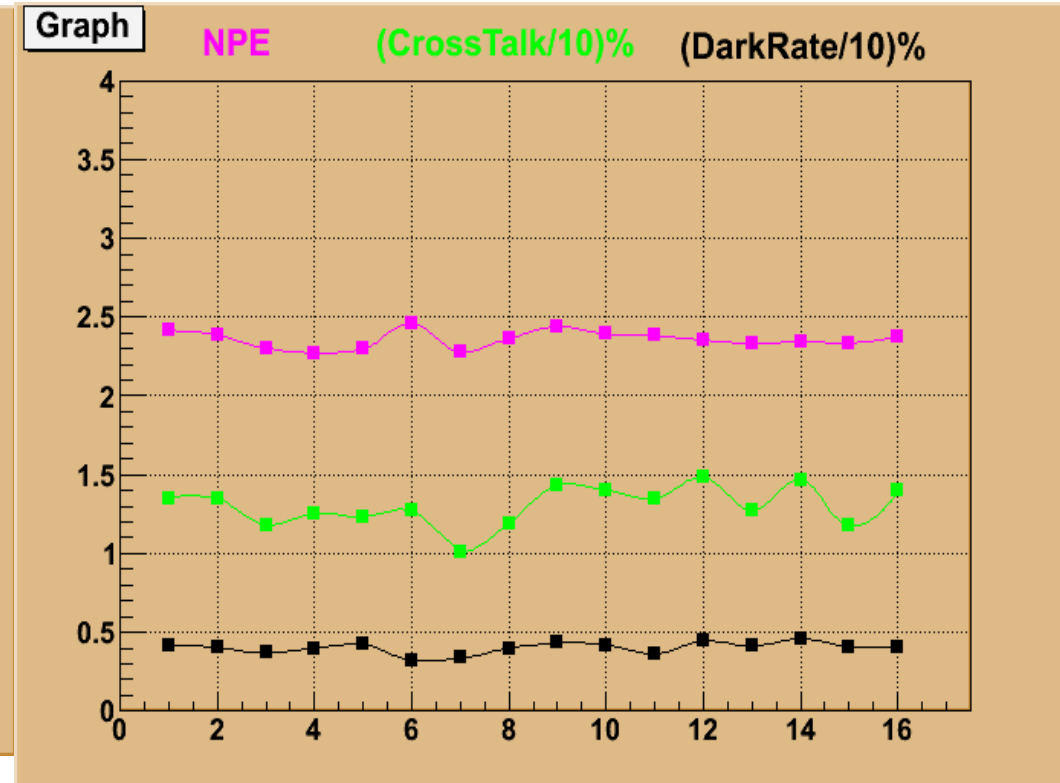
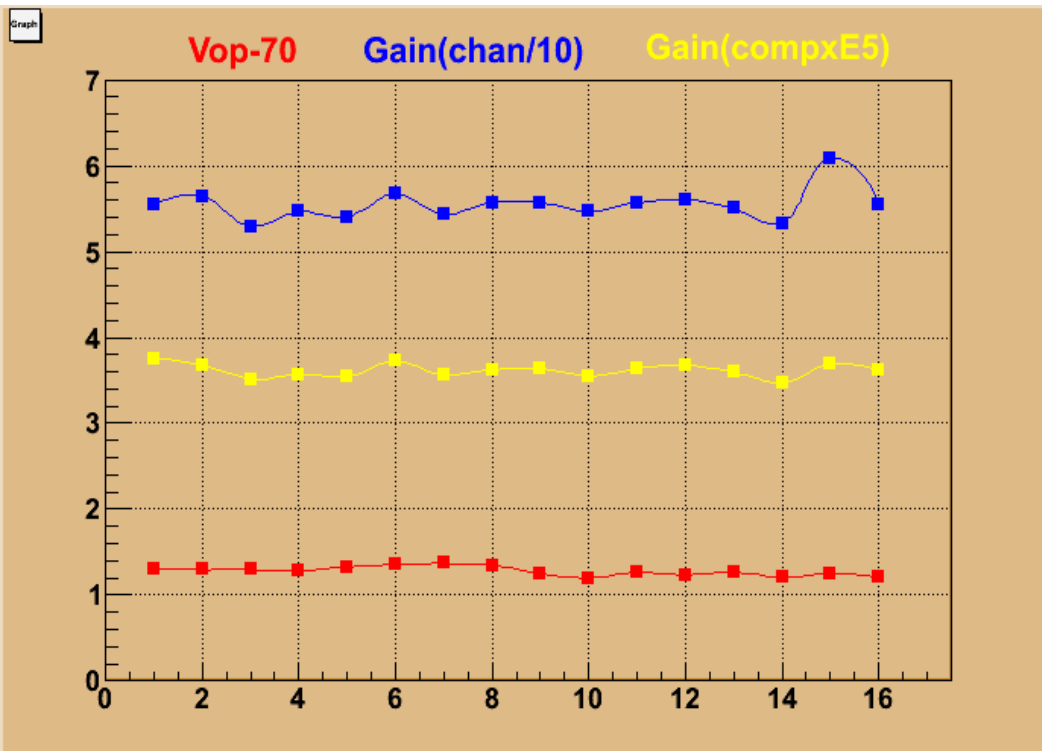
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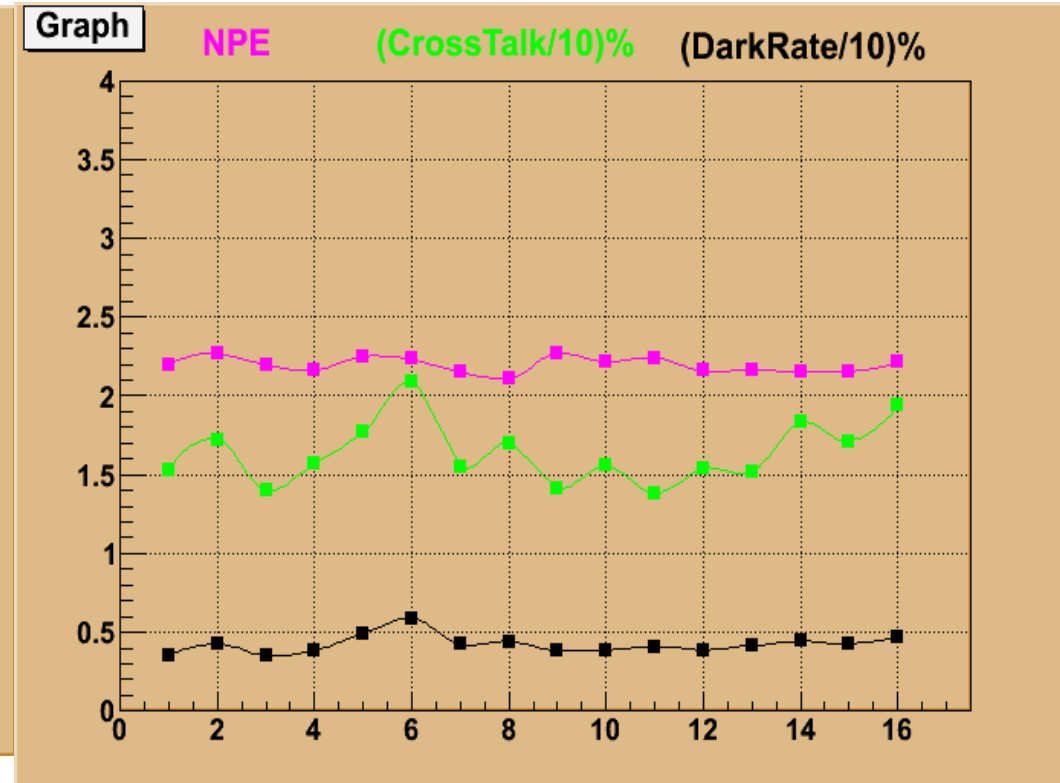
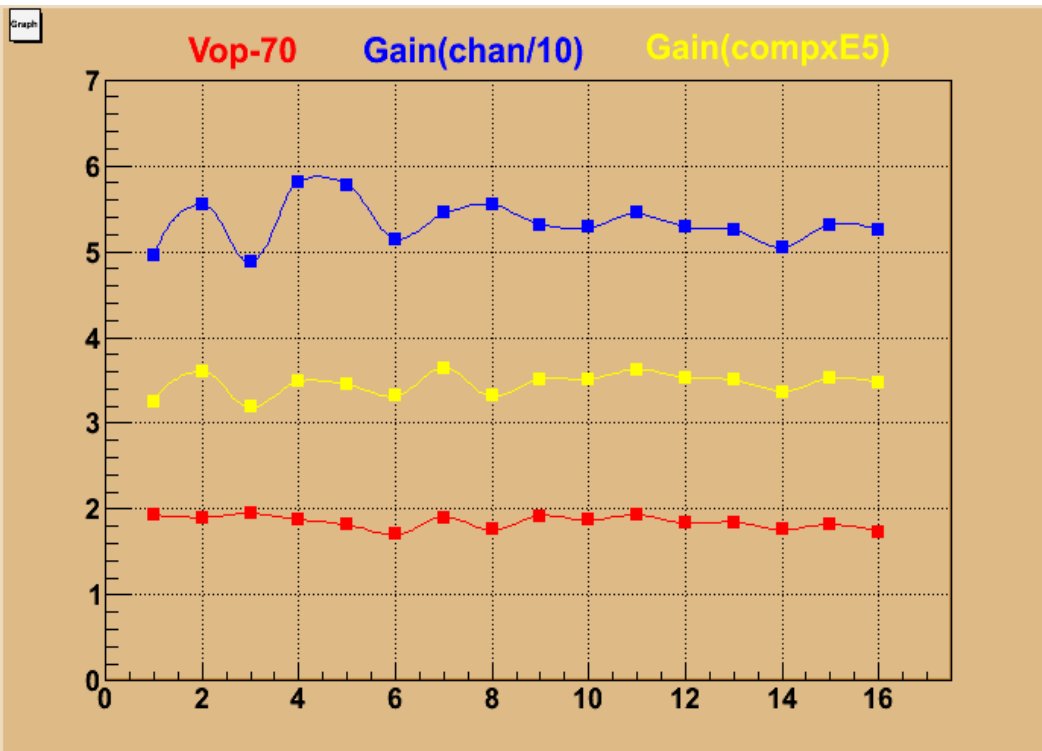
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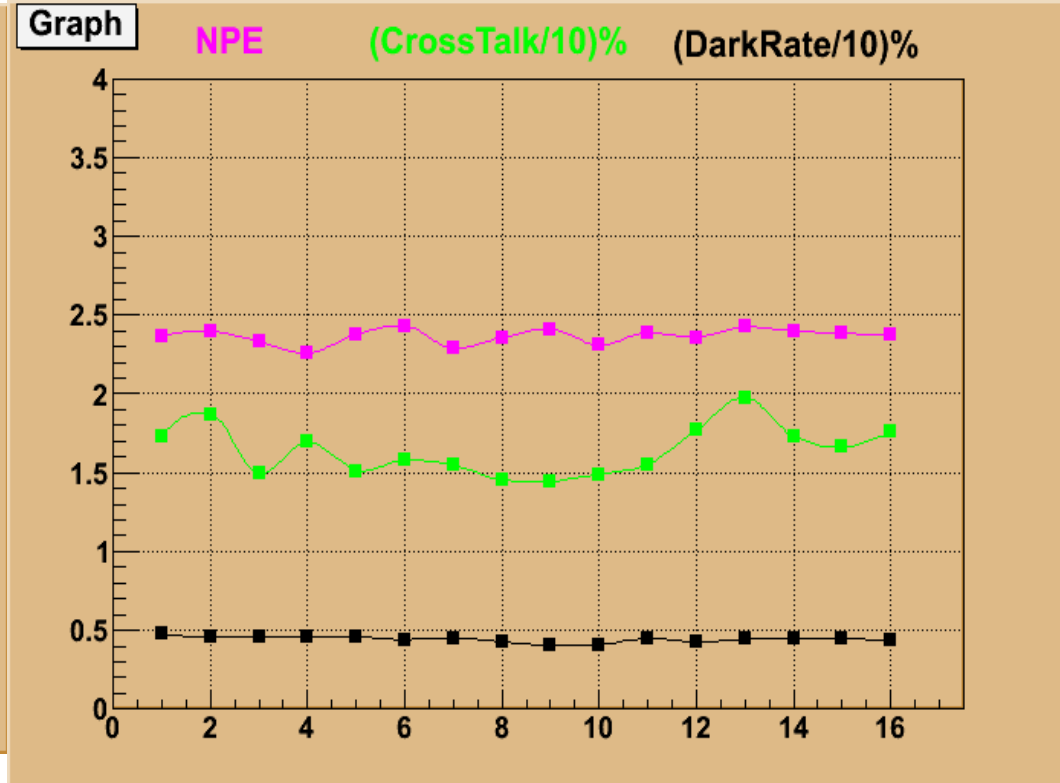
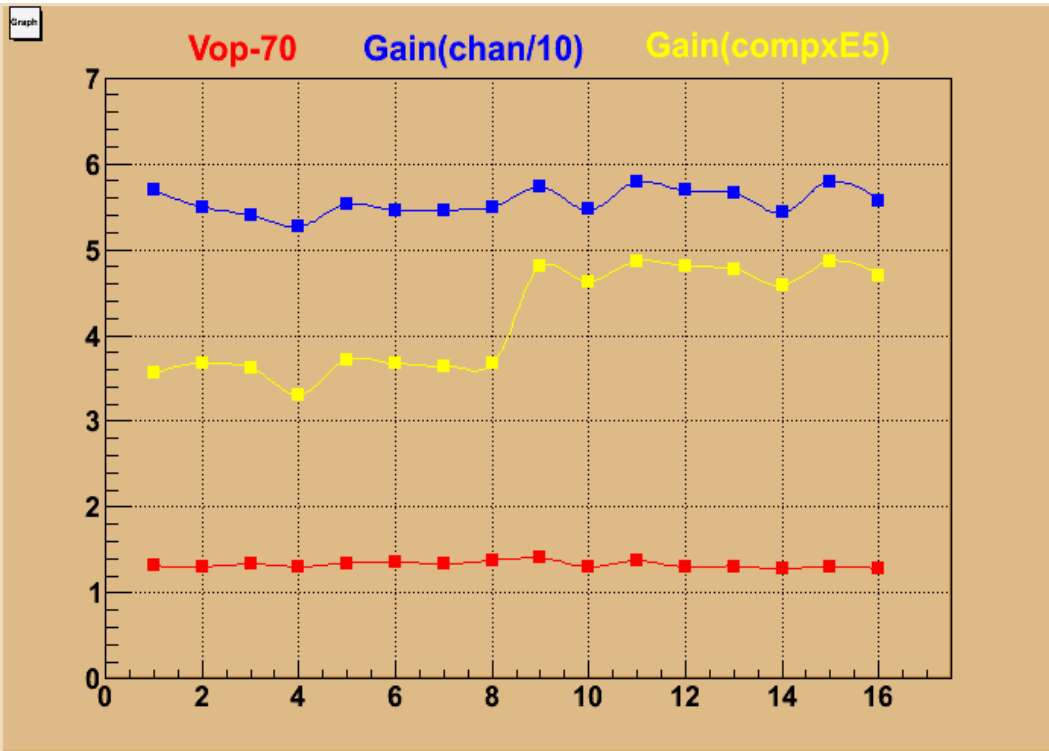
