

SDU #6 test result & Fiber connector light loss test

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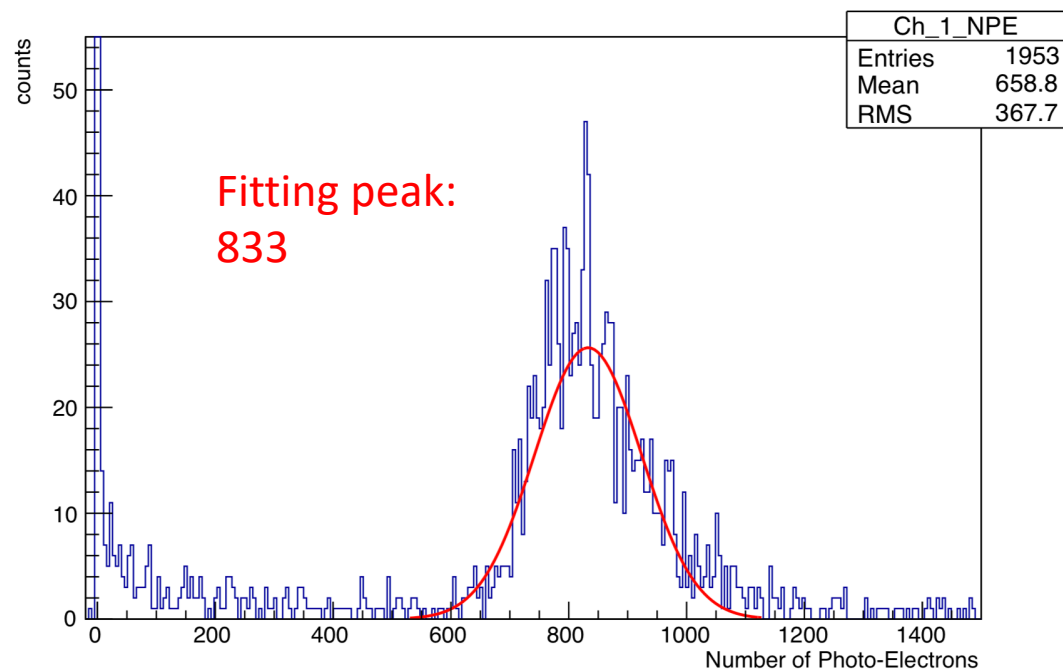
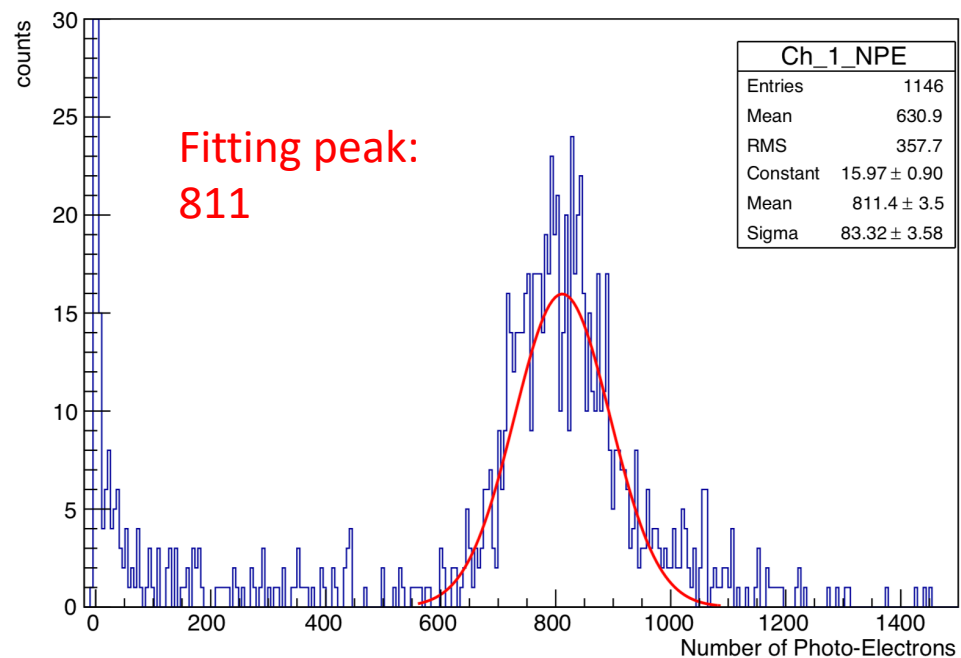
