

WP	topic		Week							
			June 19	26	July 3	10	17	24	31	Aug 7
0	make plan									
1	electronic mod.s									
2	mechanics mod.s									
3	performance eval									
4	continue/postpone									
5	H6 test									
6	H8 install/disinstall									
7	Test Beam								parassitic	master

June 10

electronics

mechanics

DAQ/Online

decision

ISSUES:

- PCB ground not isolated from aluminum frame (electronics and mechanics issues)
- Lemo connections
- replace interposers with flexes
- grounding
- DS V noise, US4 R small SiPMs

WARNING:

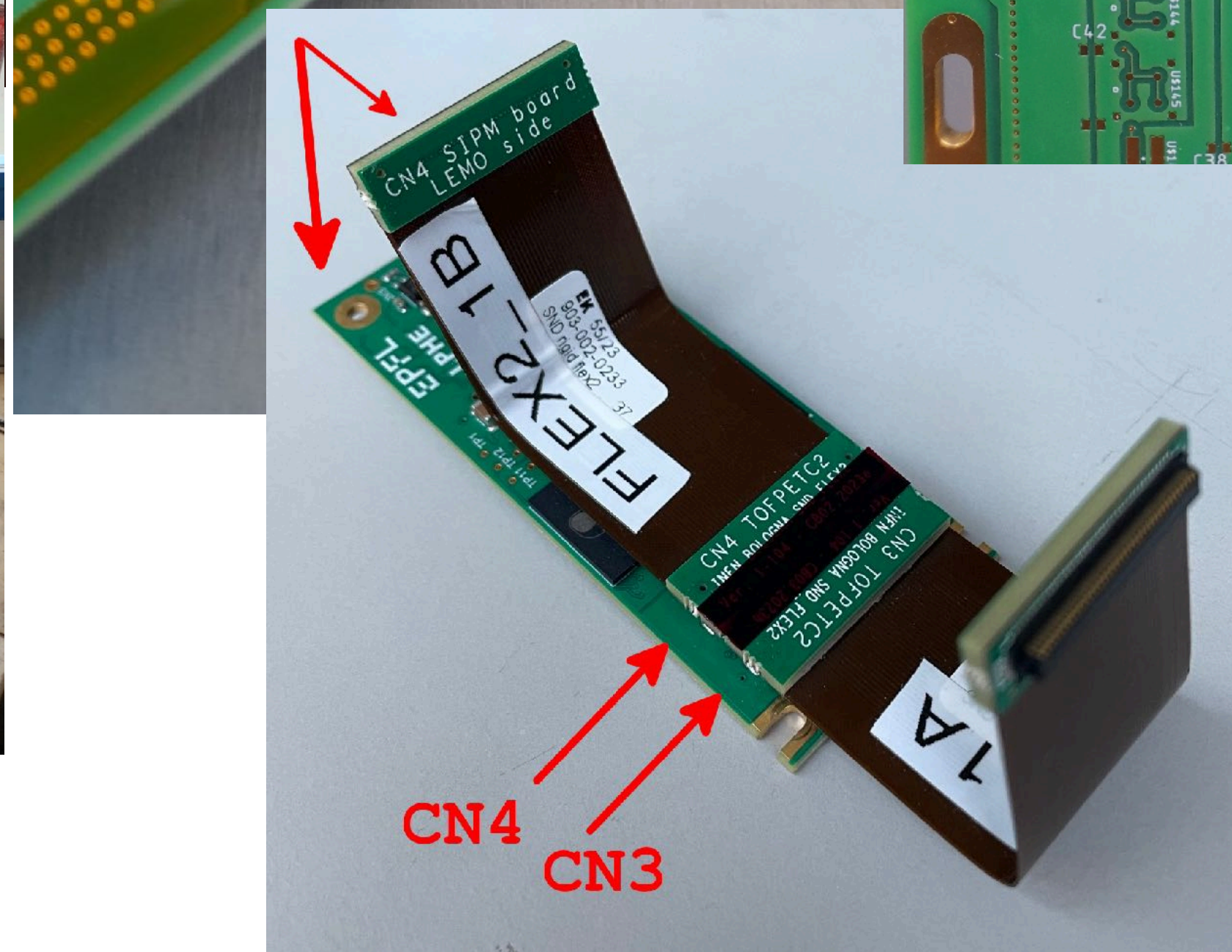
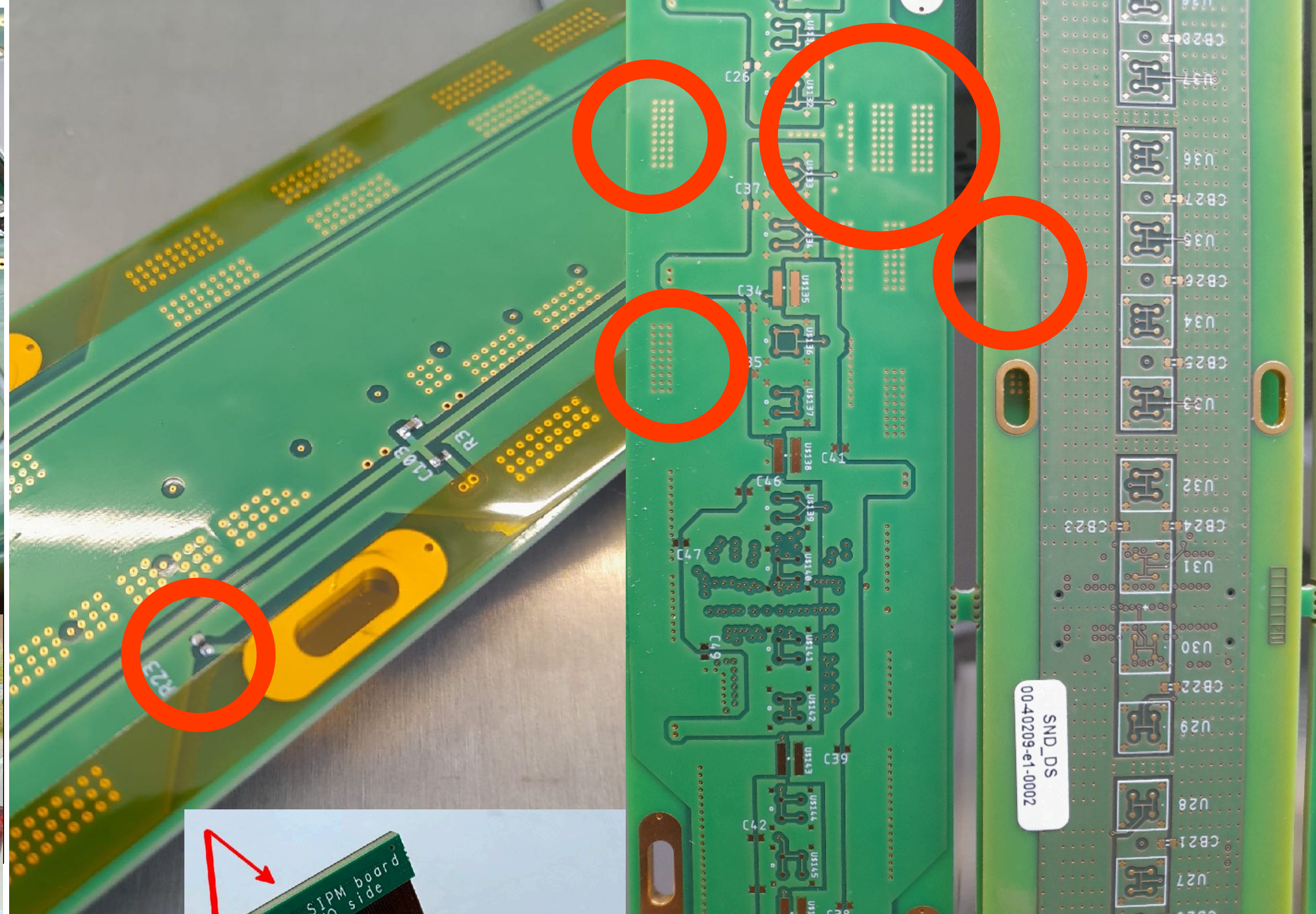
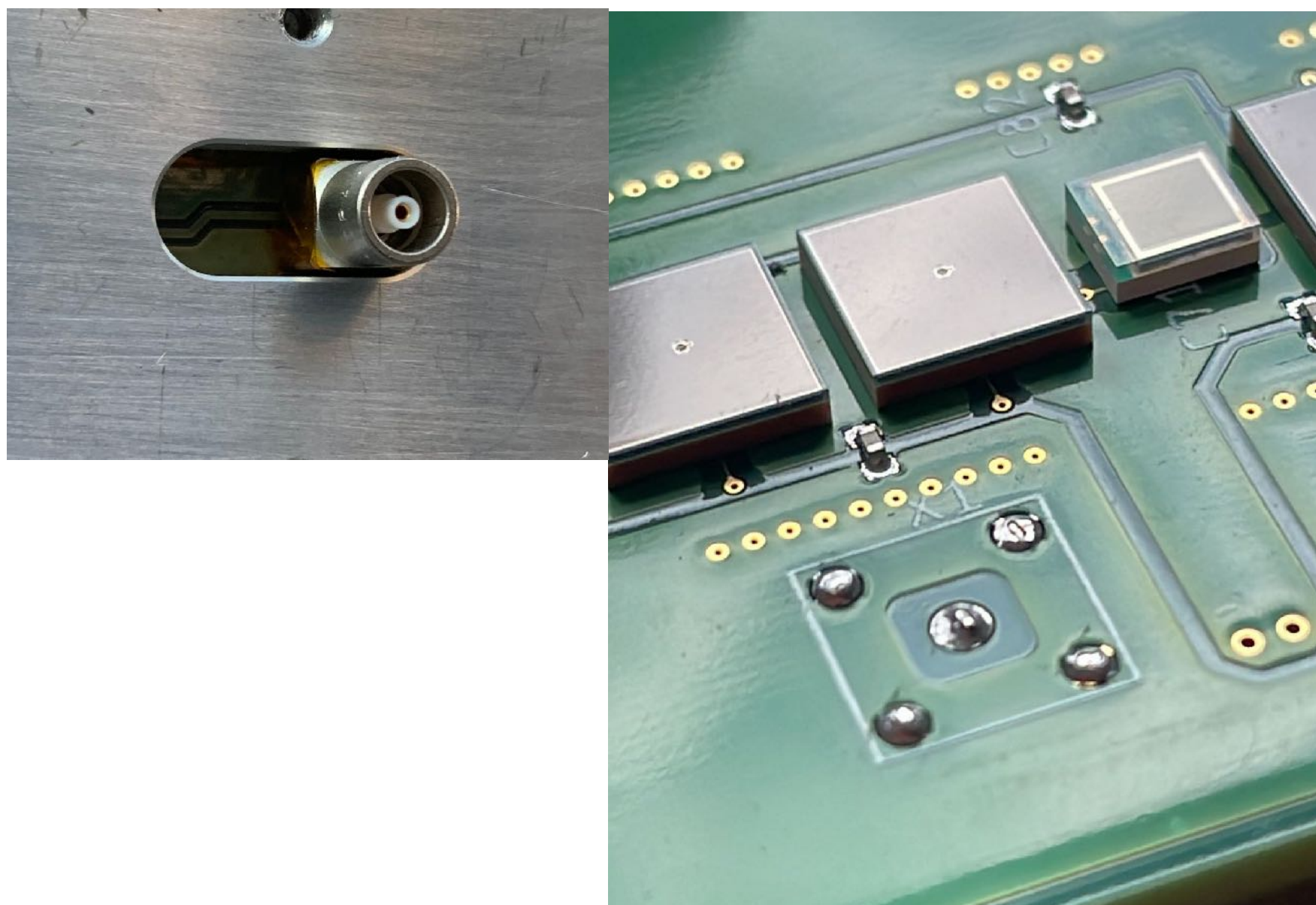
- people from July 17 to August 14
- shift instructions
- DAQ board for beam counters