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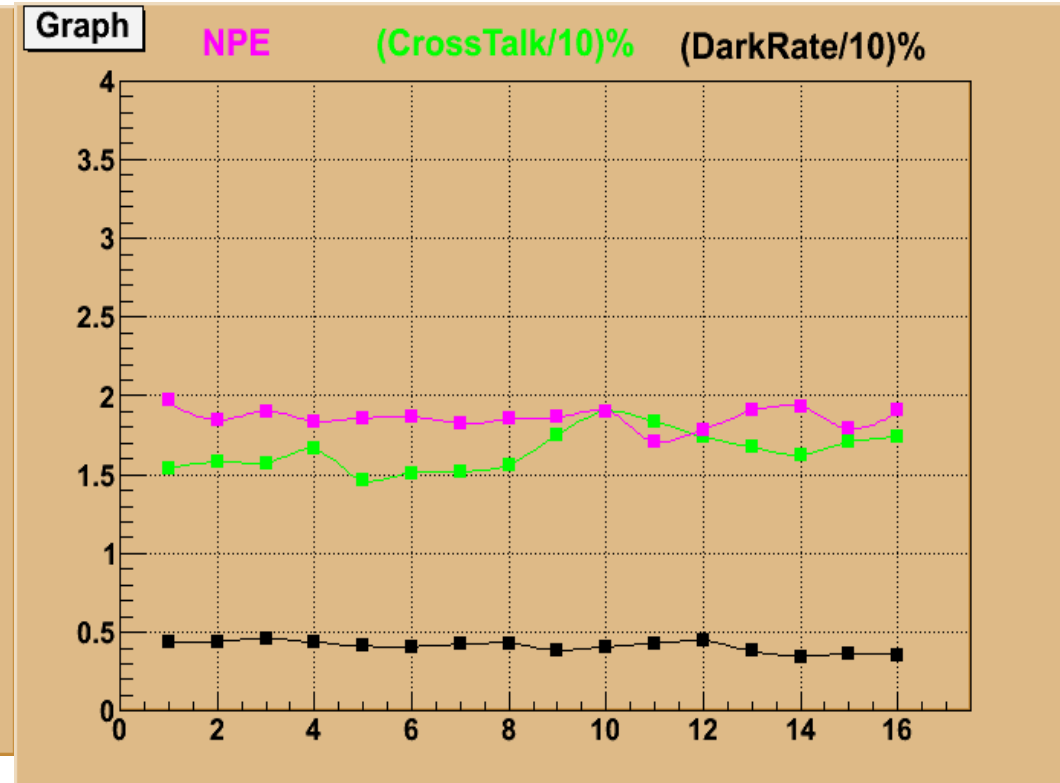
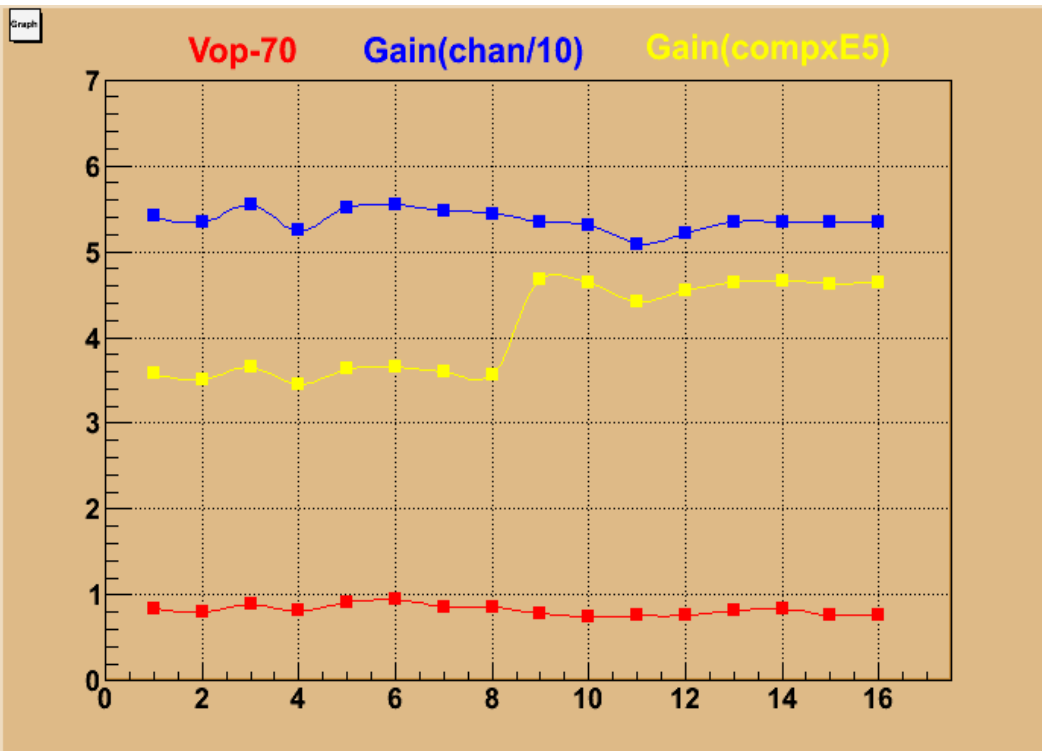
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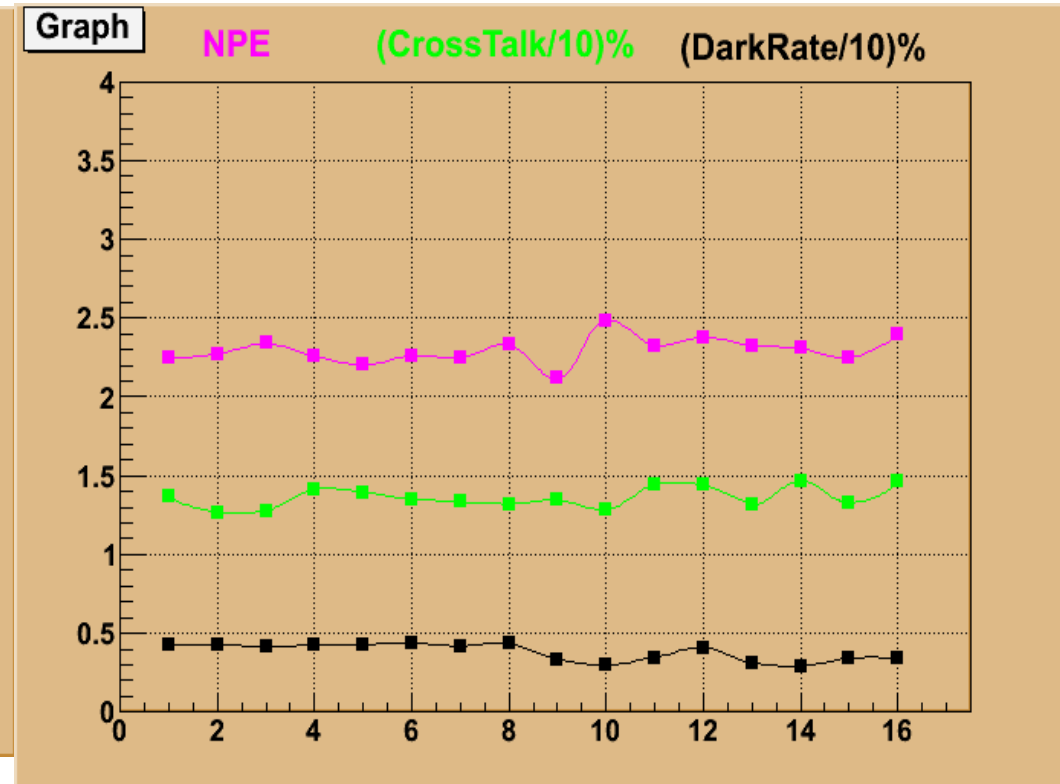
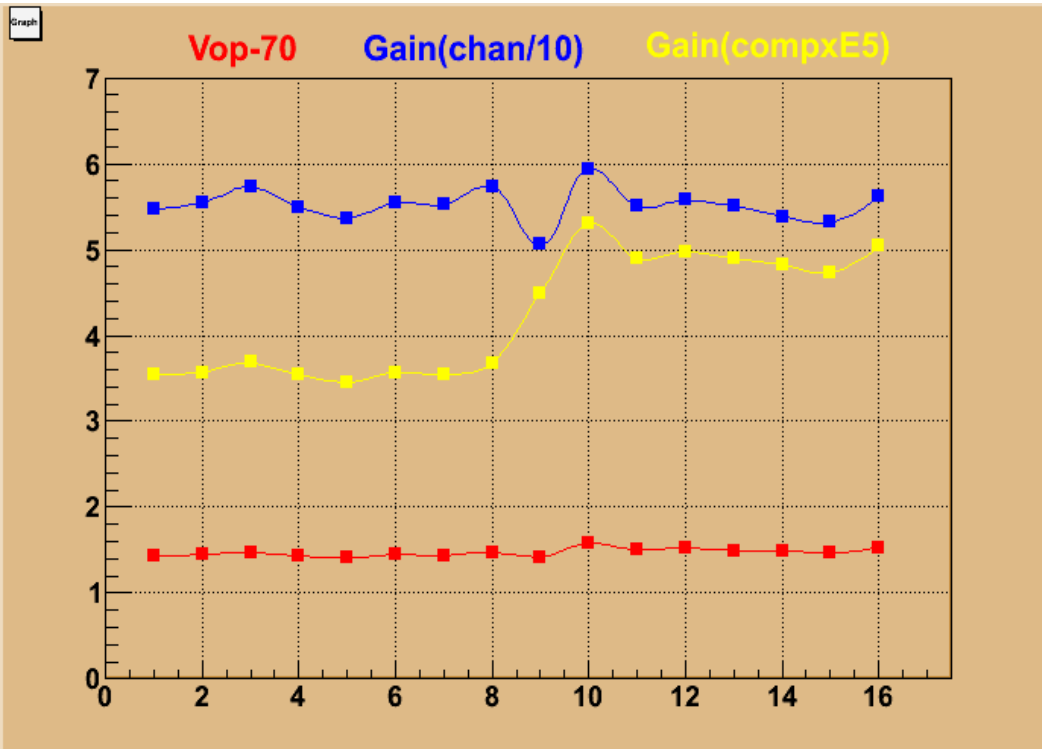
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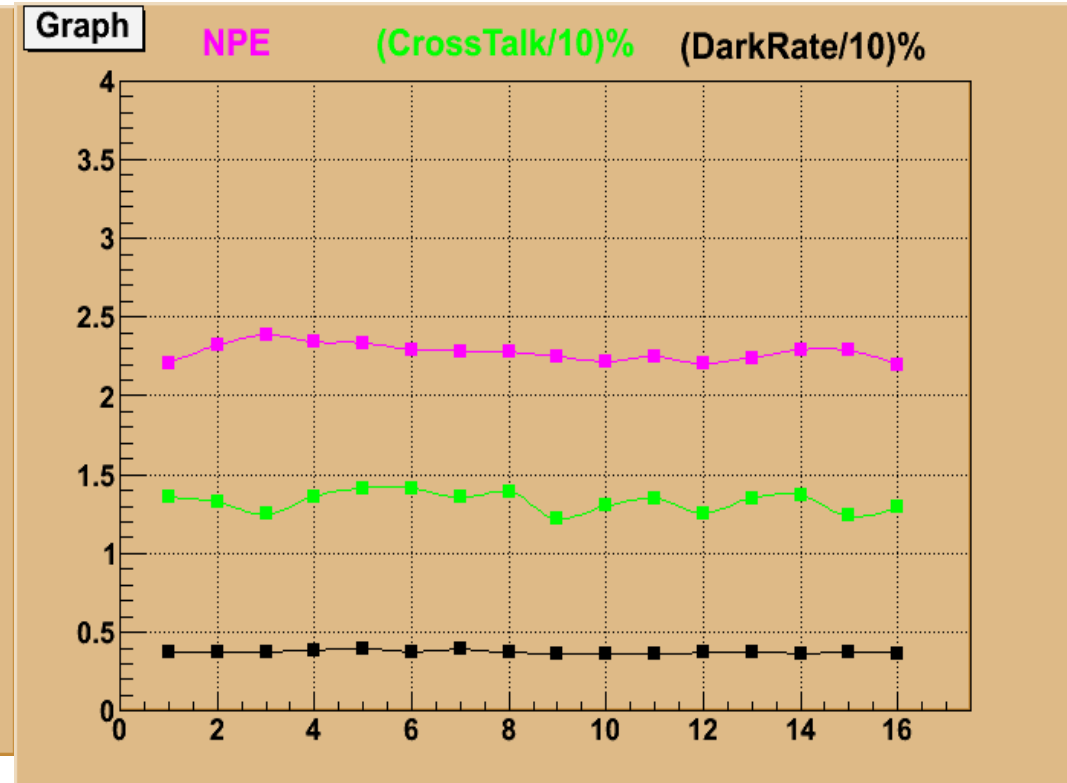