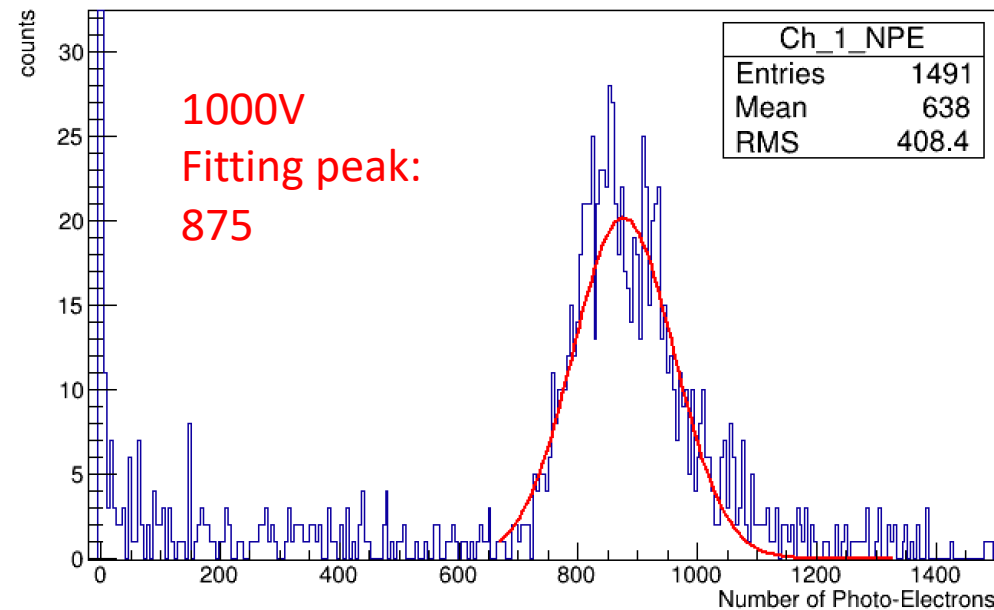
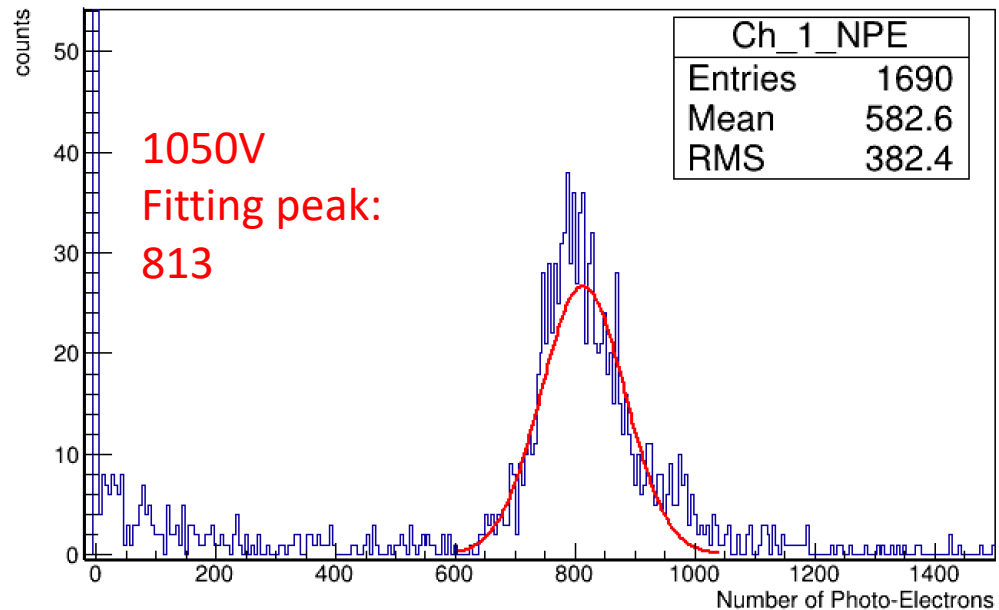
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SDU #6 test result

