T1065, March 2015

Program: 120 GeV Photek 1, Photek 2, reproduce 9.6 ps first. Next 3 Xo W and 8, 16, 32 GeV electrons with Photek 1, Photek 2. Next Photonis XP85011 with 16 pixels scan for spacing and timing. 8 GeV electron beam, 3 Xo of W, no other material before XP85011, reference Photek 1,

March 23

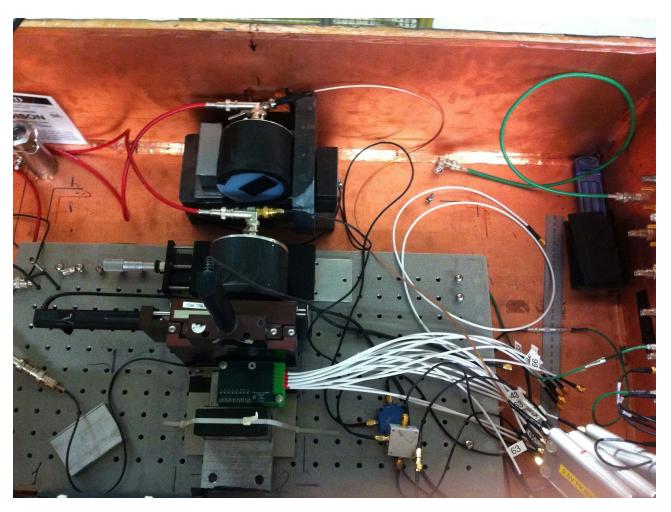
9:00, Sergey, Artur, AIR Setup installation.Channel mapping is below

2422: Ref, 43, 53, 63

2450: Ref, 44, 54, 64

2449: Ref, 45, 55, 65

2442: Ref, 46, 56, 66



For the first runs

2422: Ref, 43, 53, PH2

2450: Ref, 44, 54, 64

2449: Ref, 45, 55, 65

2442: Ref, 46, 56, CHER

For the first runs we will use the 2422 to get the time resolution around 10 psec, and then will remove the PH2, Artur.

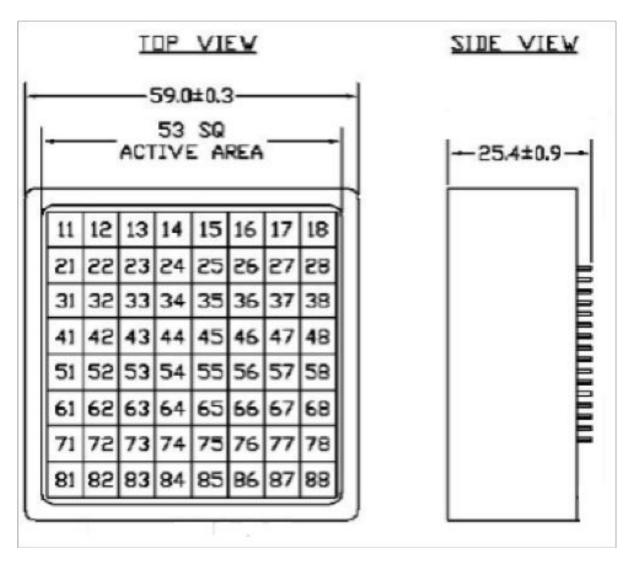
18:00, finished setup, asked "search and secure" team.

18:15, they did the search, and it is control access now. Lorenzo table upstream is still on the beam, it is about 1.7 Xo of Si.

18:25, we done for today, Sergey, Artur, AIR.

The dark box position: X=1298, Y=350 (initial position).





Photonis XP85011 and Photonis XP85012 (11 and 12 later) tested at SiDet with 405 nm Pilas laser head. We using now new PCB, made by Sergey. 16 chs readout separately.

Pixels numbers are:

33, 34, 35, 36

43, 44, 45, 46

53, 54, 55, 56

63, 64, 65, 66

Uniformity magnitude is in (...) Uniformity of 11

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33 (30), 34 (30), 35 (30), 36 (28)
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Uniformity of 12

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33 (30), 34 (32), 35 (30), 36 (29)
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18:37. AIR.

March 24,

6:30, asked 120 GeV proton.