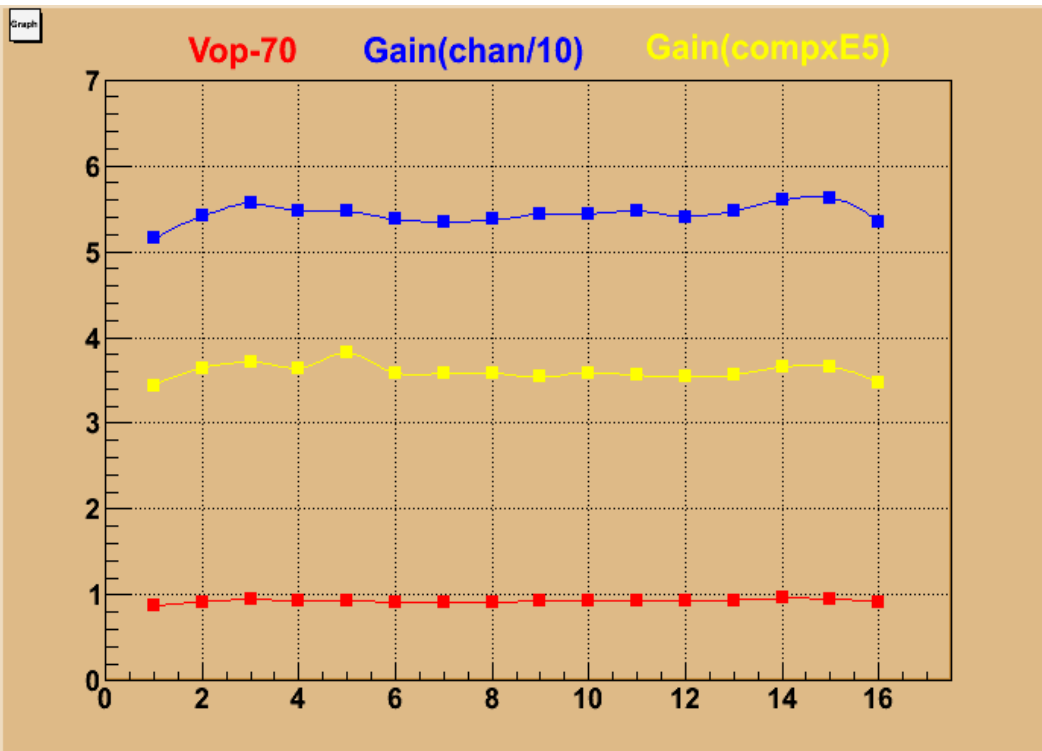
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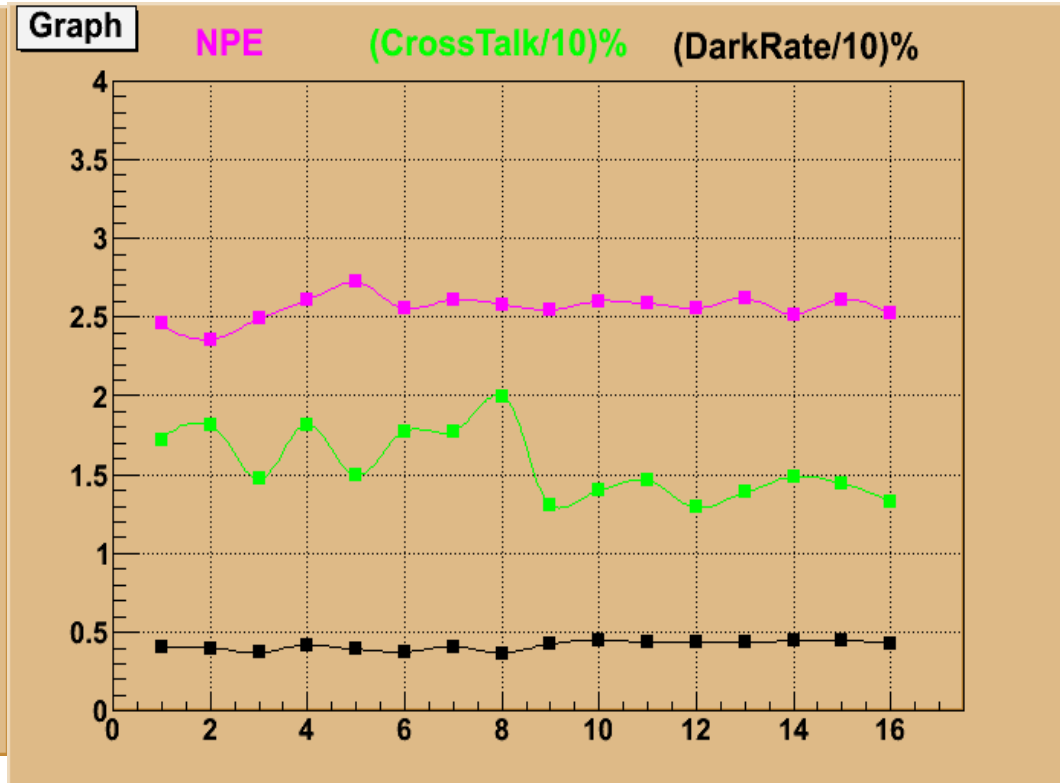
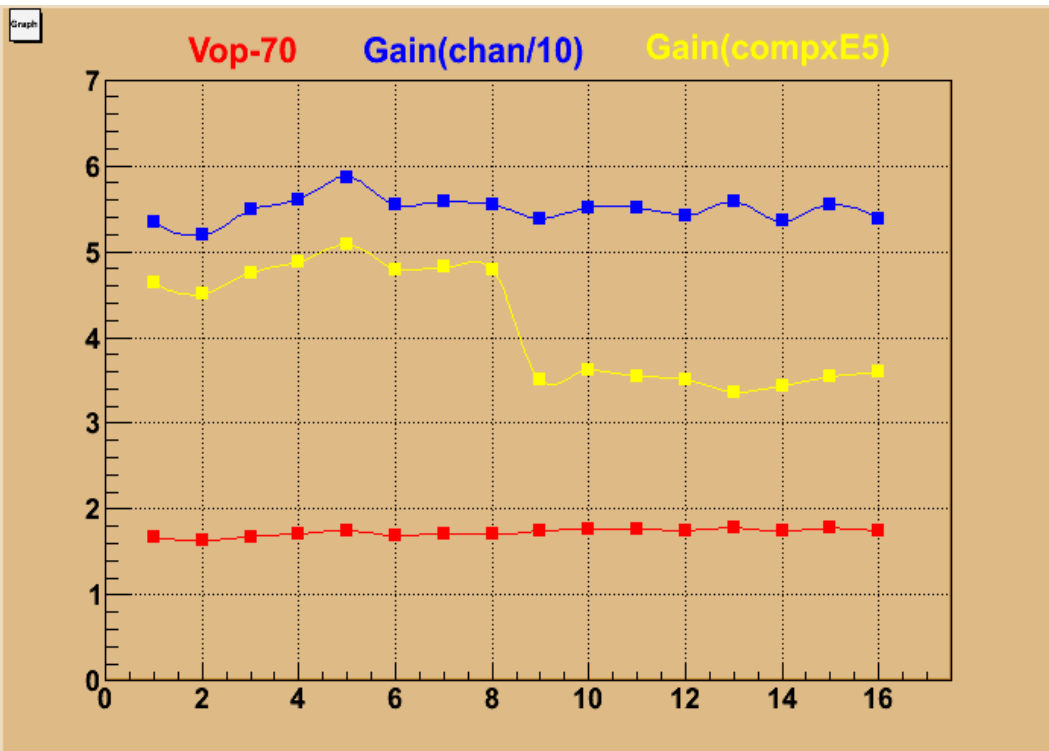
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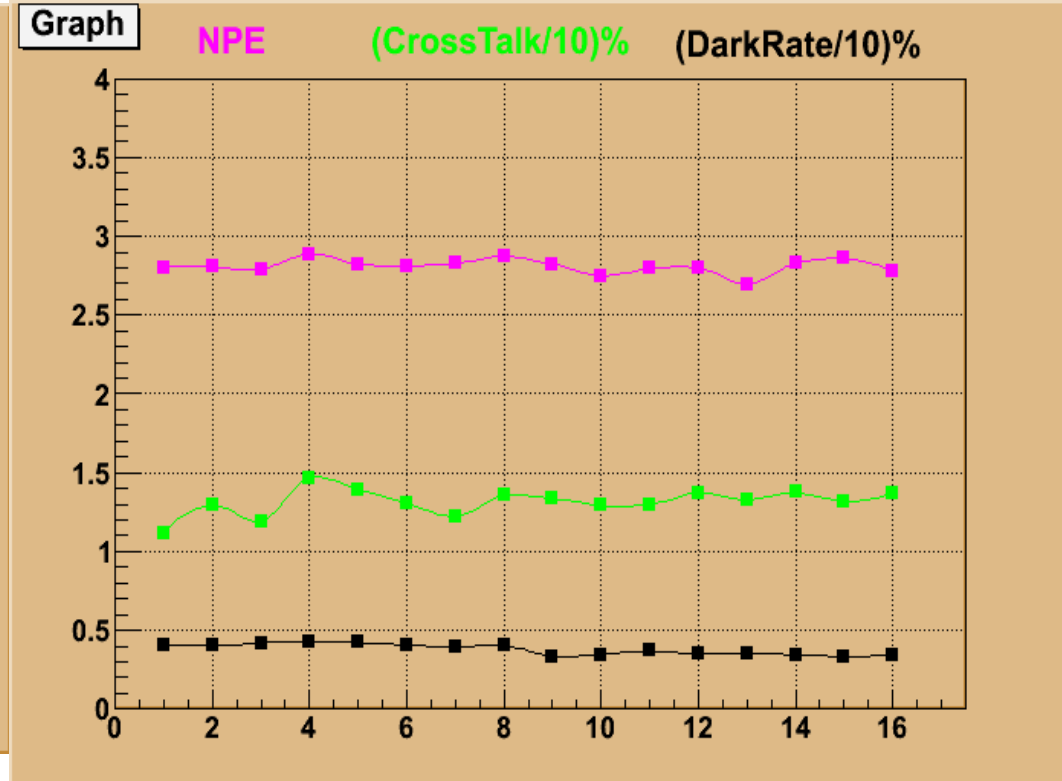