	PMT No.	HV	Gain(10^6)	NPE
Previous result	67702	1050	4.48	813
		1000	3.09	875
New result	67689	950	3.29	811
	67668	1000	3.26	833

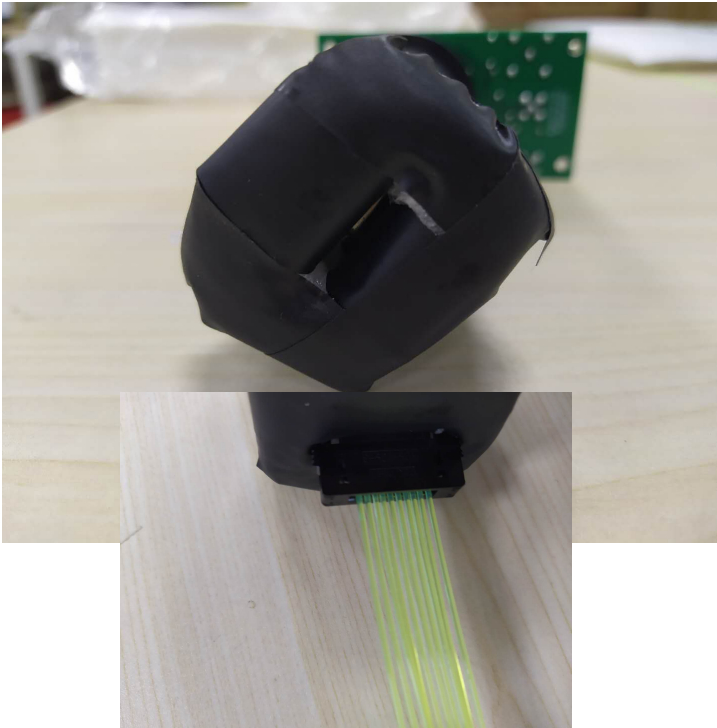


Module No.	Vertical (NPE)	WLS fiber	Scintillator	Fiber reflector	Coating	Reflector layer
SDU #1	212.5	BCF91A-SC	Kedi	No reflector	TiO2+glue	Print paper
SDU #2	413.8	BCF91A-SC	Kedi(enhanced)	Silver mirror	TiO2+glue	Print paper
SDU #3	484.5	Y11-MC	Kedi(enhanced)	Silver mirror	TiO2+glue(29%)	Print paper
SDU #4	563.2	BCF91A-SC	Kedi(enhanced)	ESR film(52%)	TiO2+glue(42%?)	Powder painting
SDU #5	397.7	BCF91A-SC	Kedi(enhanced)	ESR film(43%)	TiO2+glue(27%)	tyvek
SDU #6	~815	Y11-MC	Kedi(enhanced)	ESR film	TiO2+glue(28%)	ESR



WLS-clear fiber connector(DDK) light loss test

- Fiber connector is polished by Chunhui Company.
- The clear fiber type: provided from Chunhui



Fiber No.	WLS light yield	Reverse direction	Connected to 1m Chunhui clear fiber	Light loss
1	2734	2710	1759	0.36
2	2681	2562	1905	0.29
3	2762	2734	1780	0.35
4	2684	2678	1818	0.32
5	2724	2641	1785	0.34
6	2687	2696	1724	0.36
7	2681	2657	1785	0.33
8	2703	2683	1883	0.30
9	2683	2726	1860	0.31
10	2664	2648	1813	0.32

FC fiber connector light loss test

The fiber used in attenuation length test, and FC fiber connector is applied.



	Only WLS fiber	Connected to 1 m Chunhui clear fiber	Light loss
test1	3025	2298	25%
test2	3021	2288	25%