WP 1,2,3 week June 19

PEOPLE:
1: Casimiro,Marco
2: Andrew,Vittorio,Chris
3: Federico,Filippo,Simona

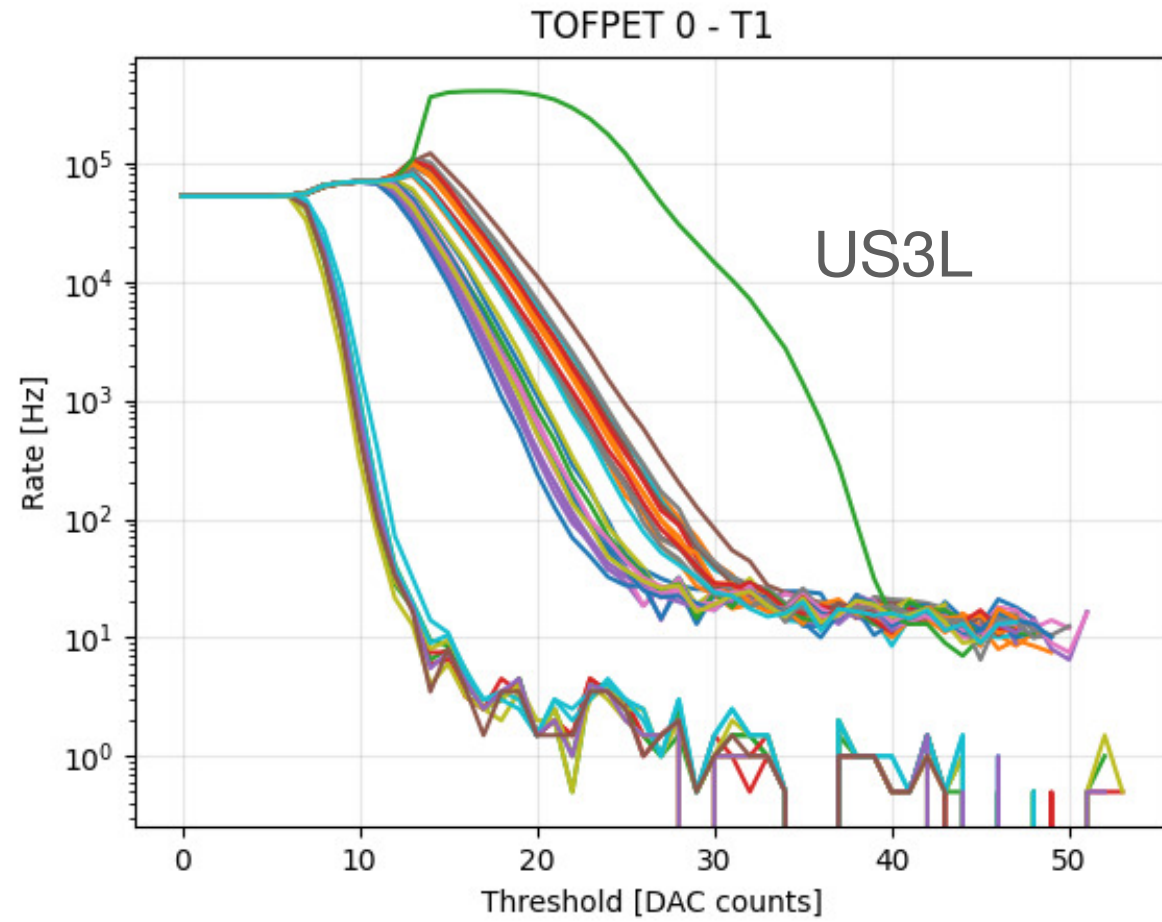
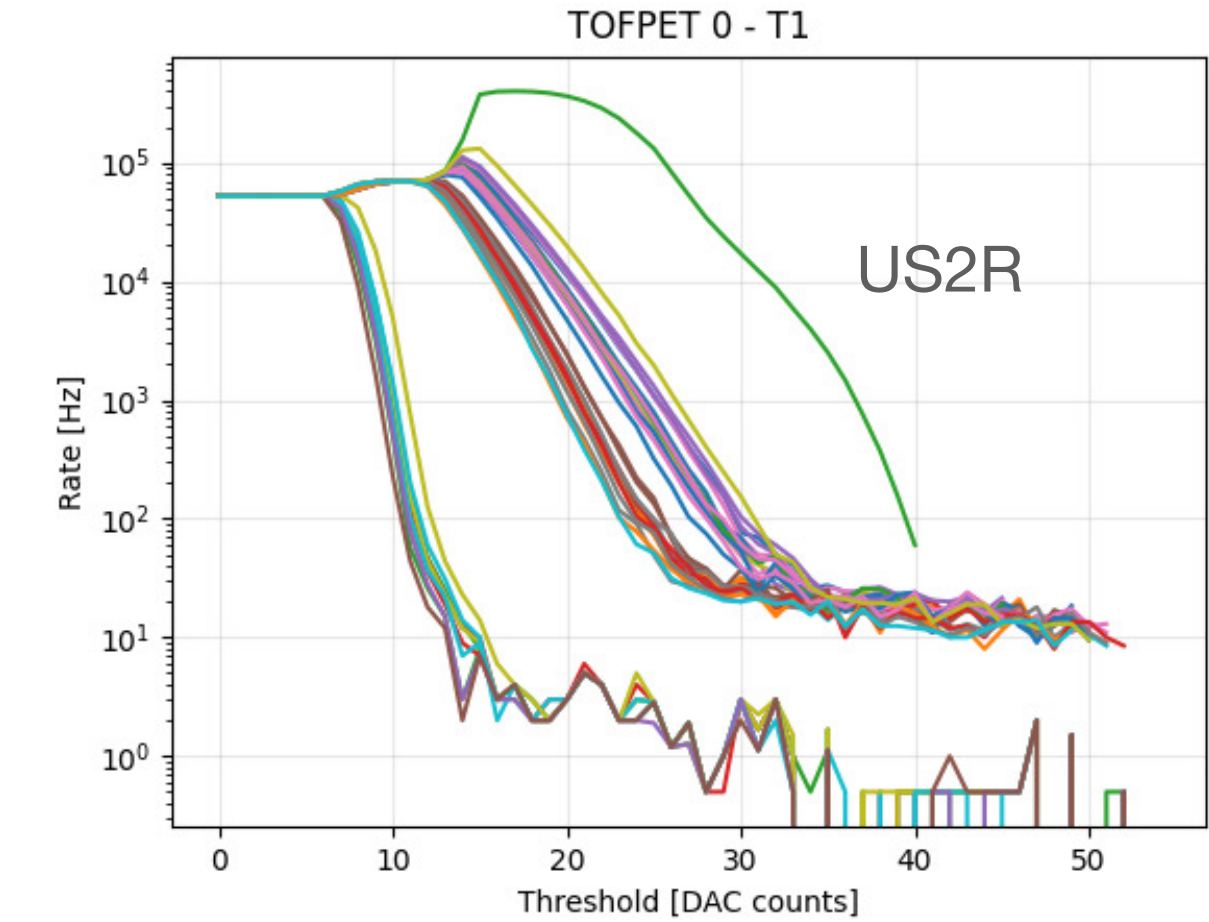
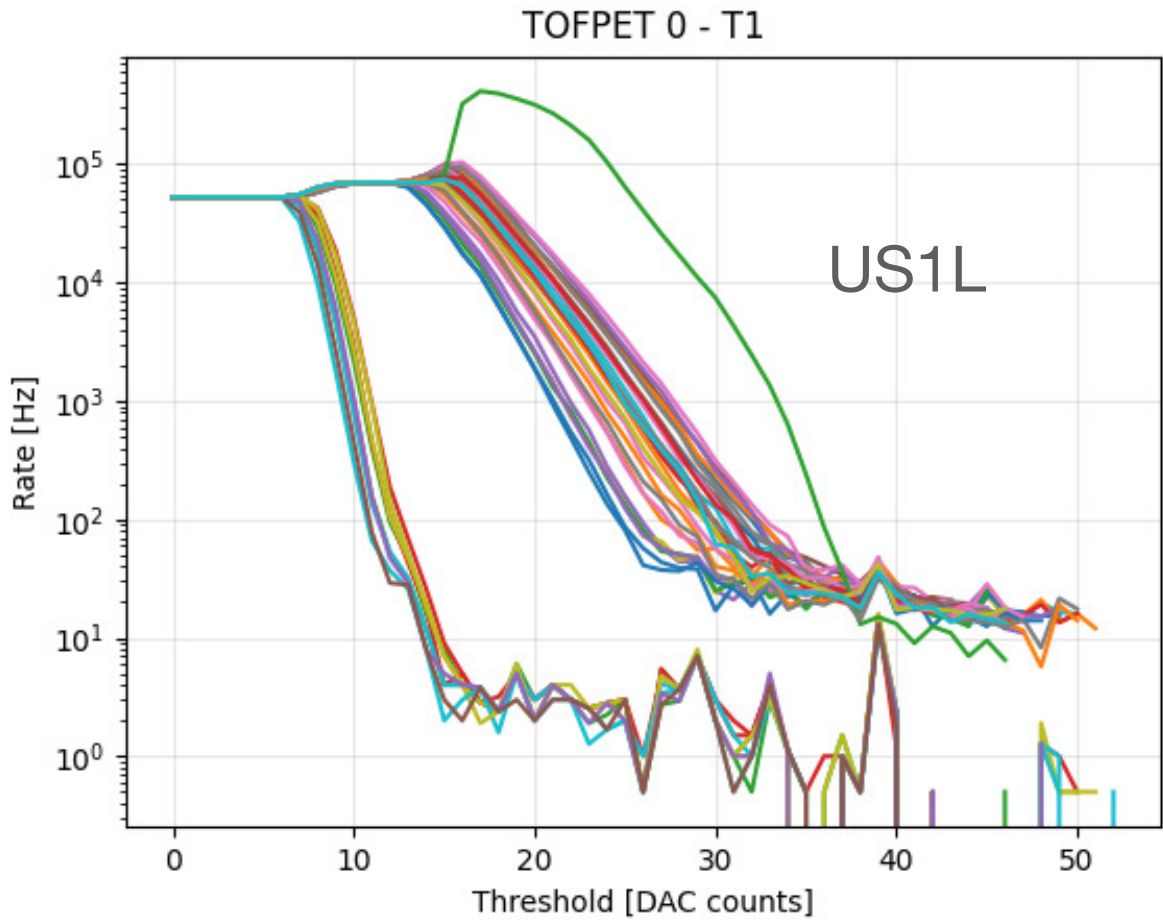