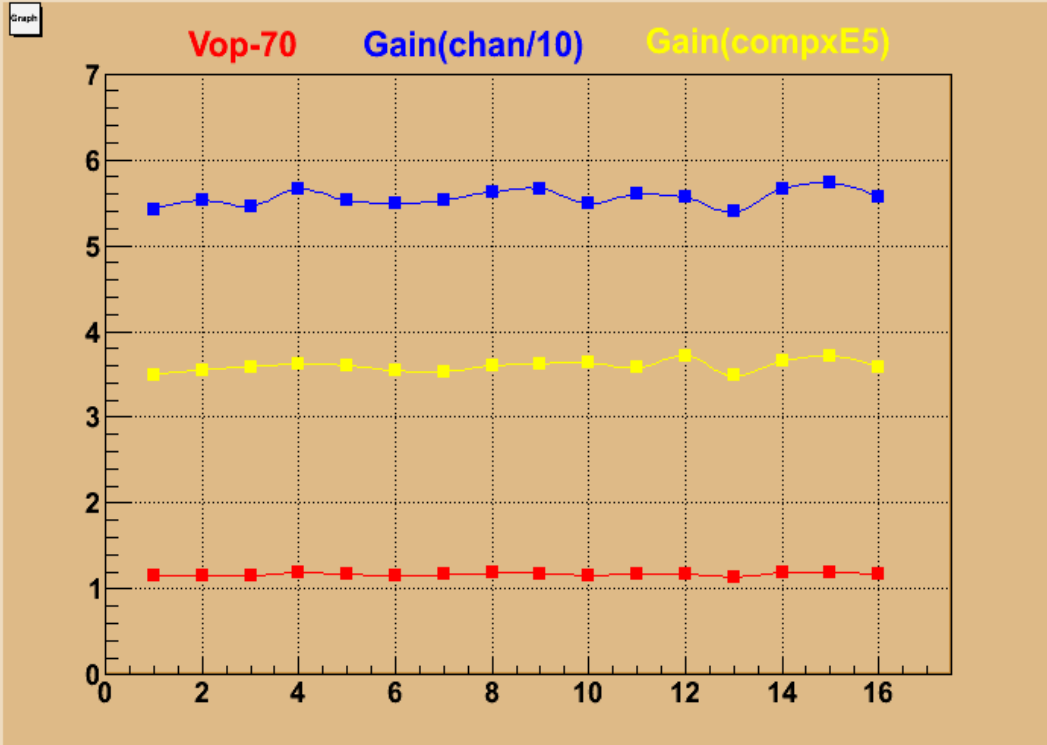
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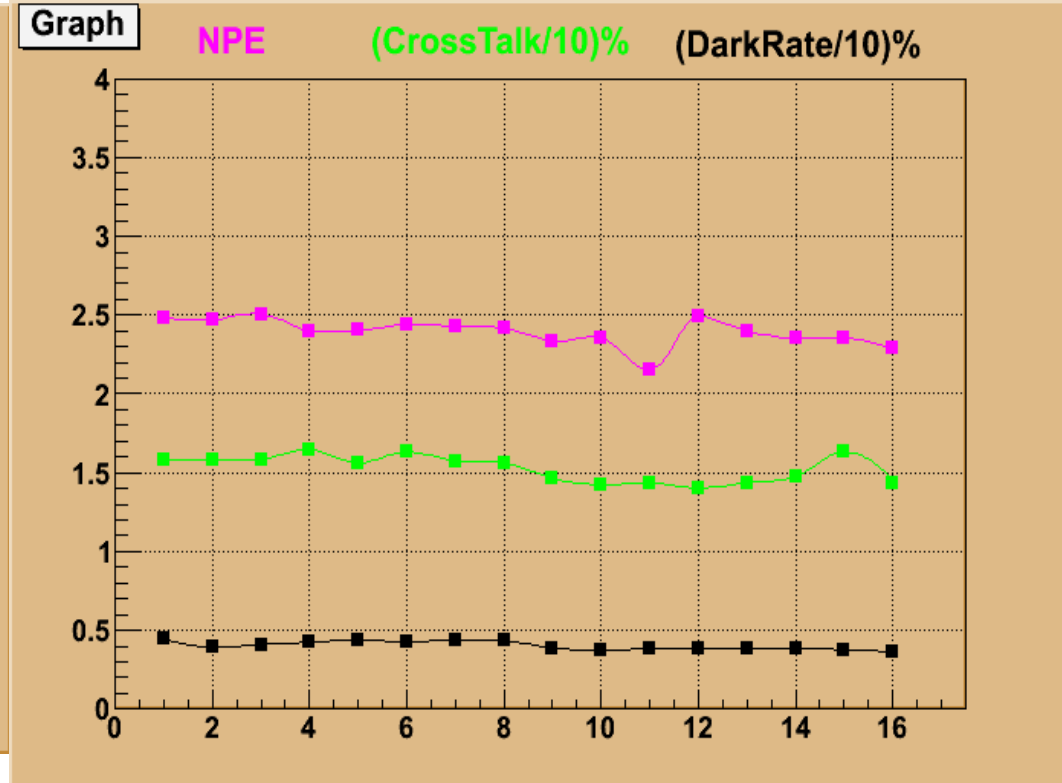
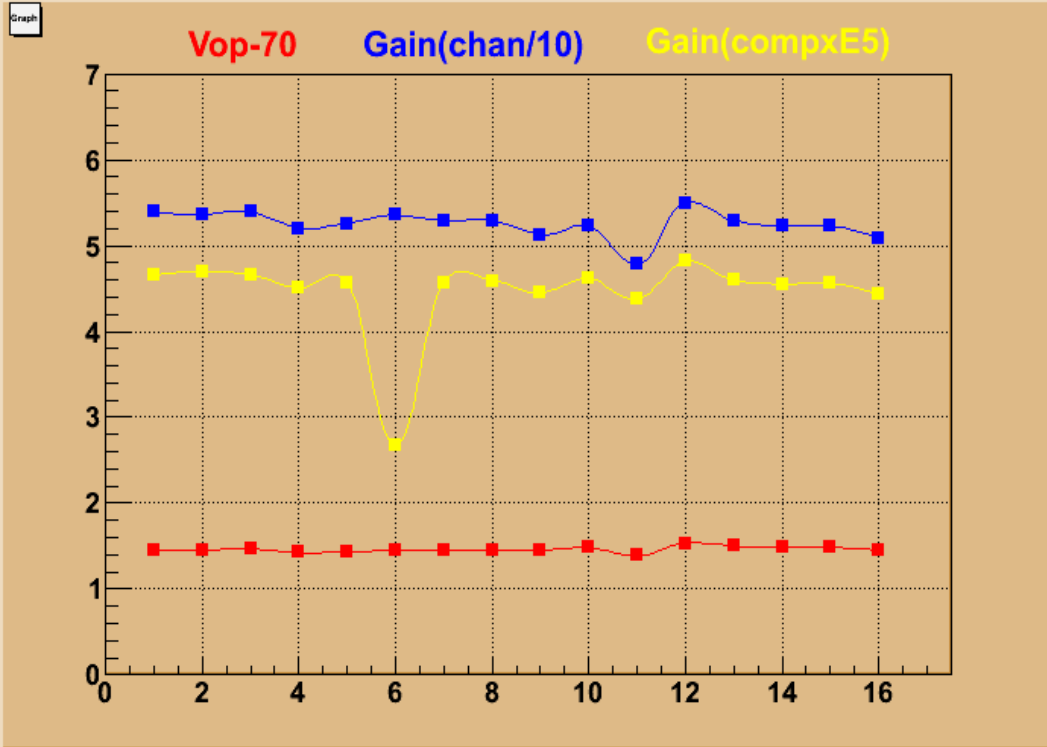
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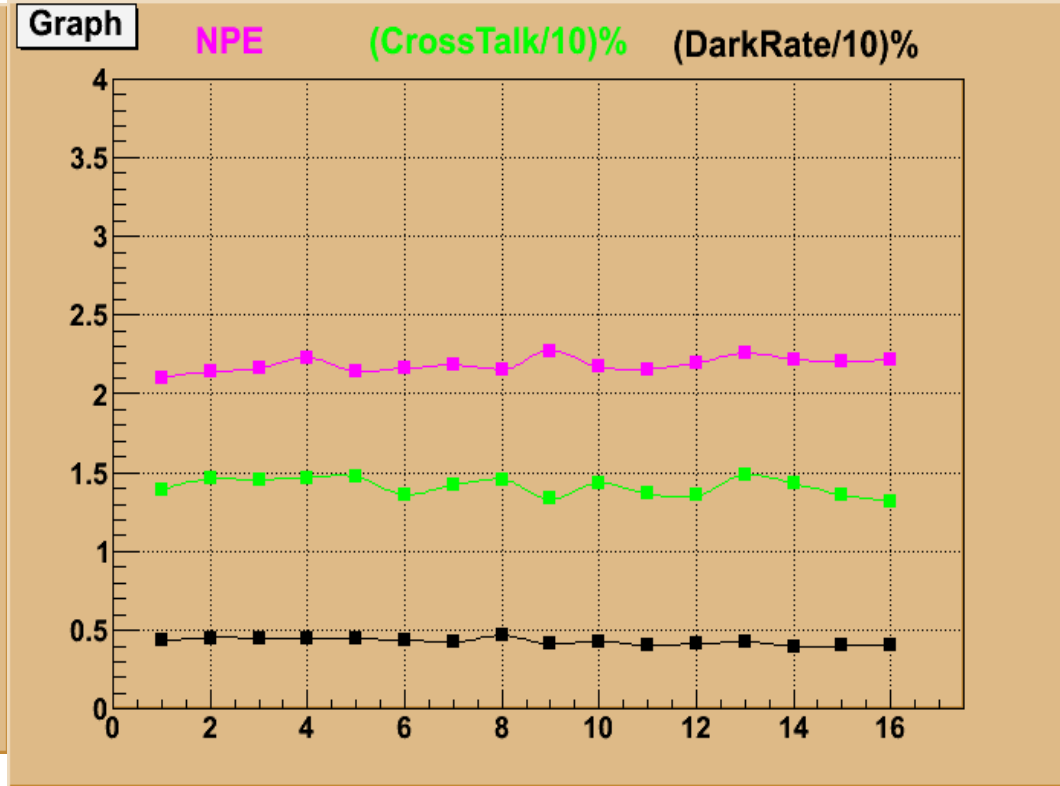
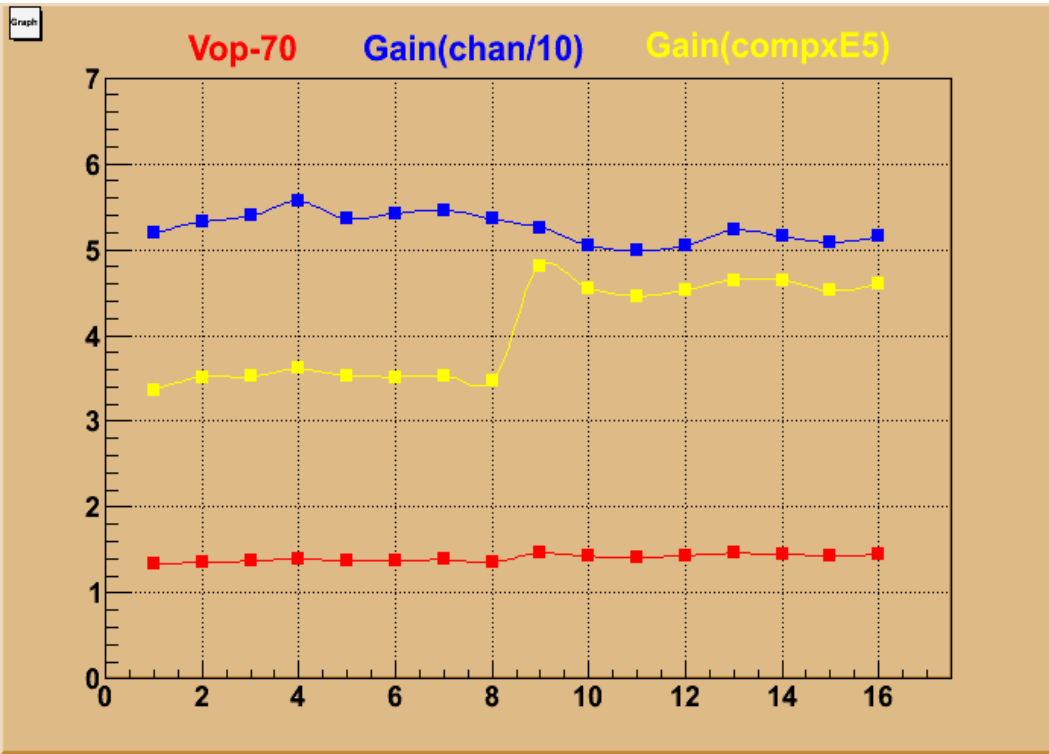