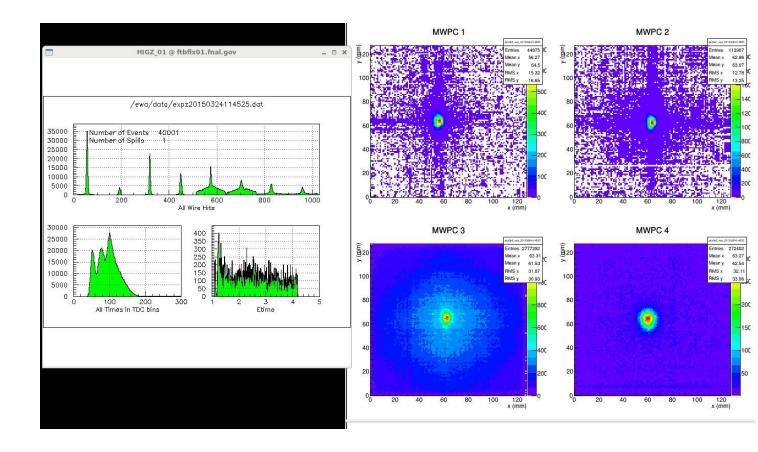
6:55, got 120 GeV proton.

AIR

7:00, started box scan to find max proton intensity.

started with proton 600,000/spill, found the beam, sigma ~3mm. asked intensity down by factor ~100.

HV Photek 1 = 4.6 kV, Photek 2 = 4.6, Photonis 11 = 2.3 = 2.3 kV.



Beam Center (undercarriage) **X=1288**, **Y=342** MT6SC1=6K, MTest=1.7E10

Y\X	1280	1283	1286	1289	1292
349			81/6K2	37/7K3	
346		36/6K2	209 /5K4	130 /5K7	46/7K5
343	14/5K2	109 /7K2	452 /6K3	732 /8K1	133 /10K3
340		45/6K6	566 /6K8	466 /6K7	89/5K9
337			288 /6K4	108 /5K6	

Numbers are our **T1** triggers / **MT6SC1** (official MCR counts)

11:30am

Changed readout configuration:

DRS 2422: Ref(PH1), S1, S2, PH2

S1/S2 scintillator signals are delayed by 20ns with respect to PH1/PH2

HV S1 \sim 1.4 kV, HV S2 \sim 1.5 kV. Taking a self-trigger RUN.

Photek 1 HV = 4.9 kV, Photek 2 HV = 4.8 kV, 11 = 2.3 kV

13:00. S1 ~6,000/spill, DRS4s/100/spill.

2422: Ref, S1, S2, PH2

2450: Ref, 44, 54, 64

2449: Ref, 45, 55, 65

2442: Ref, 46, 56, CHER

in the self-trigger S1, S2 hooked up to 2422 (instead of 43, 42).

 $TR \sim 20$ ps (for MIPs) between Ref (or P1) and PH2.

13:40.

2422: Ref, S1, nothing, PH2 (or P2)

2450: Ref, 44, 54, 64

2449: Ref, 45, 55, 65

2442: Ref, 46, 56, CHER

Installed 2Xo of W before Ref (or P1).

hooked up S2 to discr, discr to TTL, TTL to 2422.

Trigger (TTL) of 2422 is working now. (We have not seen 2422

working with TTL before). P1 and P2 HV = 5 kV

TR ~20 ps between P1 and P2 (for MIPs)

New run. P1 and P2 HV = 4.8 kV.

14:30 Readout Channel Assignment Now On:

					Тор			
	11	21	31	41	51	61	71	81
East	12	22	32	42	52	62	72	82
DRS-2422 Ref, S1,Cher,Ph2	13	23	33	43	53	63	73	83
DRS-2450 Ref, 44,54,64	14	24	34	44	54	64	74	84
DRS-2449 Ref, 45, 55, 65	15	25	35	45	55	65	75	85
DRS-2442 Ref, 46, 56, 66	16	26	36	46	56	66	76	86
	17	27	37	47	57	67	77	87
	18	28	38	48	58	68	78	88