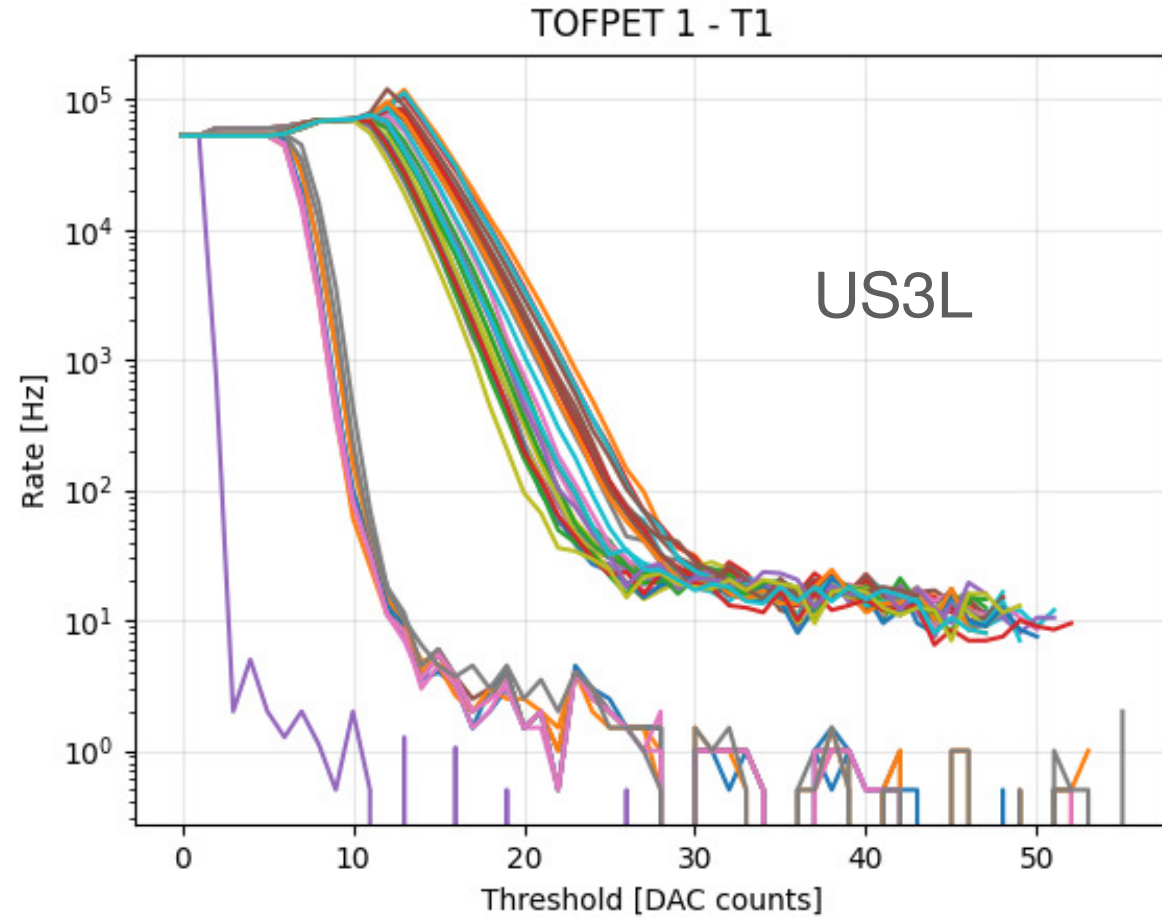
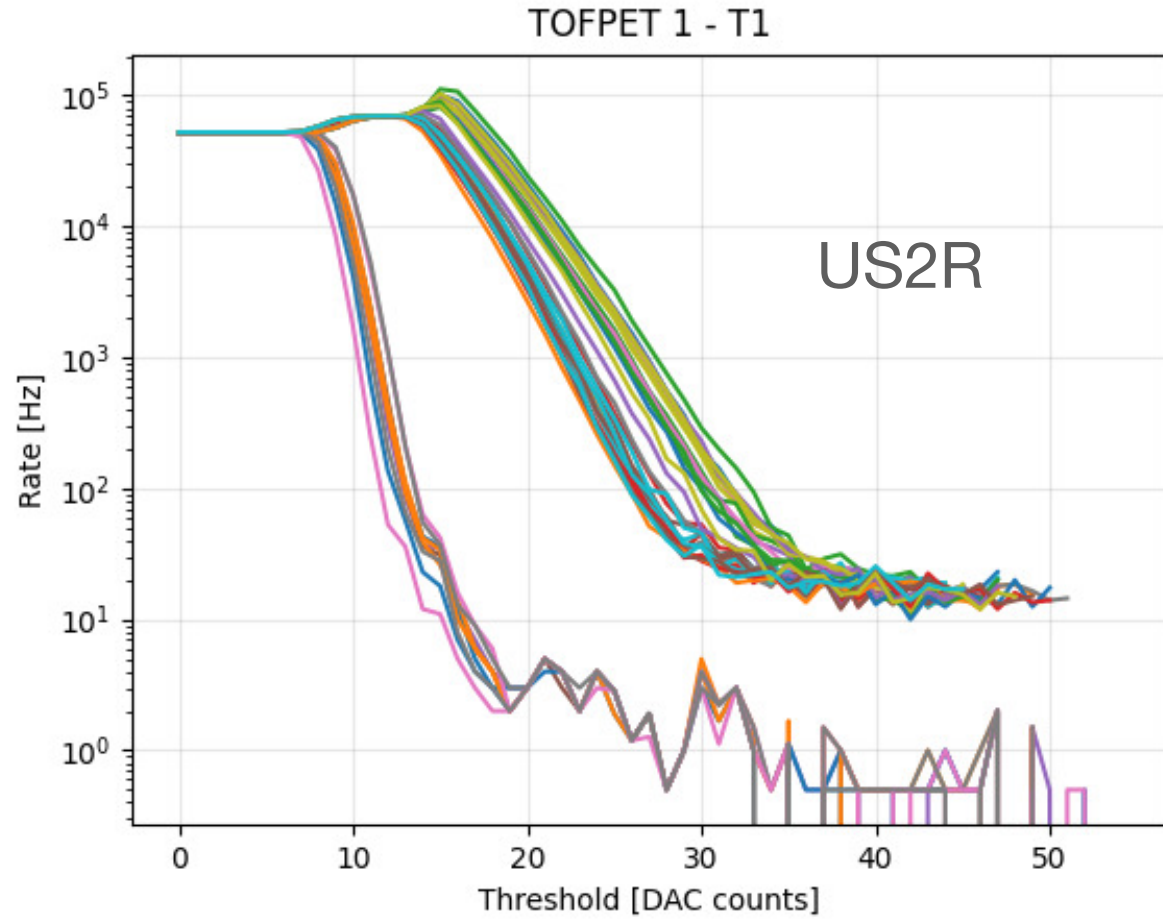
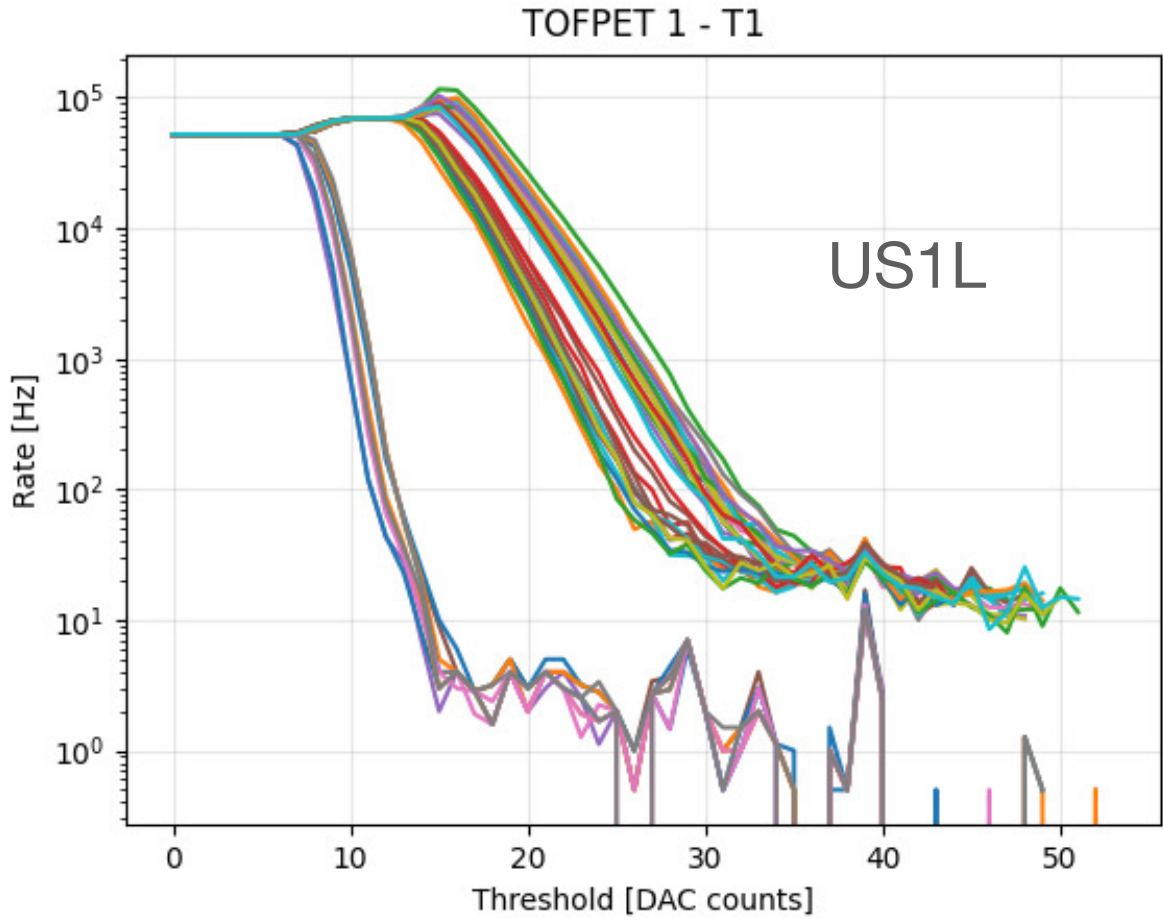
LOCATIONS:
work lab B29
mech. workshop B28
clean room B107/R-A39