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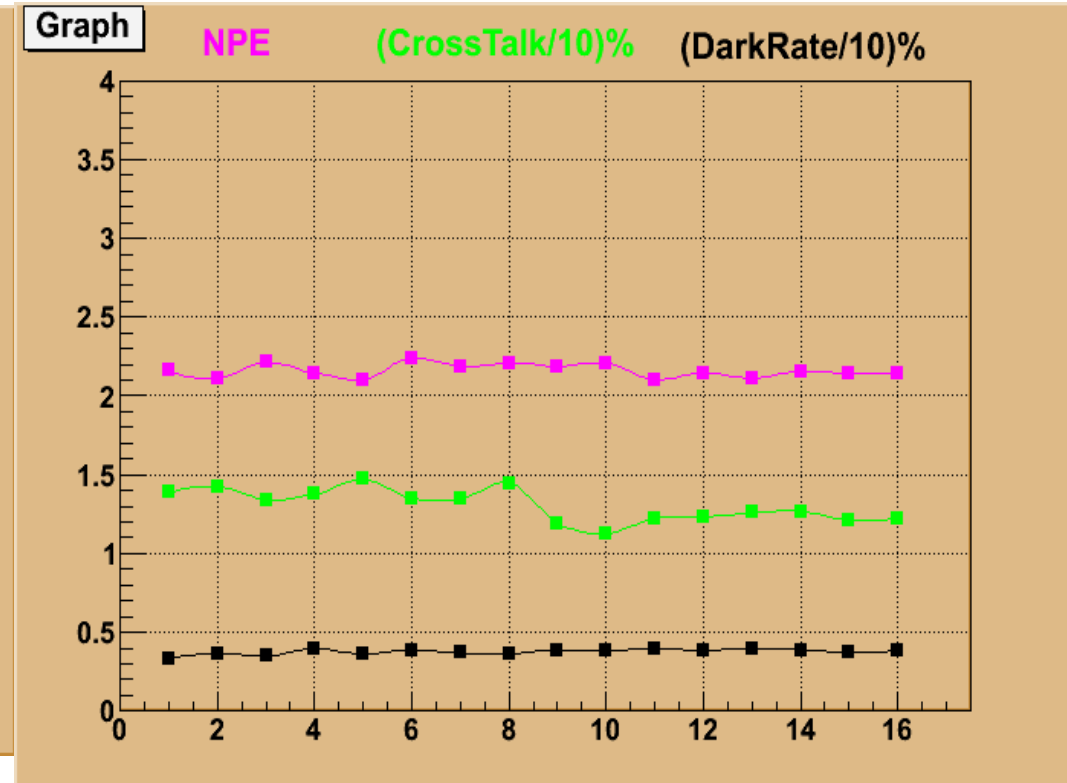
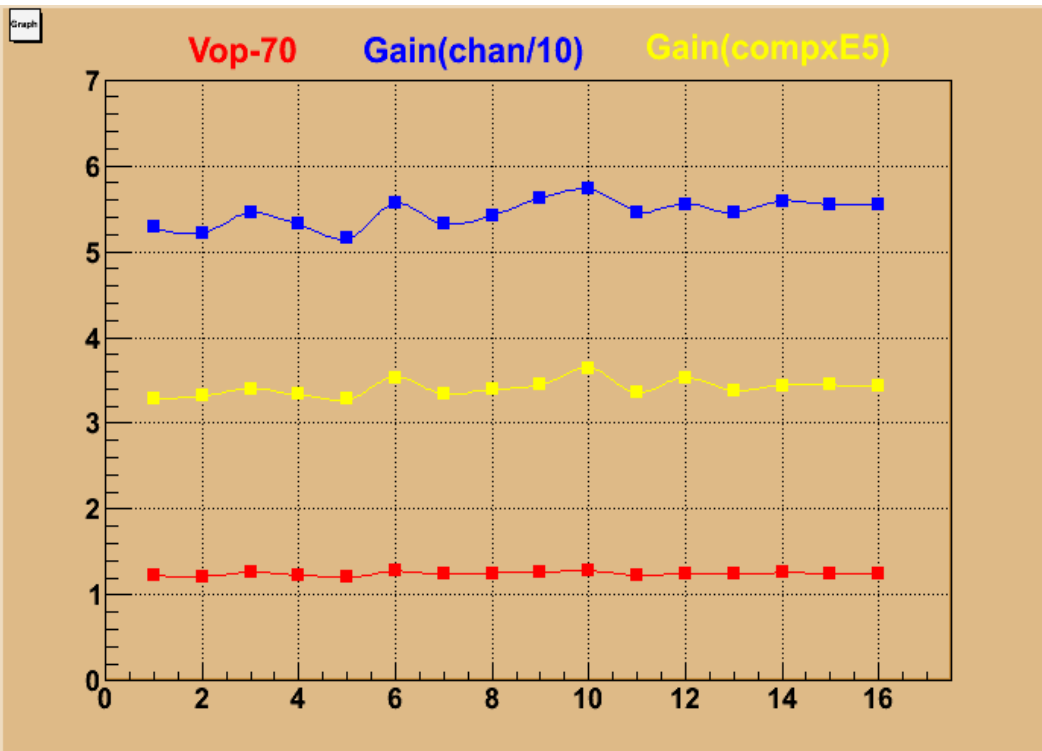
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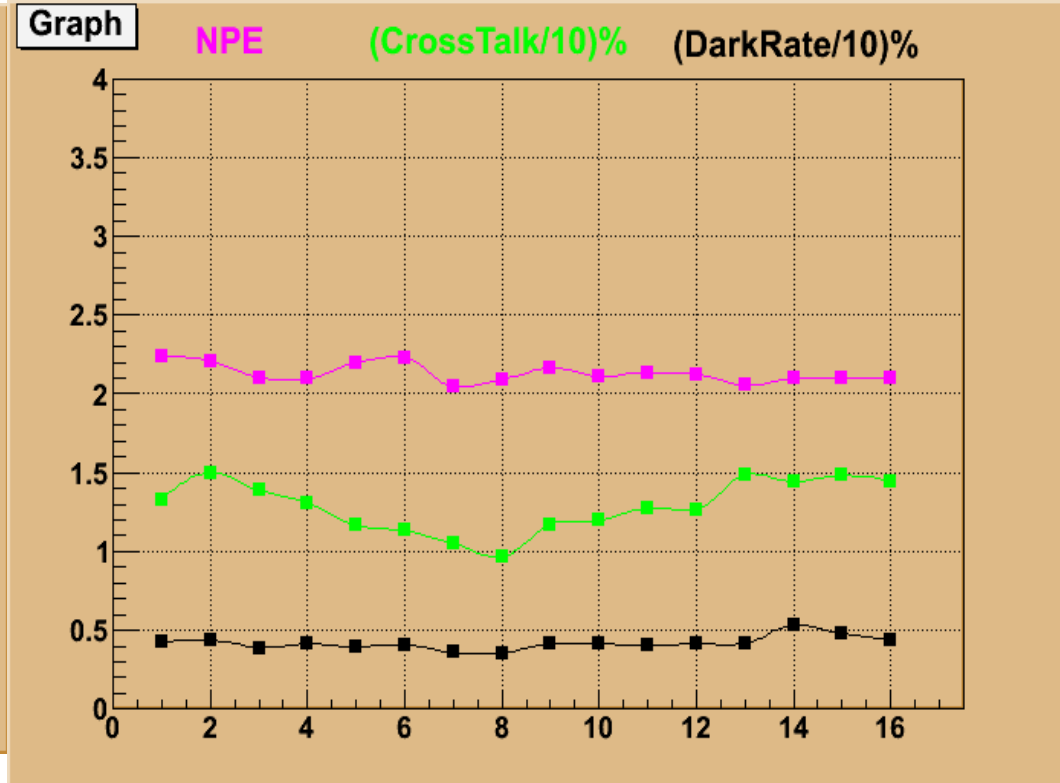
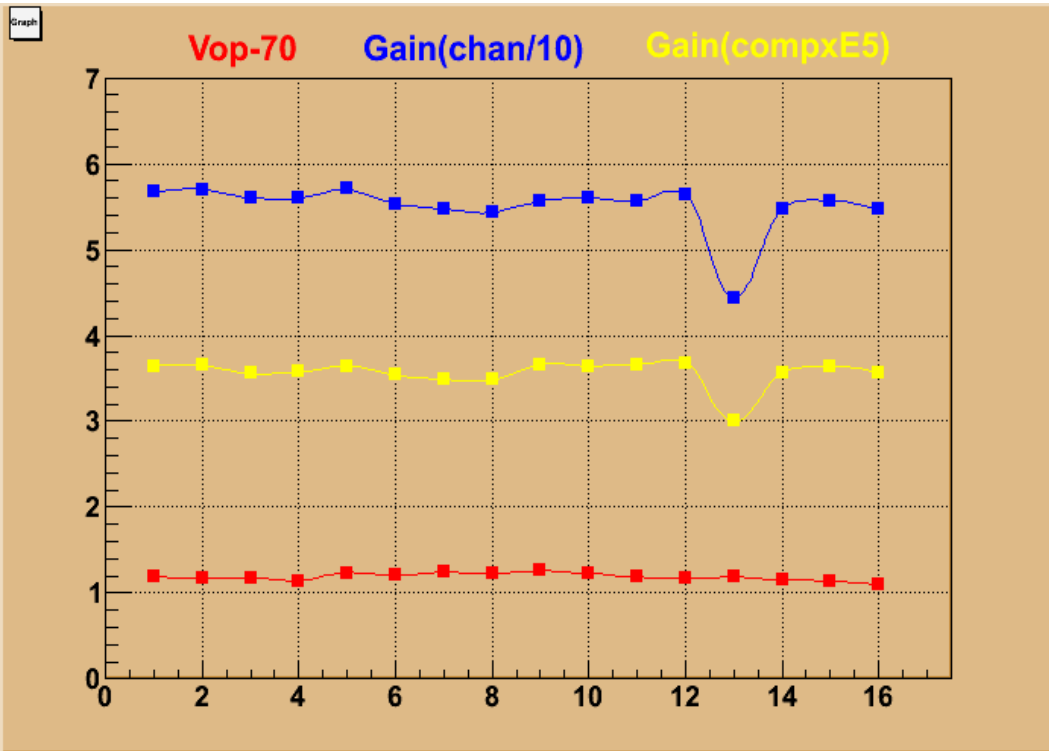
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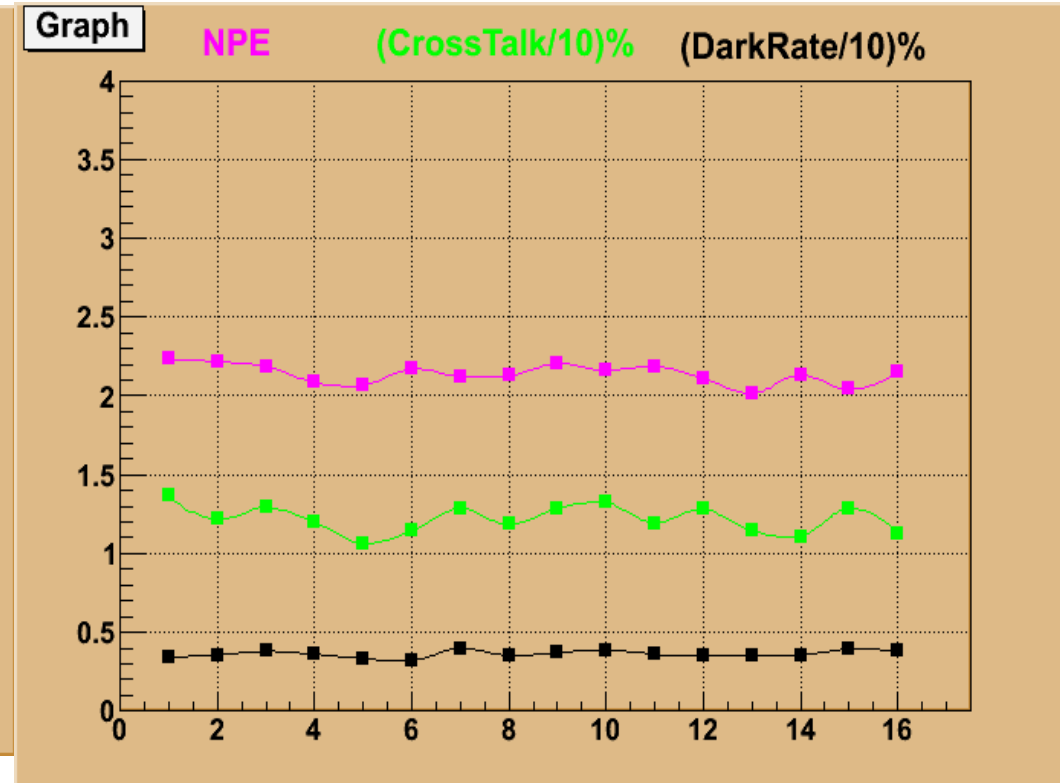