Bottom

View of XP85011/12 mapping in the beam direction

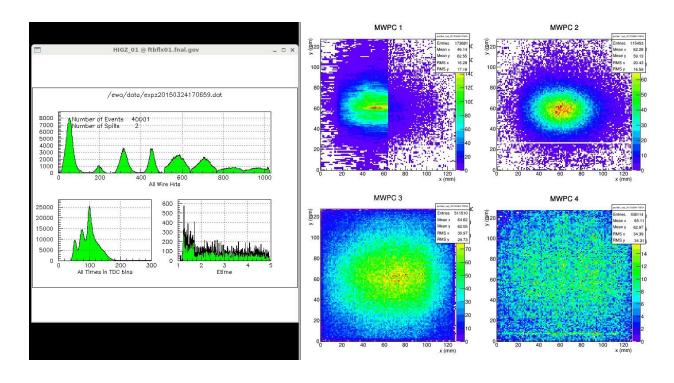
15:10

asked 8 GeV electron beam with intensity ~6,000/spill.

Artur asked increase intensity up to ~30,000/spill

Run 005: electron 8 GeV, HV on Photeks 4.6 kV.

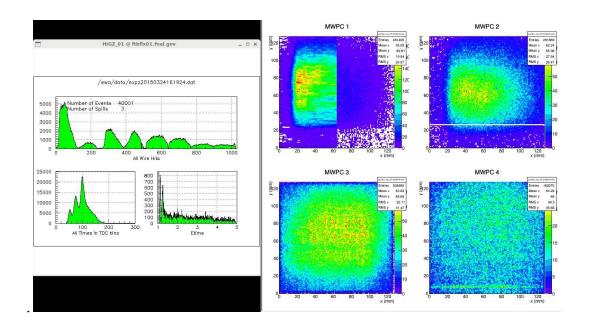
Channels, mapping is in the figure above. We get around 20psec with Photeks, old gaus fit no Splines. Taken with DRS oscilloscope.



16:05

asked for 4 GeV electron beam.

Run 006: electron **4 GeV**, HV on Photeks 4.6 kV. Channels, mapping is in the figure above. We get around 20psec with Photeks, old gaus fit no Splines. Takenwith DRS oscilloscope



17:00 Readout Channel Assignment Now On:

			Тор					
81	71	61	51	41	31	21	11	
82	72	62	52	42	32	22	12	East
83	73	63	53	43	33	23	13	DRS-2422 Ref, 43, 53, 63
84	74	64	54	44	34	24	14	DRS-2450 Ref, 44,54,64
85	75	65	55	45	35	25	15	DRS-2449 Ref, 45, 55, 65
86	76	66	56	46	36	26	16	DRS-2442 Ref, 46, 56, Cher
87	77	67	57	47	37	27	17	
88	78	68	58	48	38	28	18	

Bottom

View of XP85011/12 mapping in the beam direction

Tried the program to read all 4 DRS. Program works, with 65ns delay. However, the signals are all close to left edge of the DRS window. Tried to move the delay to 55ns, but the program got stuck. Moved the Delay to 85ns, but the program got stuck, need access to unplug/plug back in the USB hub. Leaving for today, will continue tomorrow. AA.

March 25

6:00

Lorenzo asked for ~1 hour.

6:30

Ray trying to fix X-Y moving stage problem.

7:15

Lorenzo is done.

7:30

Ray fixed X-Y. (may be updated later).

The procedure to operate the X-Y.

- 1. go to rdp
- 2. connect with ncdflap45.dhcp.fnal.gov
- 3. use as username in KRDC fermi\ppd-cap-ncdflap45
- 4. PWD: Ftbf user00

after that should get the X-Y main window in: rdp://fermi%5Cppd-cap-ncdflap45.dhcp.fnal.gov

Note: dont hit ENTER, when operating with the X-Y. To move X-Y hit right button in Jog instead. AIR.

8:30

controlled access completed (Sergey, AIR)

- 1. X-Y new position.
- 2. 3Xo of W in front of 11. Nothing else before 11. Lorenzo put down his table upstream of our setup.
- 3. Sergey hooked up the remote power supply for USB HUB. Asked 8 GeV electron beam. HV: S1, S2 = 1.4 kV, 11 = 2.4 kV, P1 = 4.7, P2 not used.

It is NO BEAM. Main injector and Linac problems.

9:00

It is NO BEAM. Water leak in klistron. Not good at all. I left to SiDet, Sergey is going to HR.