day	work plan	who	status
19 Mon			
pm	2: B29: remove and label PCBs and covers from all US chambers no gel side (ngs) , protect with Kapton Note:GEL SIDE: US1R,2L,3R,4L,5L	Marco+Federico	✓
20 Tues am	1:B29: check PCB US 1,2,3 ngs, bias capacitors, lemo solder check; investigate US 4 R small SiPM (capacitor broken) 2:B29,28: check cover US1,2,3,4,5 no gel side; rework lemo holes, check cover-PCB-frame match US1,2,3	Casimiro Vittorio	✓ ✓
pm	2: B29: assemble US1,2,3 ngs, install flexes 3: B29: perform full test US1,2,3 ngs	Vittorio+Casimiro Federico+Filippo	✓ ✓
21 Wed am	1: B29: check PCB US 4,5 ngs, bias capacitors, lemo solder check; 2: B29,28: check cover-PCB-frame match US5 ngs; assemble US4,5 ngs, install flexes 3: B29: perform full test US4,5 ngs	Casimiro Vittorio+Casimiro Filippo	✓ ✓ ✓
pm	2: B107: remove and label PCBs and covers from all US chambers gel side (gs) , protect with Kapton; make gel 1: B29: check ground cables	Andrew+Chris+Vittorio Casimiro	✓ ✓
22 Thur am	1: B29: check PCB US 1,2,3 gs, bias capacitors, lemo solder check; 2: B29,28: check cover US1,2,3,4,5 gel side; rework lemo holes, check cover-PCB-frame match US1,2,3,4,5	Casimiro Vittorio	✓ ✓
pm	2: B107,29: put gel and assemble US1,2,3 gs; install flexes; 3: B29: perform full test US1,2,3 gs 1: B29: check PCB US 4,5 gs, bias capacitors, lemo solder check;	Andrew+Vittorio+Marco Filippo+Simona Casimiro	✓ ✓ ✓
23 Fri am	2: B107,29: put gel and assemble US 4,5 gs; install flexes; 3: B29: perform full test US4,5 gs	Andrew+ Casimiro Simona	✓ ✓
pm			
24 Sat am	contingency		

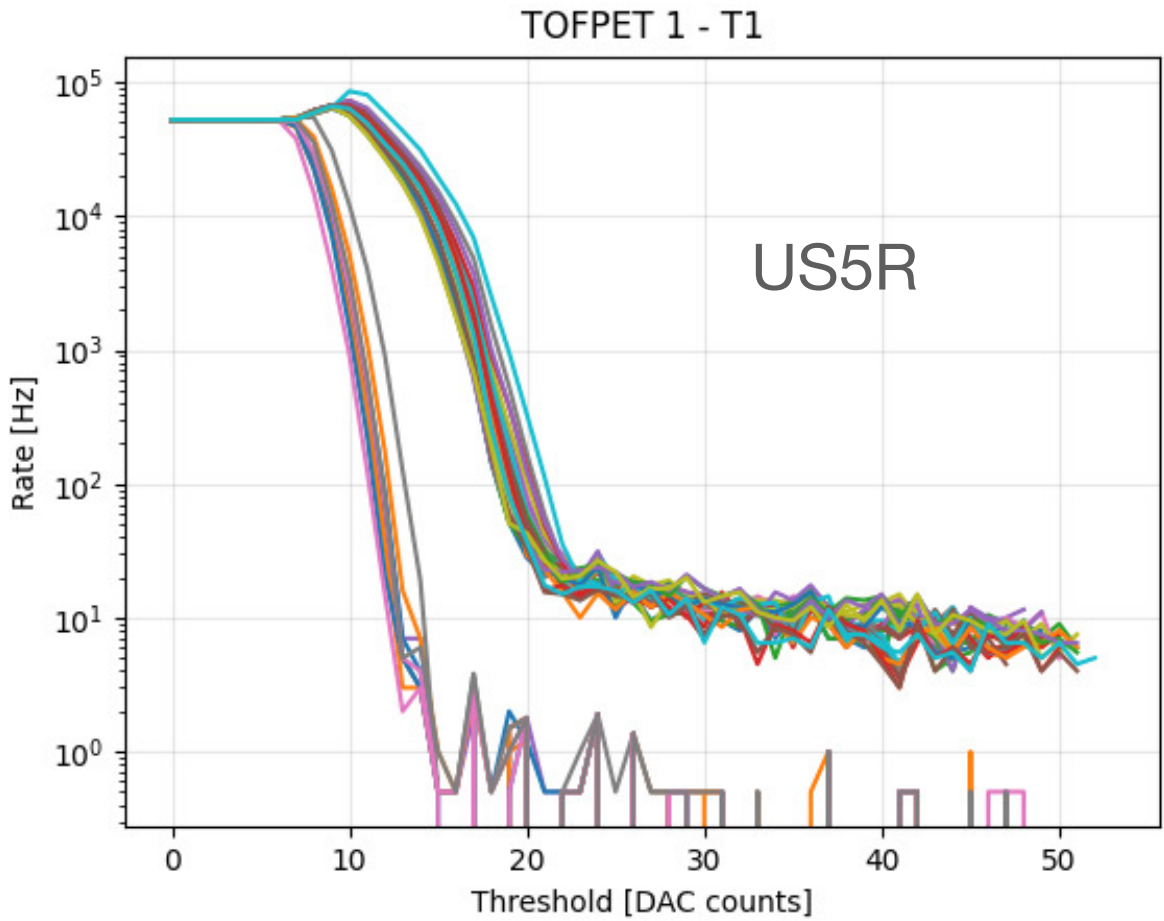
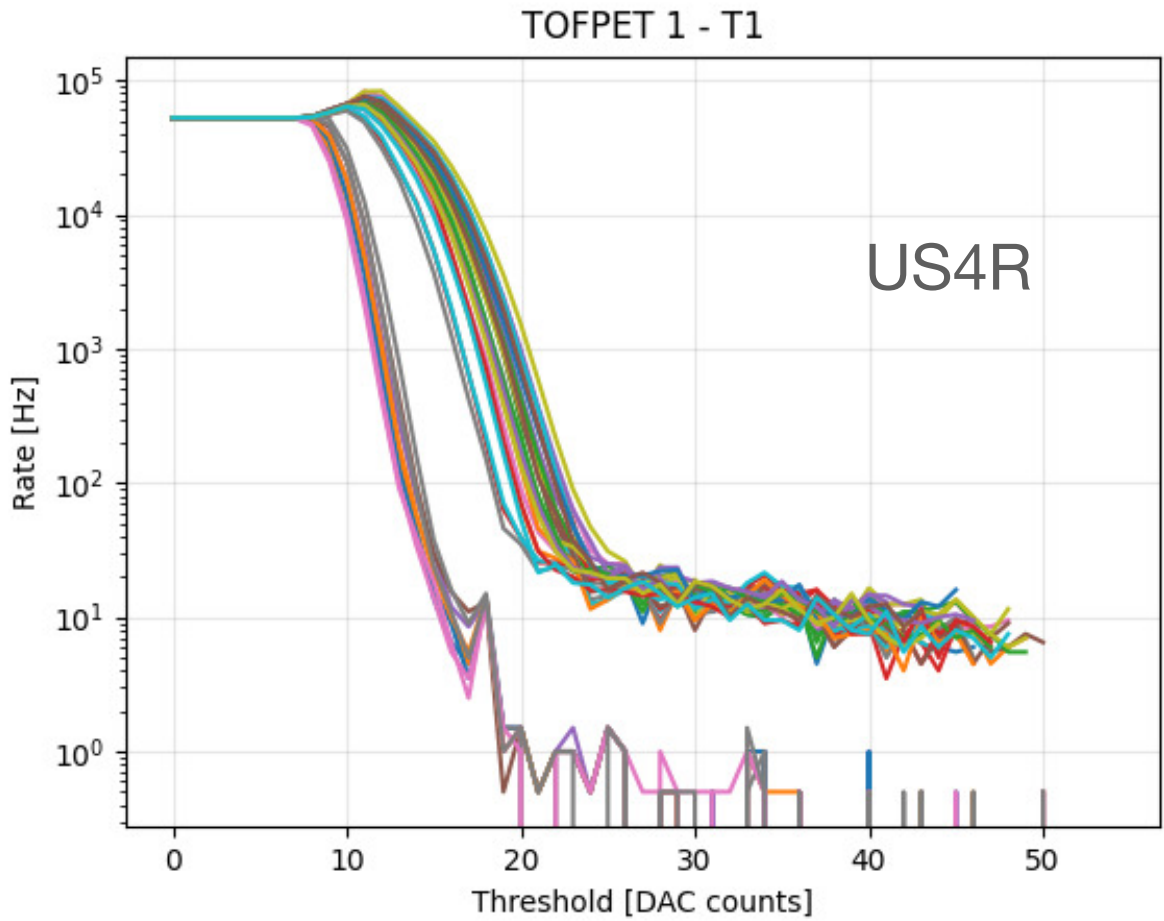


- noise level is OK: contrary to the June test beam, the calibration SW was always able to go through all stages (TDC, QDC, DCR)
- 7/10 PCBs fully functional, 3/10 PCBs only TOFPET chip 1
- 98.5 % SiPMs OK (2 dead and 8 noisy over 680)