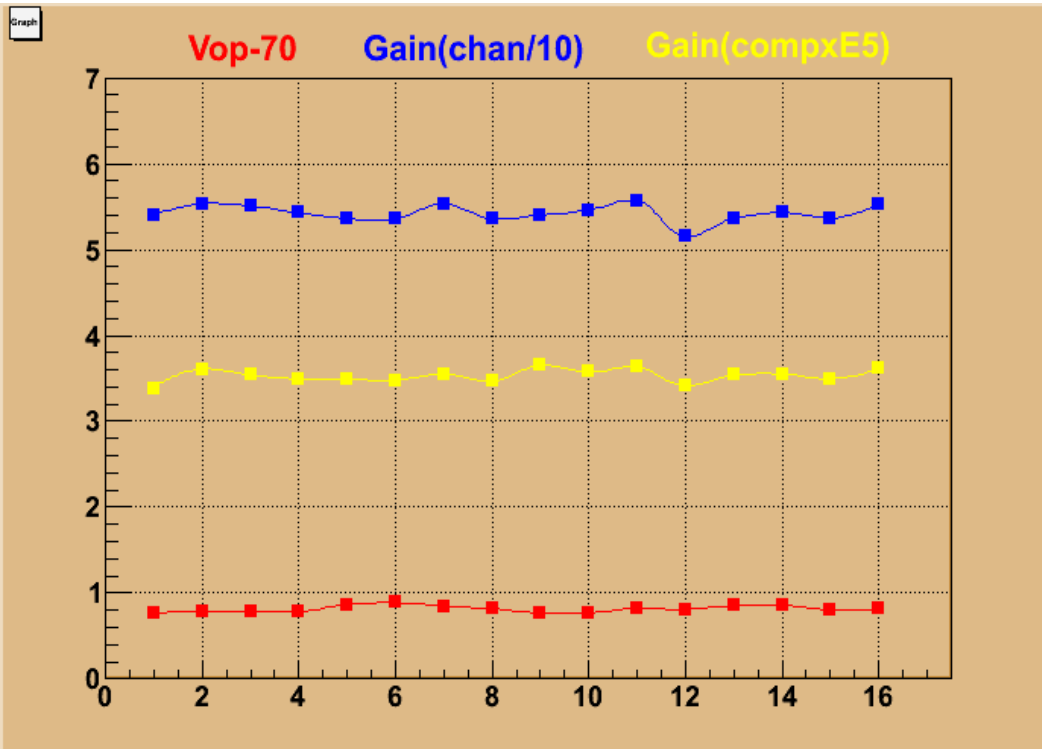
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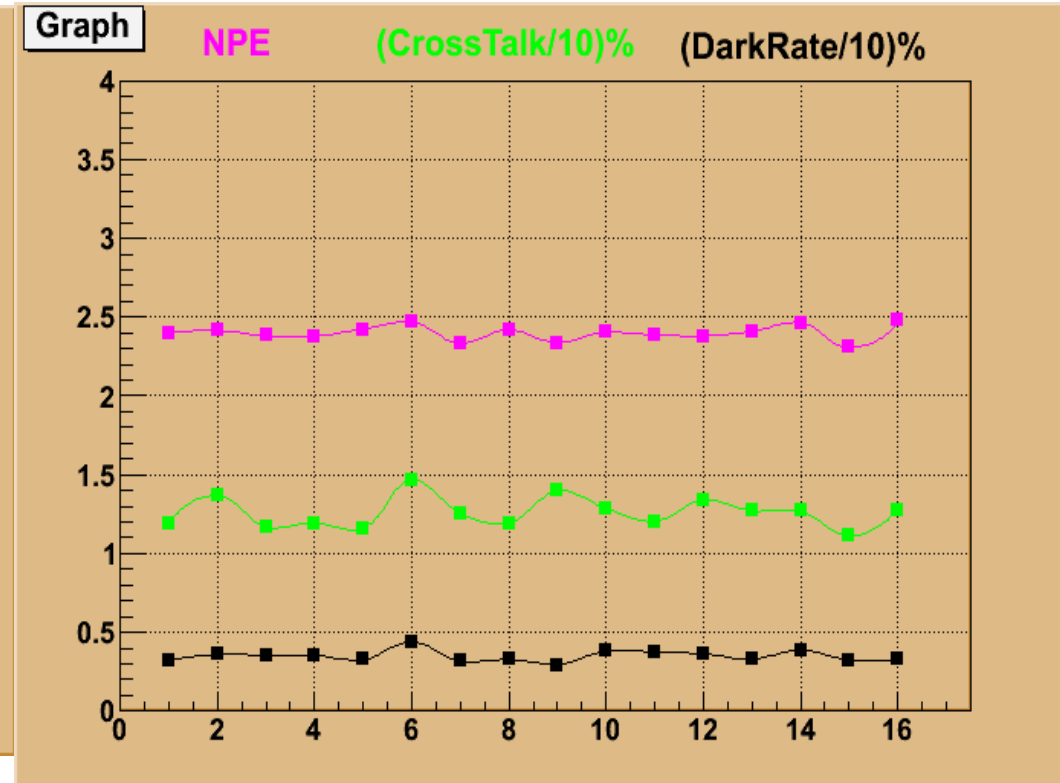
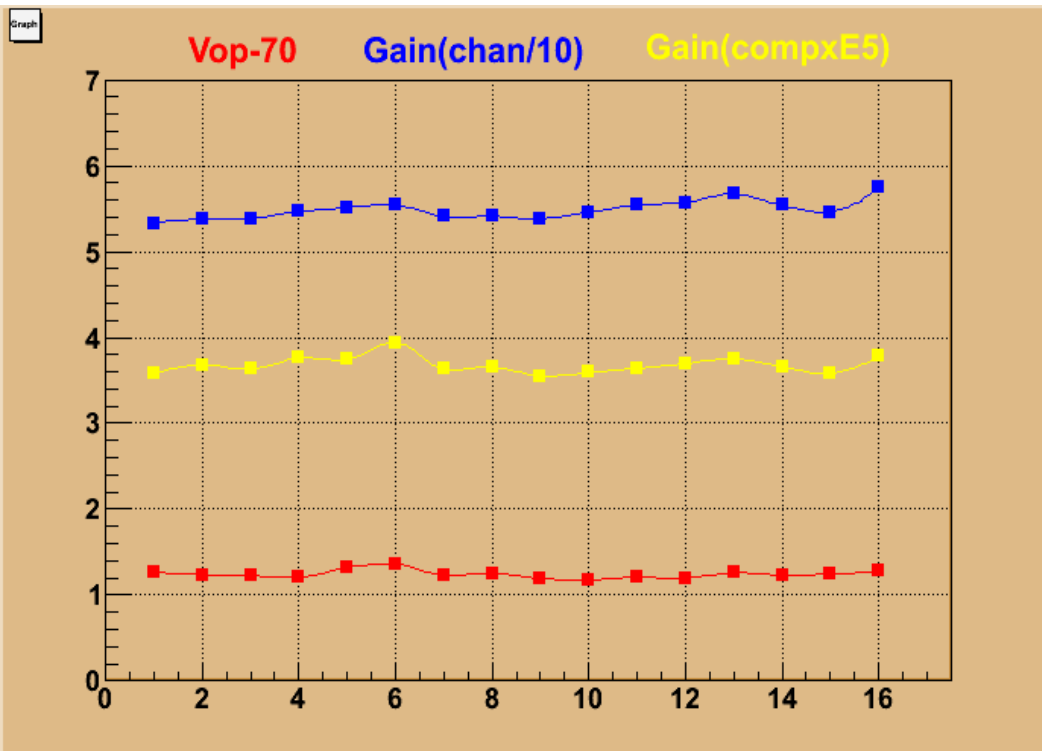
MPPC number 17



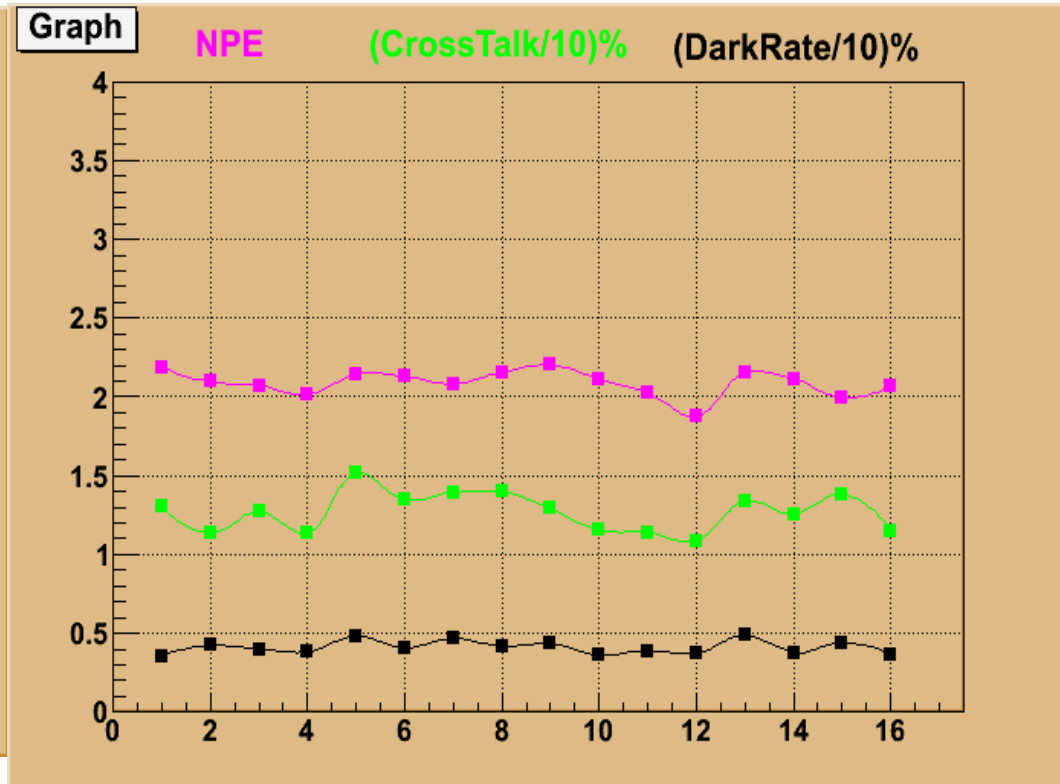
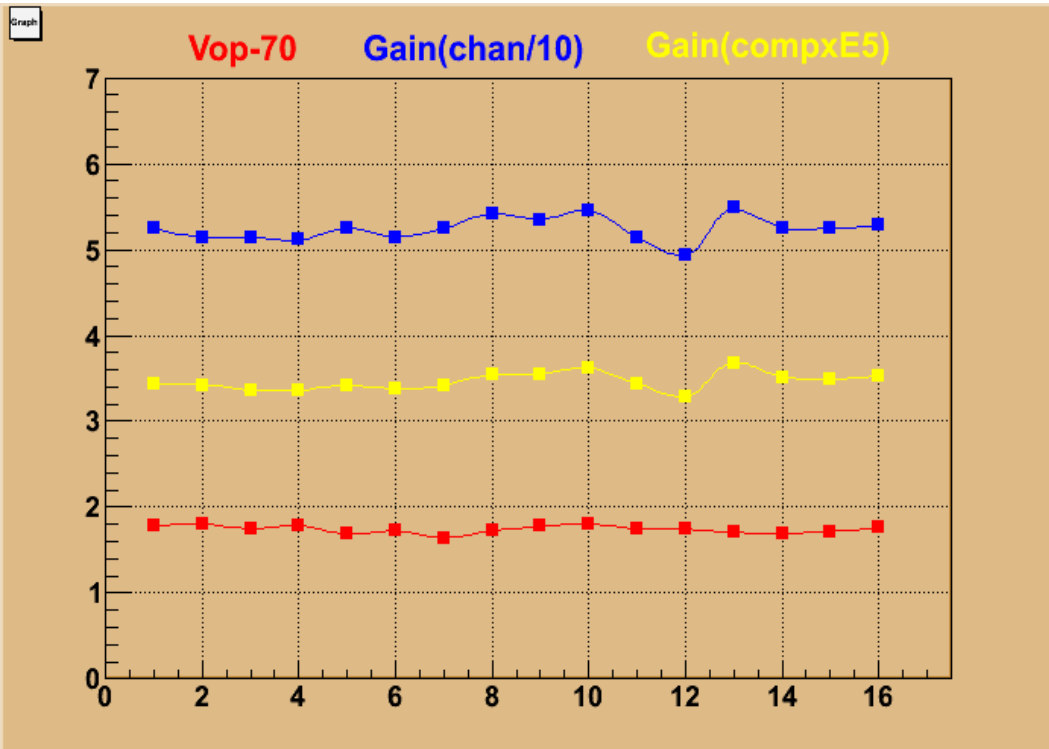
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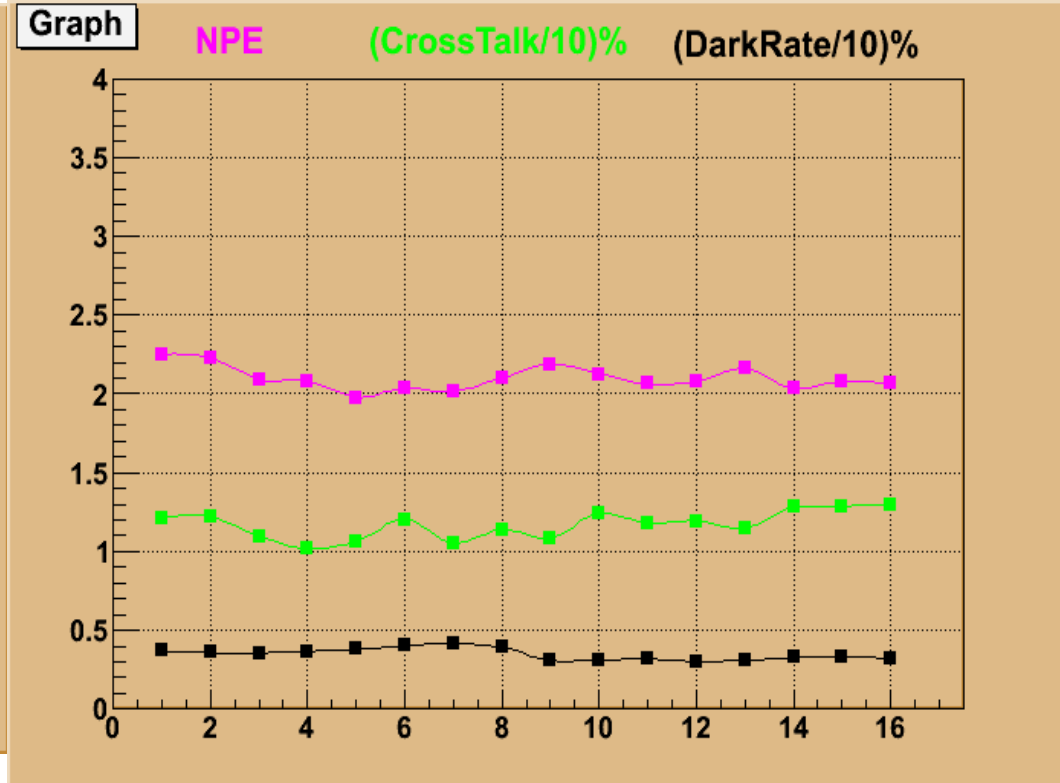
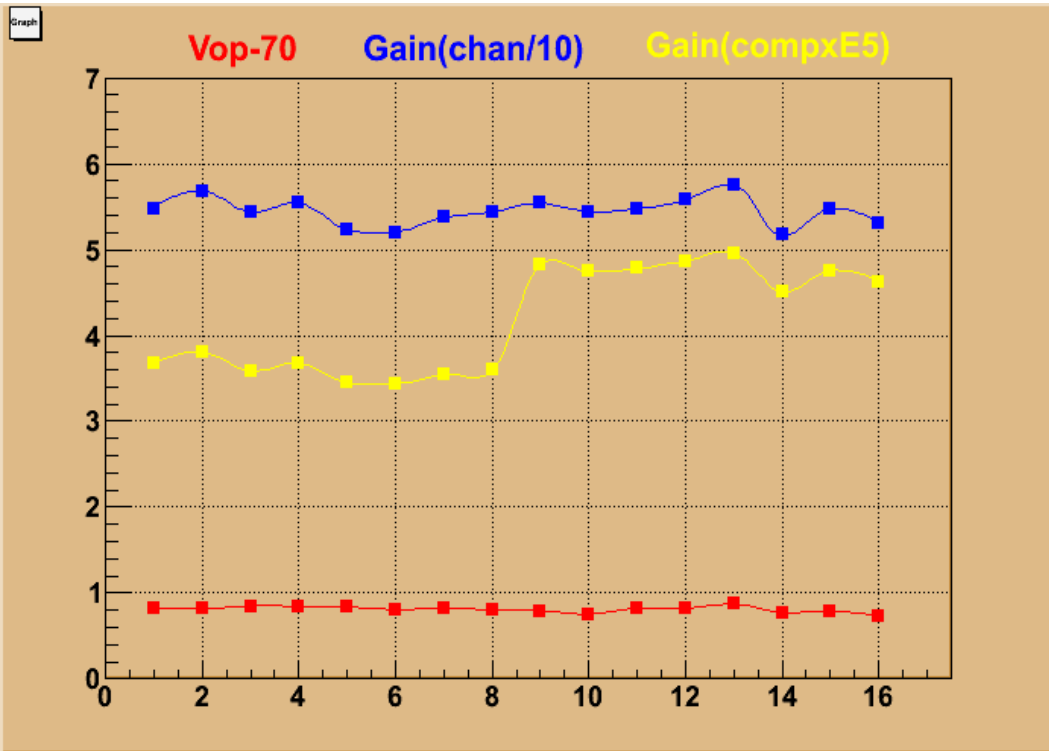
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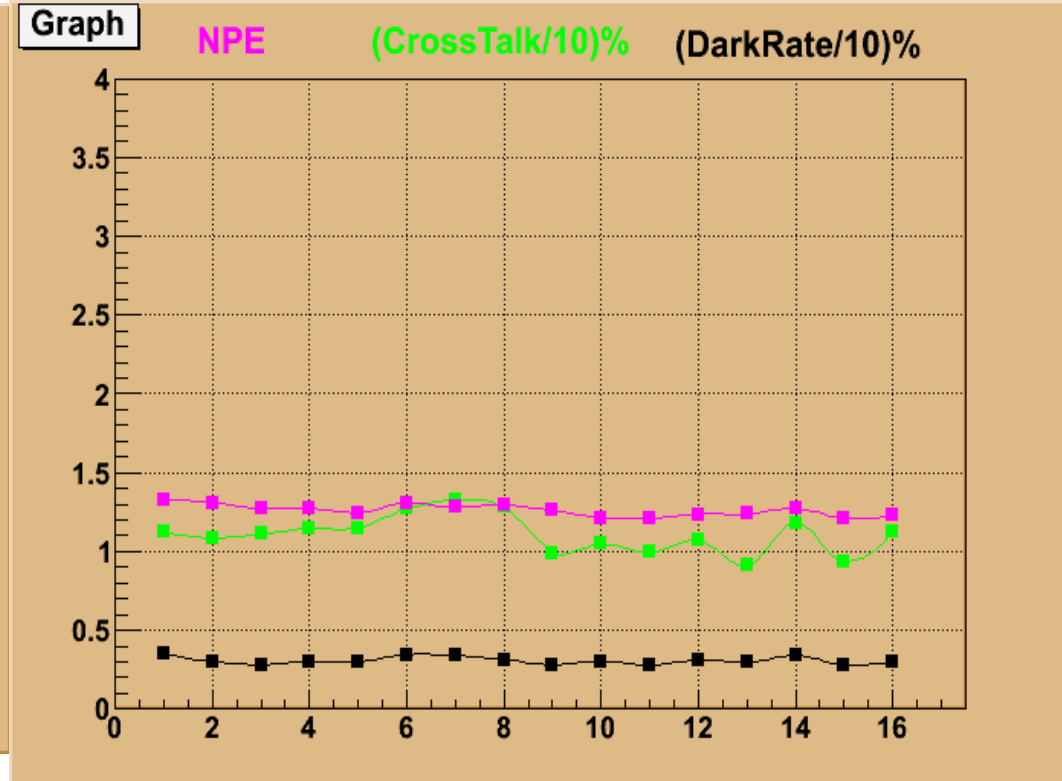
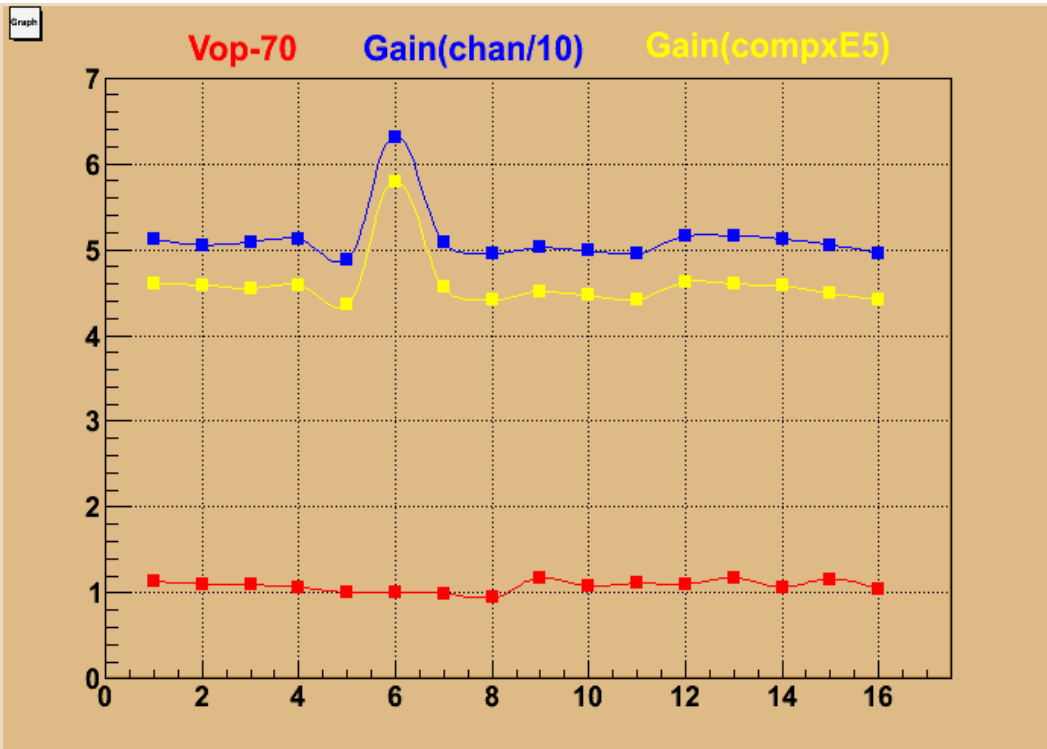
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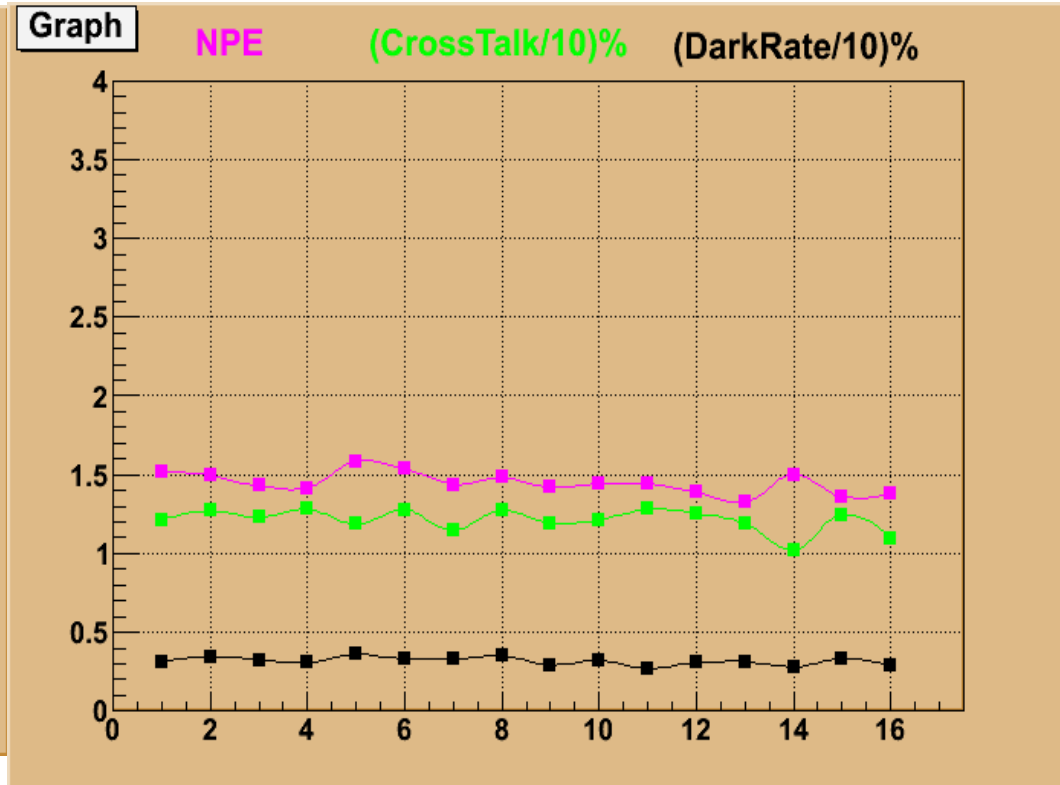
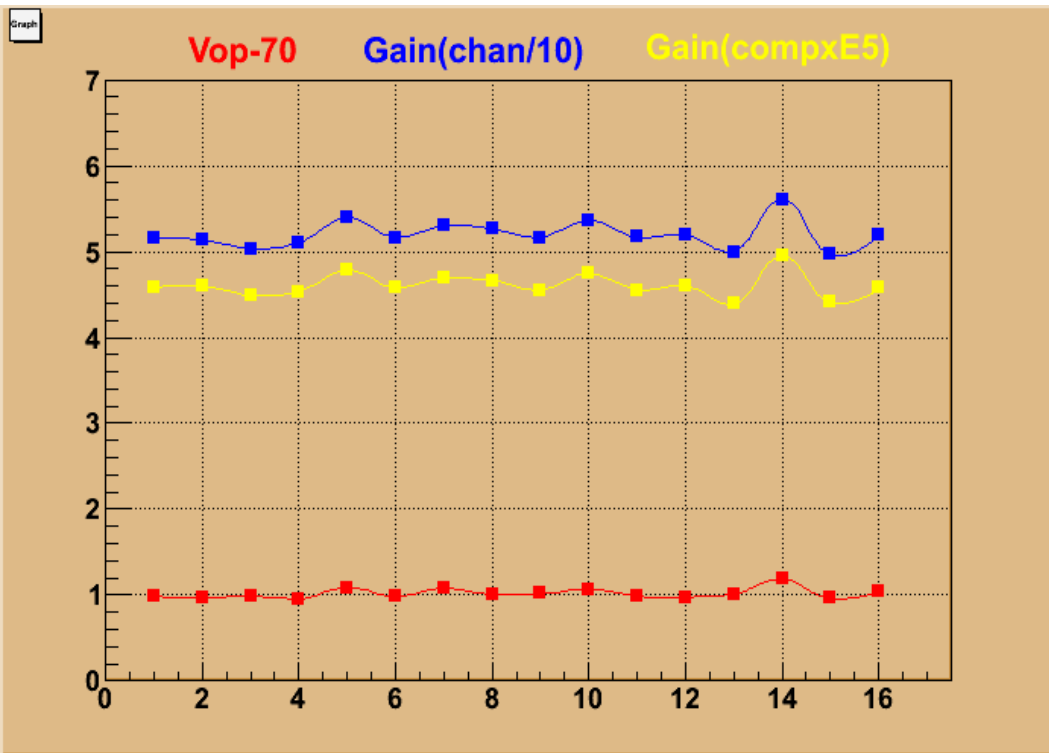