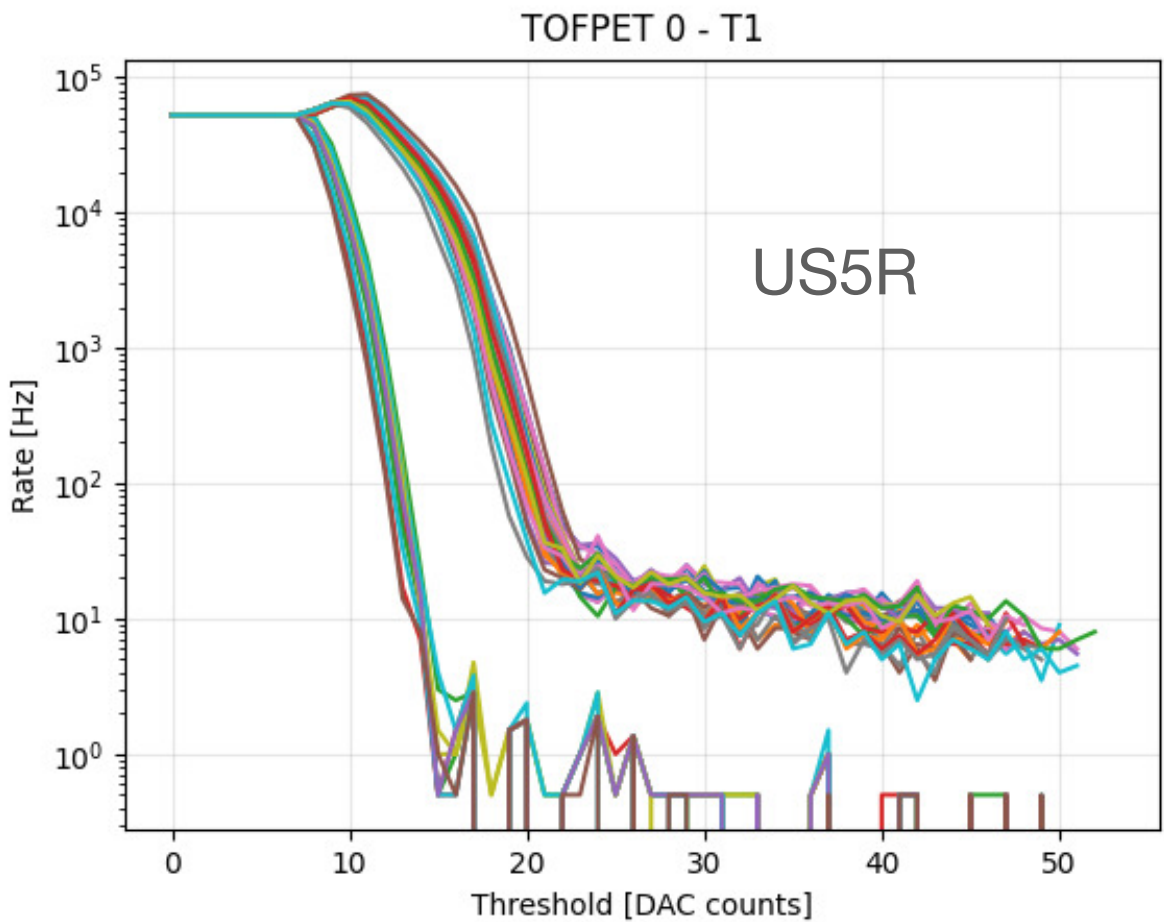
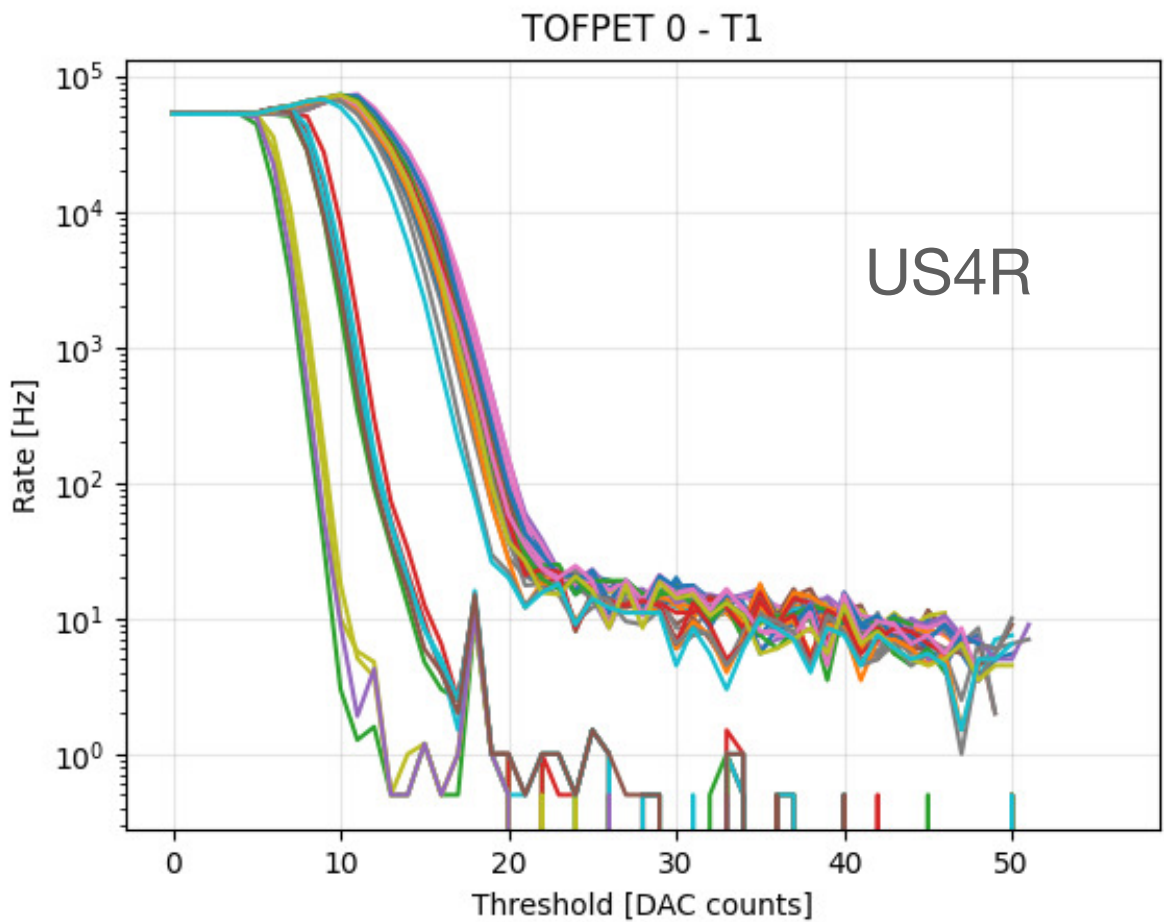
NO GEL SIDE					
μA	*US1L	*US2R	US3L	US4R	US5R
L SiPM	350	330	294	56	60
S SiPM	2.5	2	2	4	5



NO GEL SIDE					
μ A	*US1L	*US2R	US3L	US4R	US5R
L SiPM	350	330	294	56	60
S SiPM	2.5	2	2	4	5

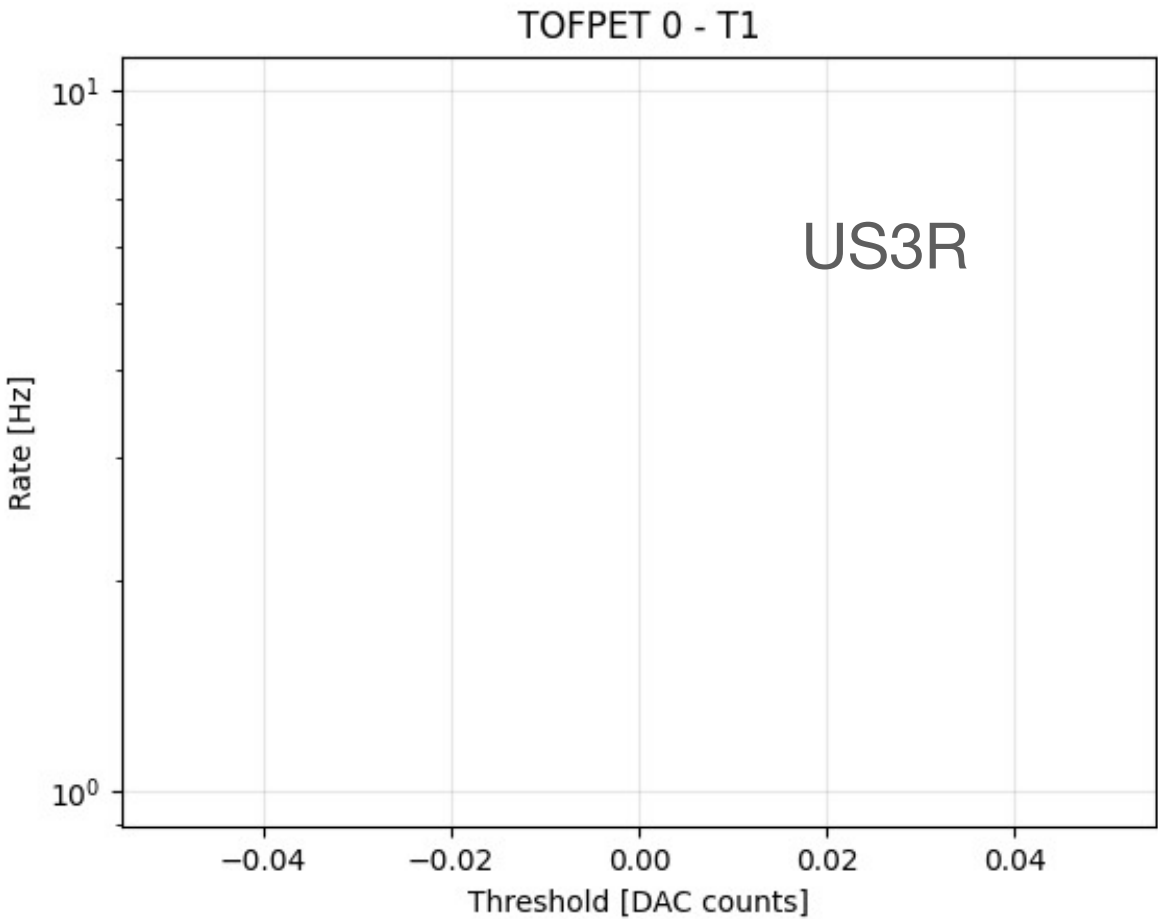
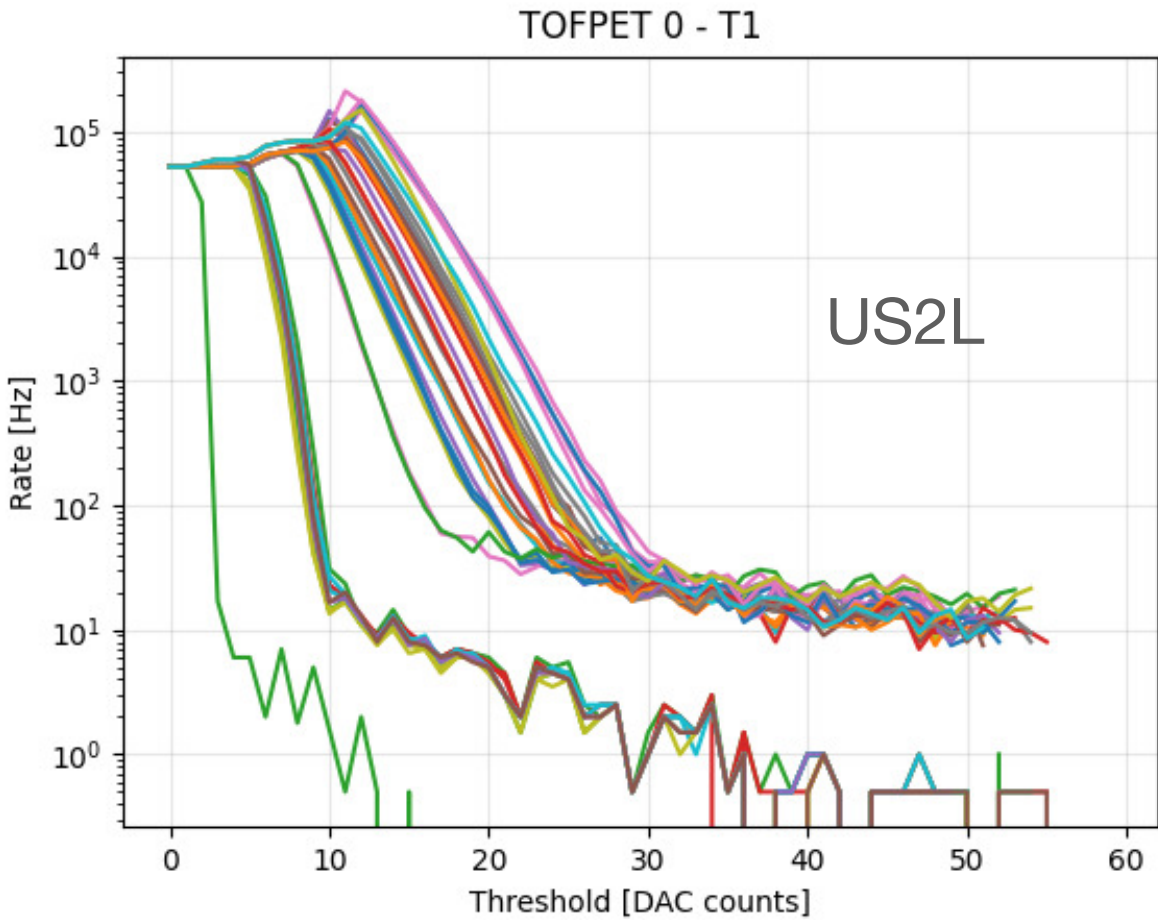