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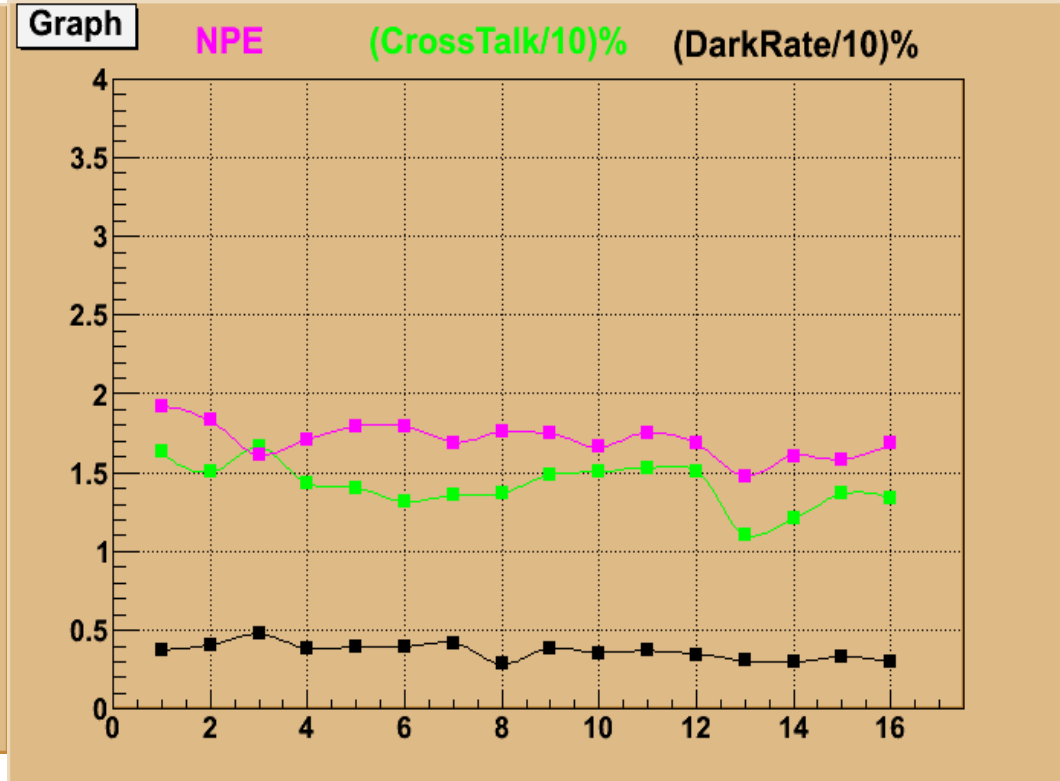
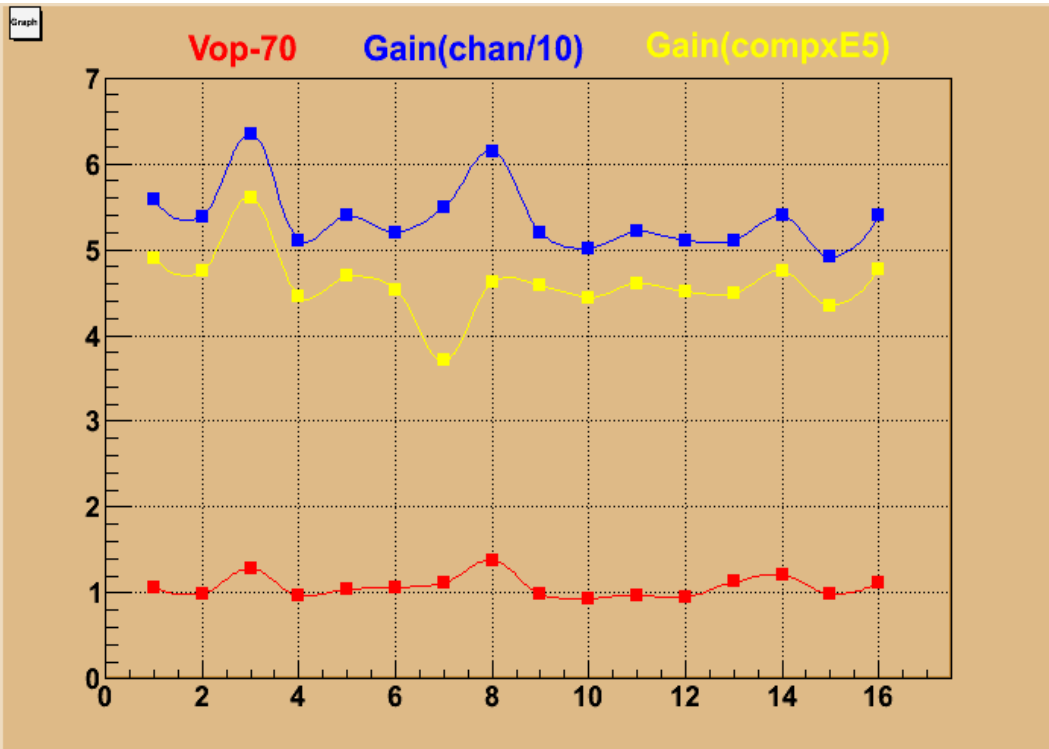
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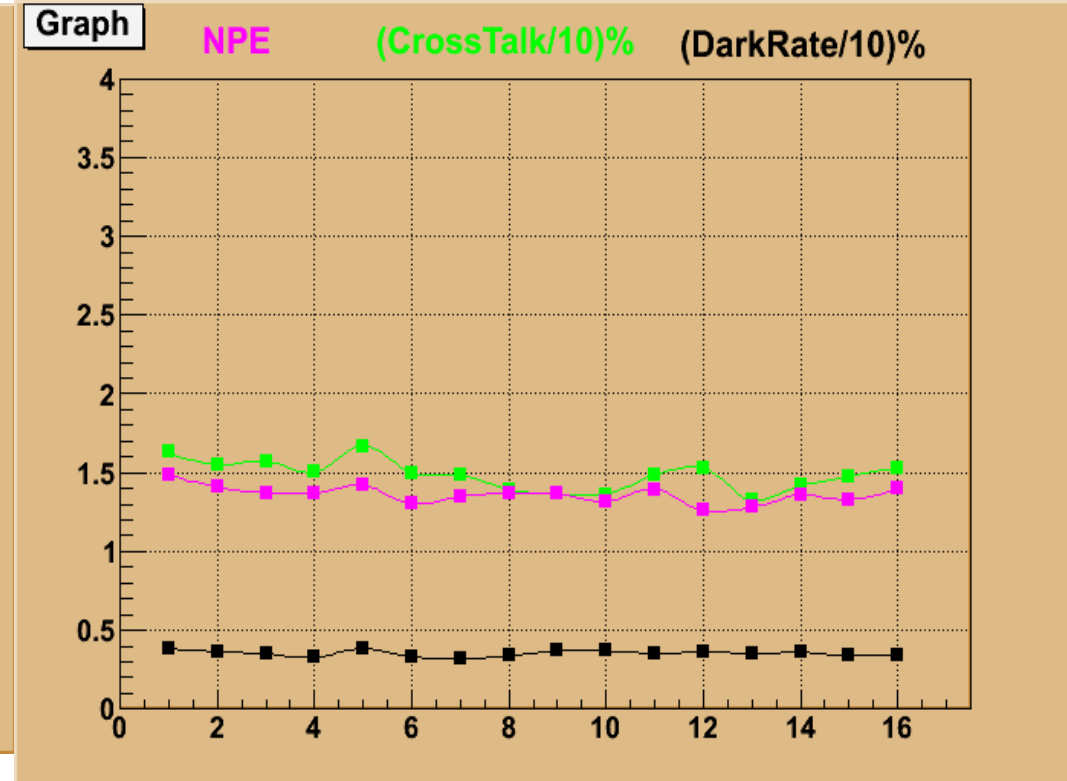
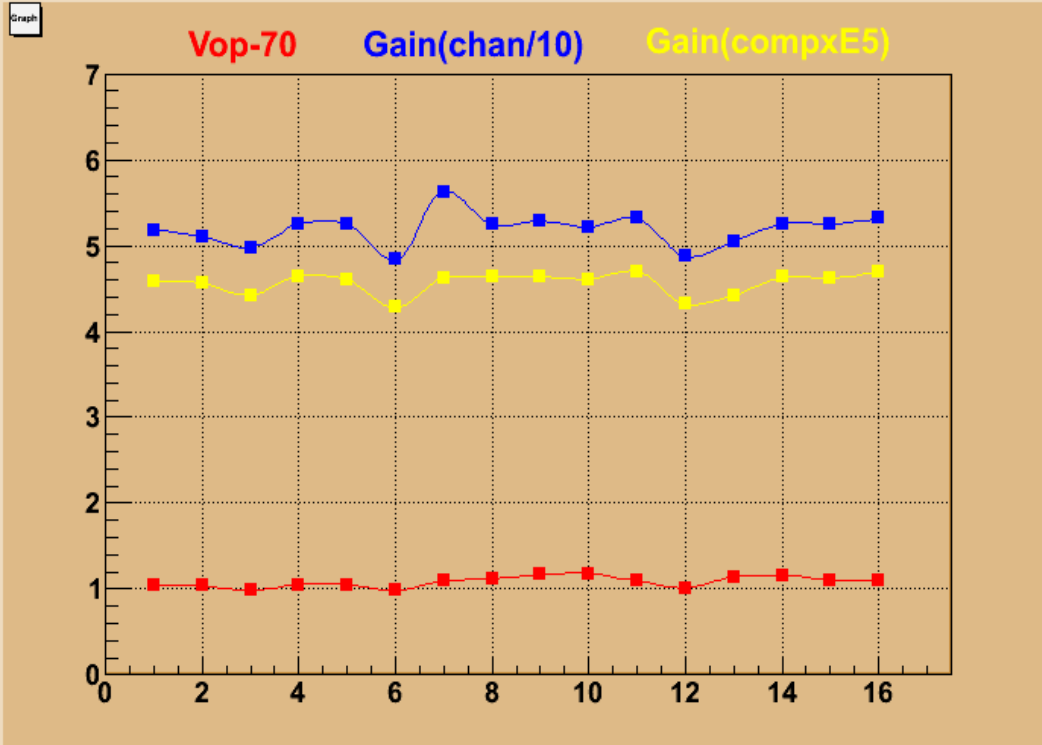
MPPC number 26



MPPC number 28



MPPC number 30



MPPC number 31