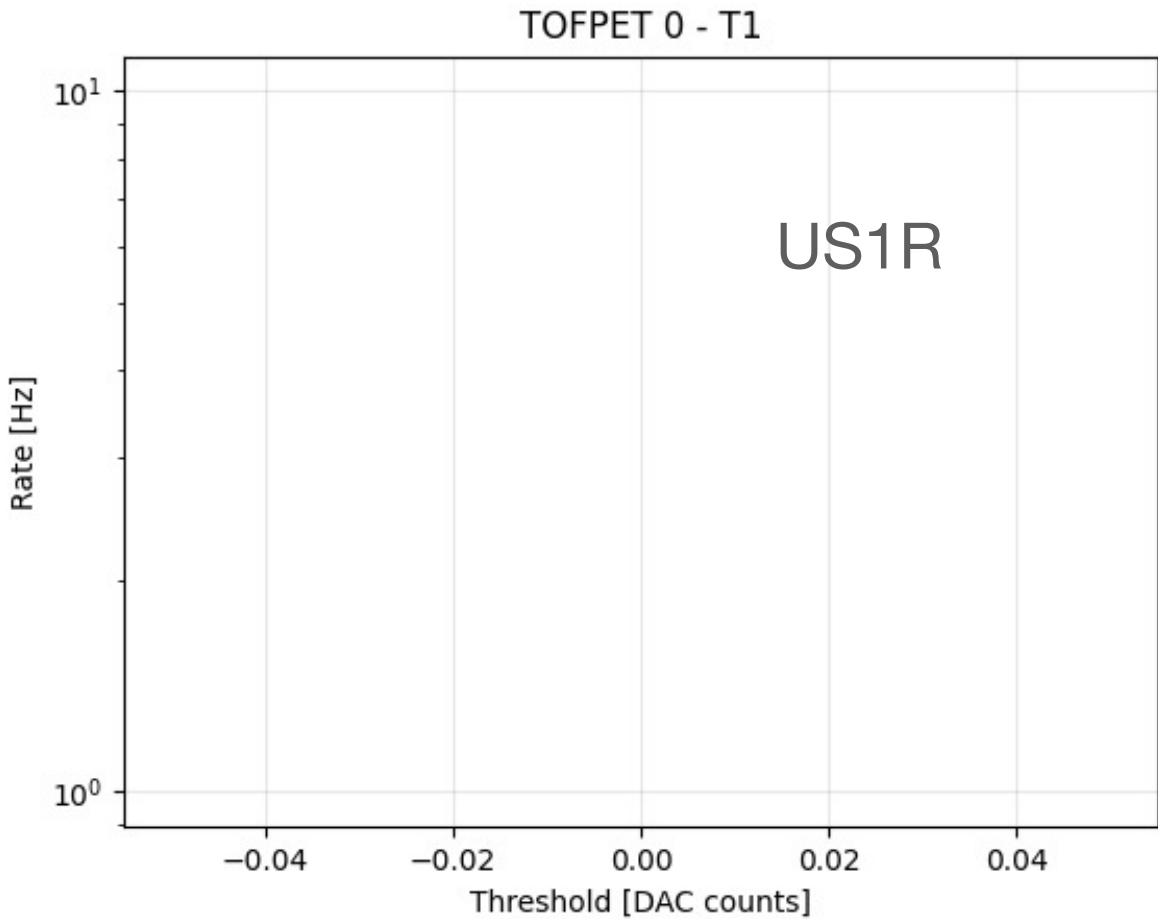
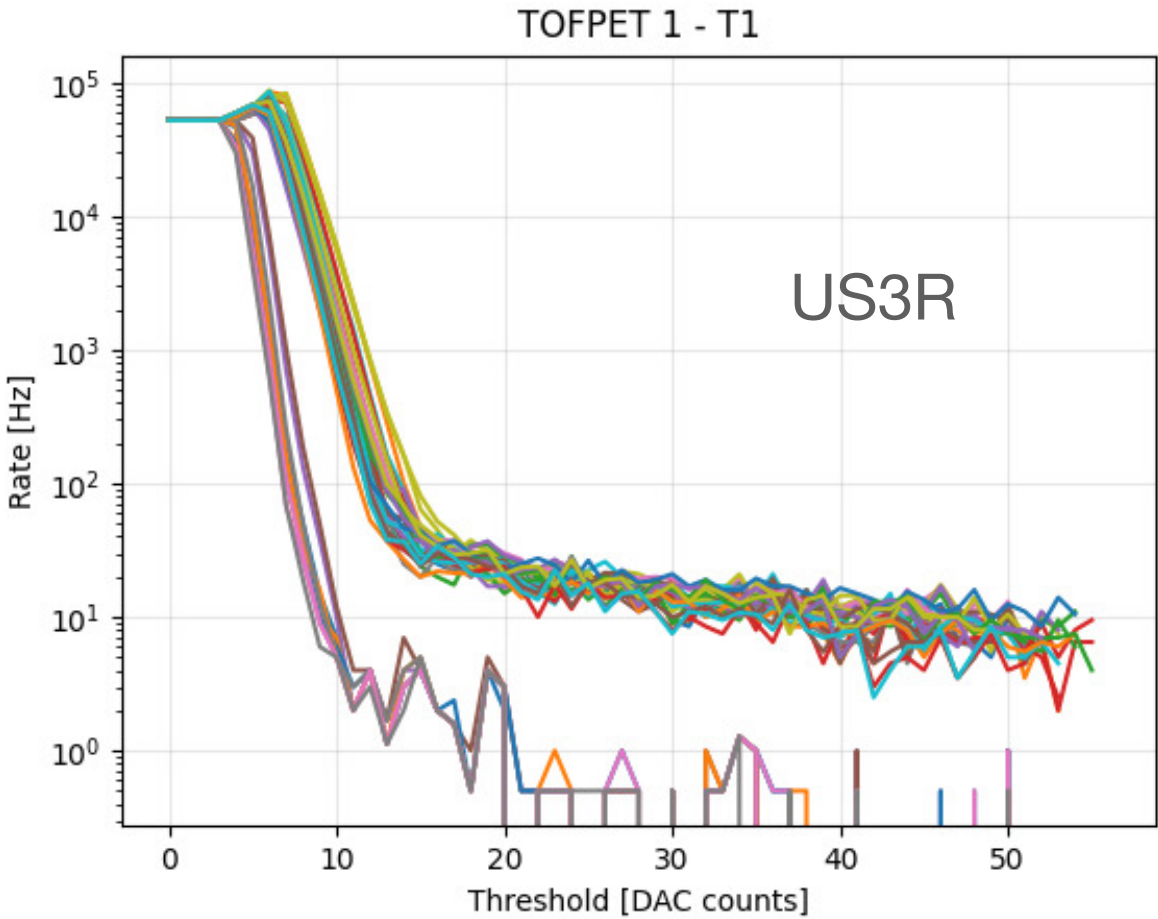
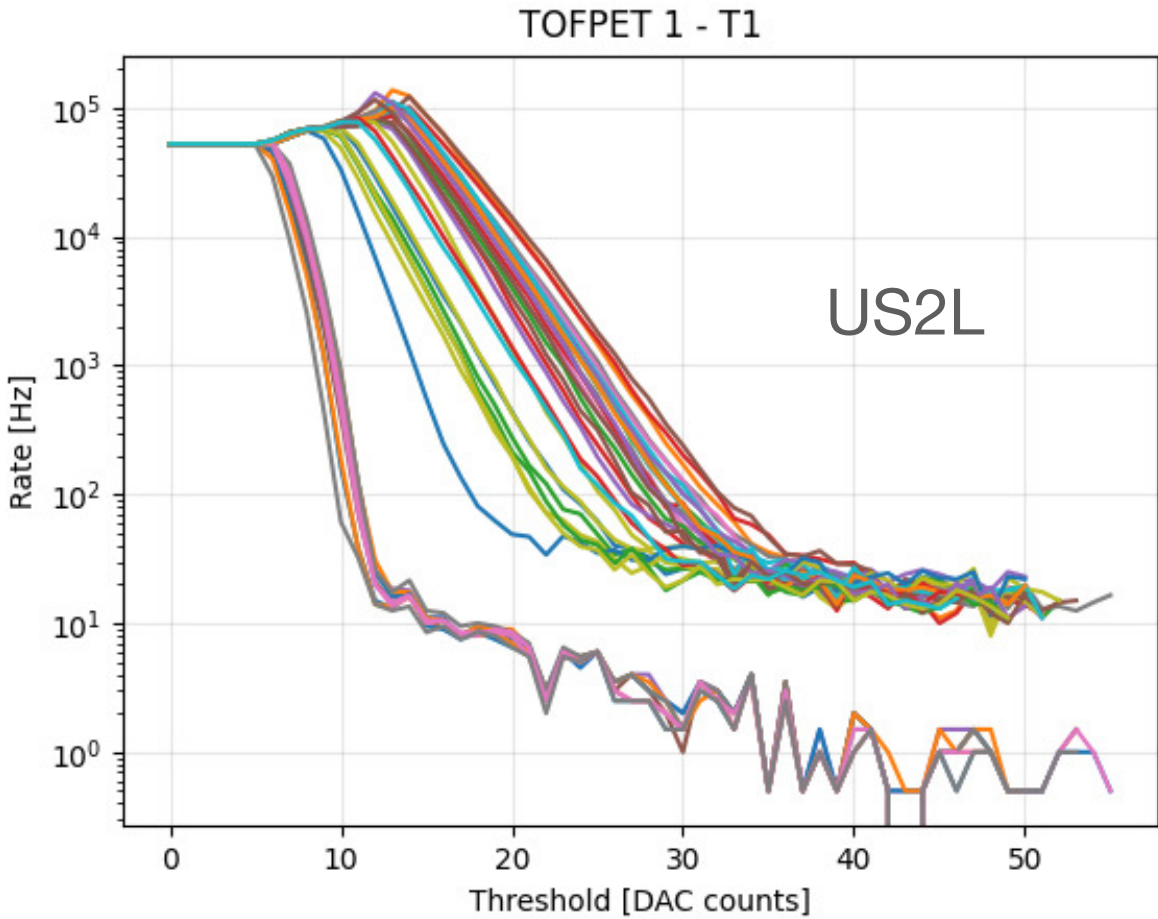
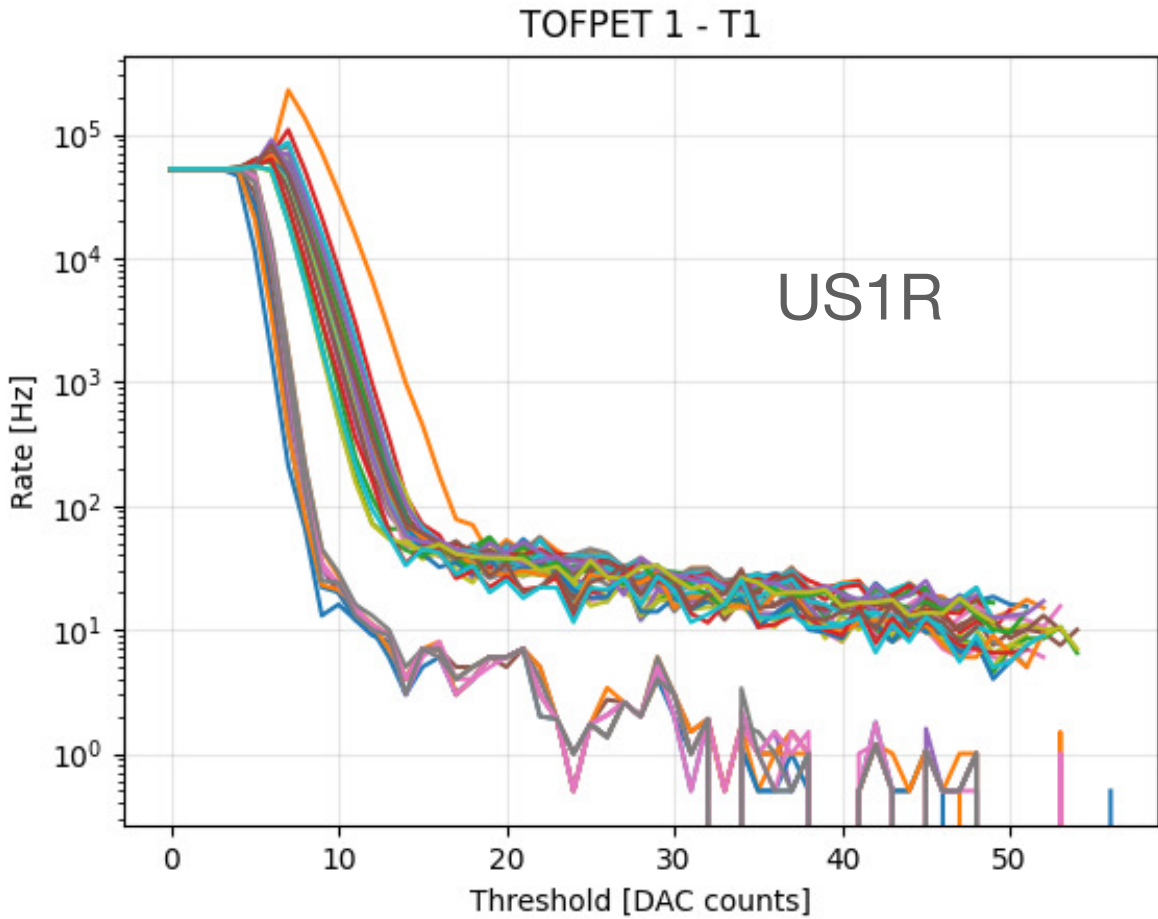


— TOFPET boards of US4R, chip 1 not working
board 142, replaced with 155

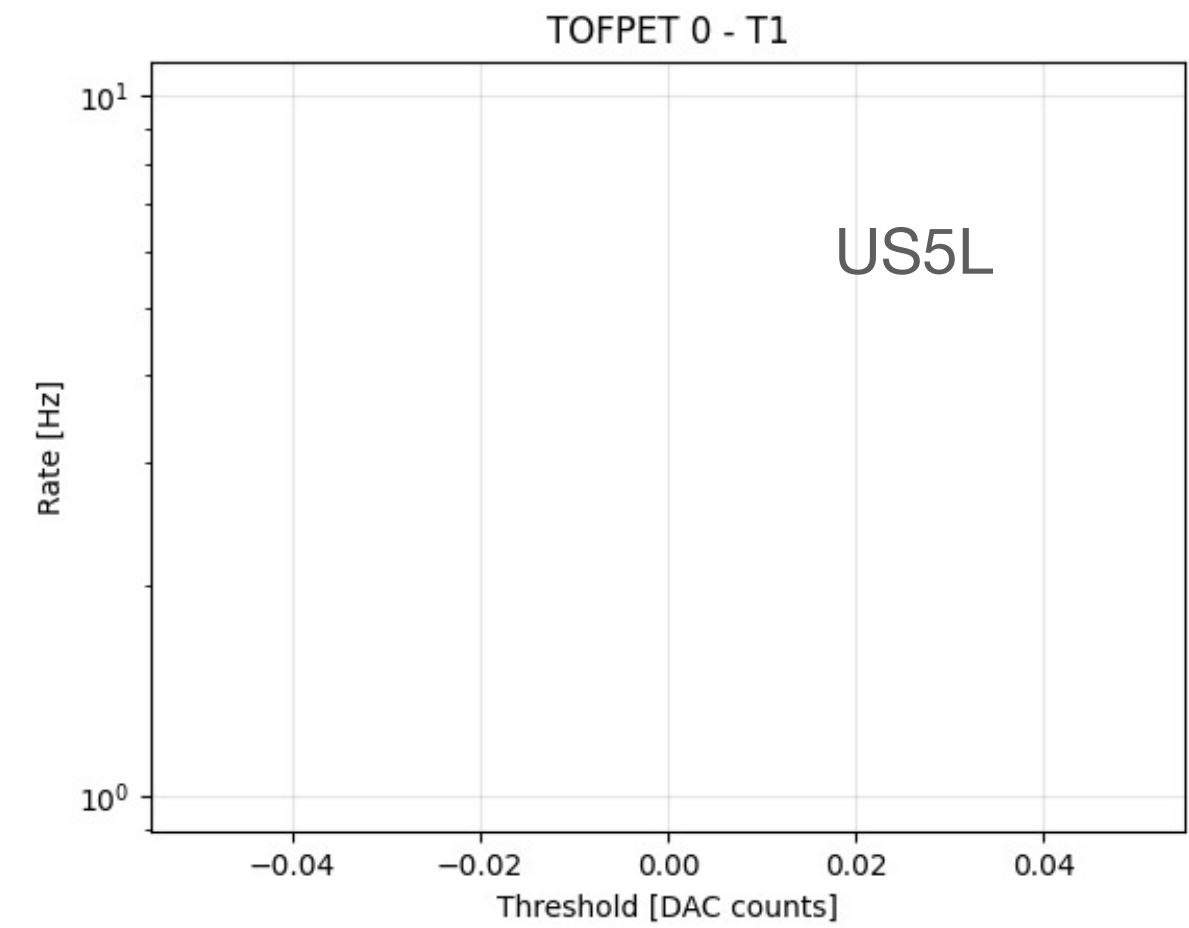
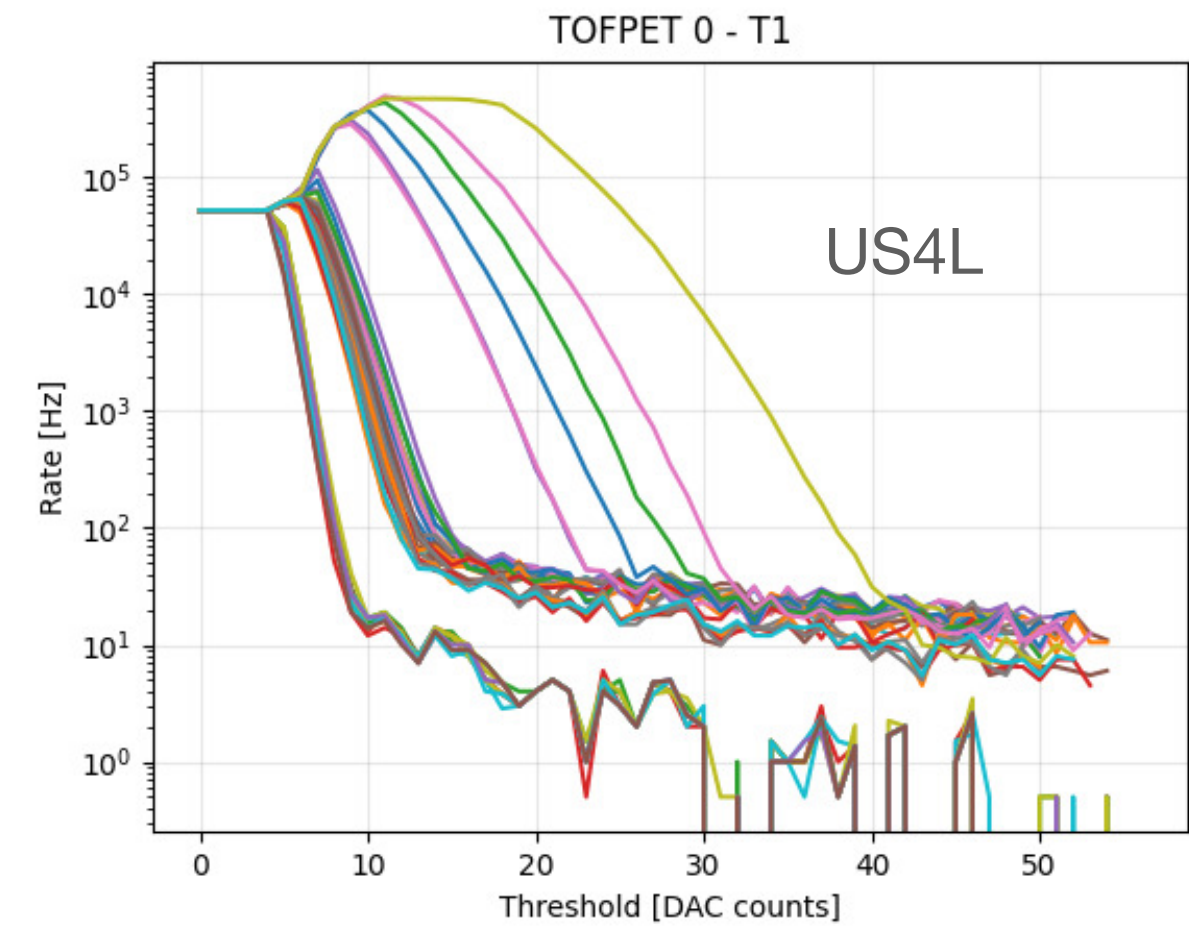
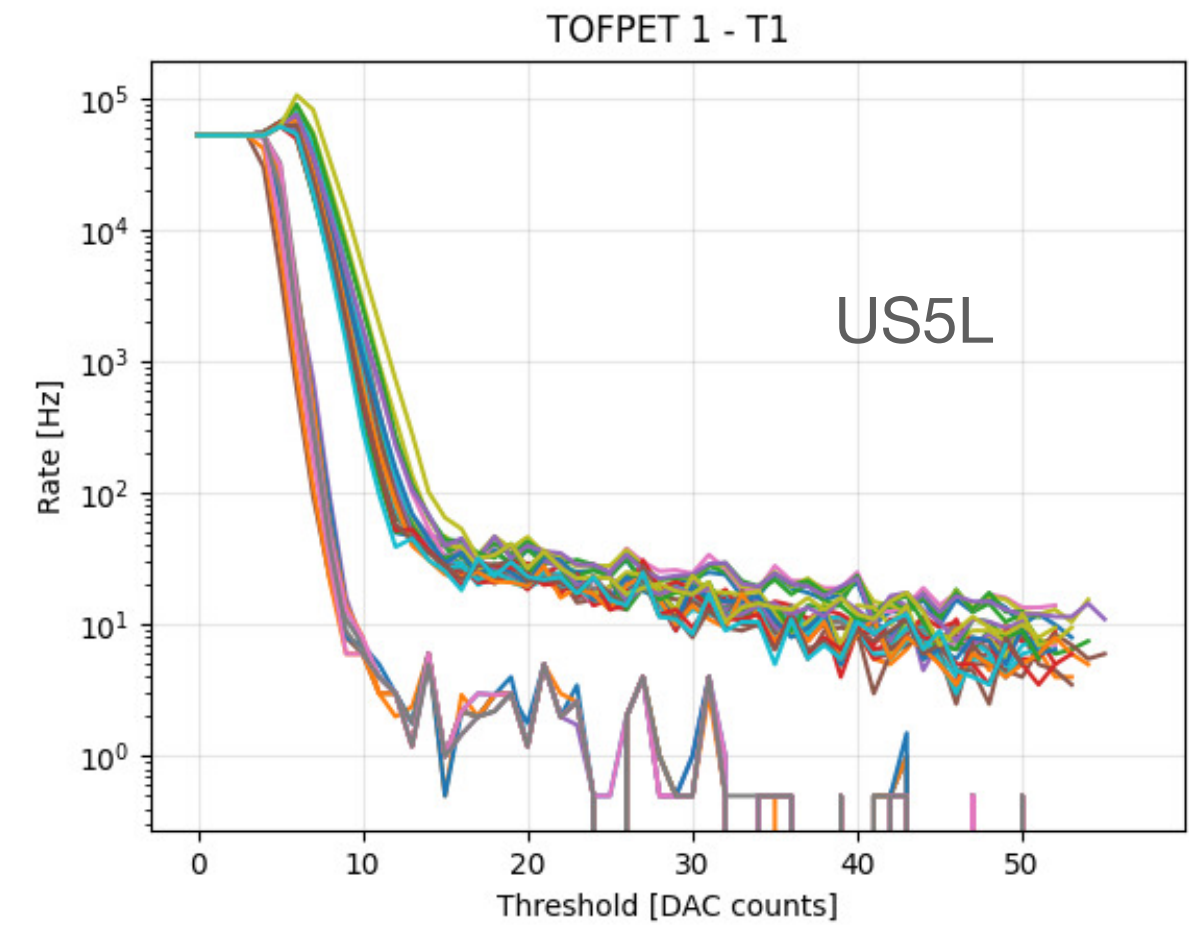
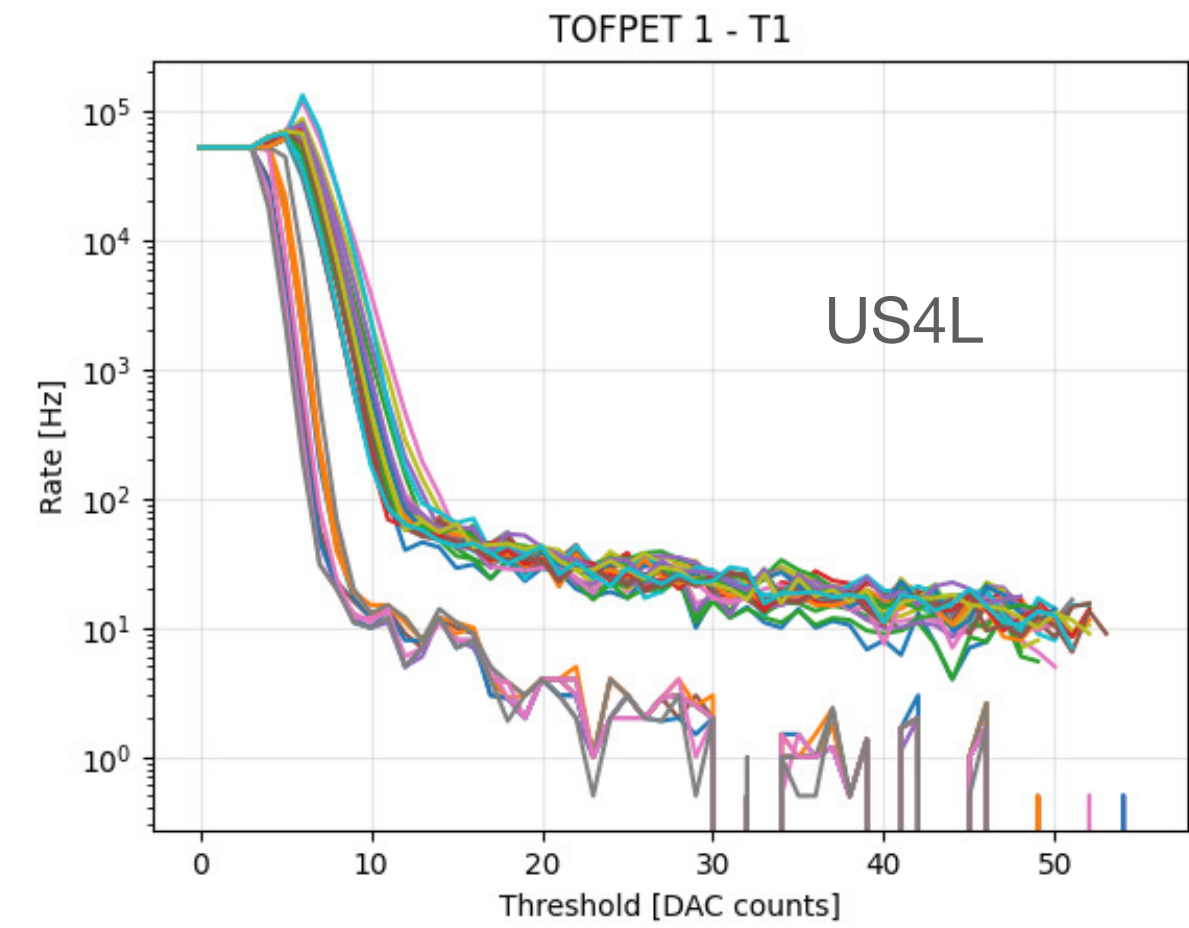


capacitors removed in a block of 4 small SiPMs

GEL SIDE					
μ A	*US1R	US2L	*US3R	US4L	*US5L
L SiPM	74	382	136	470	115
S SiPM	4	2	4	4.5	4



GEL SIDE					
μA	*US1R	US2L	*US3R	US4L	*US5L
L SiPM	74	382	136	470	115
S SiPM	4	2	4	4.5	4



WP	topic		Week							
			June 19	26	July 3	10	17	24	31	Aug 7
0	make plan									
1	electronic mod.s									
2	mechanics mod.s									
3	performance eval									
4	continue/postpone									
5	H6 test									
6	H8 install/disinstall									
7	Test Beam								parassitic	master

June 24

electronics
mechanics
DAQ/Online
decision

ISSUES:

- ✓ — PCB ground not isolated from aluminum frame (electronics and mechanics issues)
- ✓ — Lemo connections
- ✓ — replace interposers with flexes
- grounding (B29 system test + move earlier in H6)
- DS V noise, US4 R small SiPMs
- add beam counters, additional DAQ board

WARNING:

- people from July 17 to August 14
- shift instructions

OTHER TO DO:

- event builder settings
- map of noisy channels and mask them

WP 1,3 week June 26

PEOPLE:
1: Givi,Marco
3: Federico,Filippo,Simona

LOCATIONS:
work lab B29

day	work plan	who	status
28 Wed am	3: perform full test US1,3,5 gel side 1: investigate DSV, perform full test DS HR,HL,V	Marco+Federico (+Casimiro remote)	
pm	1: cable entire US1,2,3,4,5 system; check absorptions 3: start full US system test, calibration	Marco+Givi Federico	
29 Thur am	1: change trolley orientation with US chambers facing up 3: run US system on cosmics, check performance plots, check sstability	Marco+Givi Federico (+Filippo remote)	
pm	3: run US system on cosmics, check performance plots, check ssability	Federico+Marco	
30 Fri am	3:let the US system run, store data, analyze timing	Federico (+Simona remote)	
pm	3:let the US system run, store data, analyze timing	Federico (+Simona remote)	