12:00

Beam is back.

Asked 8 GeV electron beam. Intensity 60, 000/spill. HV: S1, S2 = 1.4 kV, 11 = 2.4 kV, P1 = 4.7, P2 not used.

13:07

Moved PMT X/Y stage **6mm Up** (0/+6 with respect to the ORIGINAL position, even though it is being reset to 0/0 every time the program is restarted)

Run 7: 200 events with 8 GeV electrons, DRS command line program, delay is set at 55. Goal is to see where the beam is hitting. Channel mapping is per DRS as below

b1: 2449

b2: 2450

b3: 2422

b4: 2442

Run 8: 2000 events same setting as Run 7

Moved 6mm up, goal is to hit pixel 54.

Run 9: 400 events. We find signals in pixels 63, 53, 43, 64, and 65, the rest is empty. We move XY table by 6mm west to position beam on pixel 54.

Run 10: 400 events. We still find signals in pixels 63, 53, 43, 64, and 65, the rest is empty. The goal is to hit 54. We move XY table by 6mm west to position beam on pixel 54.

Run 11: 400 events. We still find signals in pixels 63, 53, 43, 64, and 65, the rest is empty. The goal was to hit 54, but we hit the limit of the XY table controller. Decision is to go in and replace the 011 with 012 PMT. 012 has the PC ON/OFF feature.

14:30 Access to replace the MCP-PMT, and visually align.

Post-access summary: turned out the XY table was moving in the wrong direction. The MCP was changed, now we have the ON/OFF MCP on the beam.

14:50

Moved PMT X/Y stage **18mm West** (+6/+12 with respect to the ORIGINAL position)

West corresponds to the **right arrow** in software **East** corresponds to the **left arrow**

15:00

Moved PMT X/Y stage **6mm West** (+12/+12 with respect to the ORIGINAL position)

Trigger PMT1 and PMT2 at 1400V Photonis XP85012 (PhC ON) at 2300V Photek (reference) at 4700V

Run 13: In Run we were hitting pixels 63, 64, 65. Need to move beam more to the right. Still see the same pixels lit up, but not 54... Decide to move up 6mm to see if there is any change, but hit the limit of XY stage, moved only 3mm

Run 14:

16:00

Trigger PMT1 and PMT2 at 1400V Photonis XP85012 (PhC ON) at 2200V Photek (reference) at OFF

PMT X/Y stage (+12/+15 with respect to the ORIGINAL position), **3Xo** L **EAD**

			Top					
81	71	61	51	41	31	21	11	
82	72	62	52	42	32	22	12	East
83	73	63	53	43	33	23	13	DRS-2422 33, 43, 53, 63
84	74	64	54	44	34	24	14	DRS-2450 34, 44,54,64
85	75	65	55	45	35	25	15	DRS-2449 35, 45, 55, 65
86	76	66	56	46	36	26	16	DRS-2442 36, 46, 56, 66
87	77	67	57	47	37	27	17	
88	78	68	58	48	38	28	18	

Bottom

View of XP85012 mapping in the beam direction

During this access we removed all Photek reference connectors from DRSs, and also removed Cherenkov. Now all channels from Photonis are connected to 4 DRS boards. We see signals from all channels on periphery, but no signals from pixels 45, 55, 44, 54. Decision is to go into access and swap channels 64 and 54, 44 and 34, 65 and 55, 45 and 35. The goal will be to see if this is the fault of DRS boards or not.

16:30 Readout Channel Assignment Now On:

			Тор					
81	71	61	51	41	31	21	11	
82	72	62	52	42	32	22	12	East
83	73	63	53	43	33	23	13	DRS-2422 Ref, 43, 53, 63
84	74	64	54	44	34	24	14	DRS-2442 Ref, 44, 54, 64
85	75	65	55	45	35	25	15	DRS-2450 Ref, n/c, n/c, 55
86	76	66	56	46	36	26	16	DRS-2449 Ref, n/c, n/c, Cher
87	77	67	57	47	37	27	17	
88	78	68	58	48	38	28	18	

Bottom

View of XP85012 mapping in the beam direction

Trigger PMT1 and PMT2 at 1400V Photonis XP85012 (PhC ON) at 2200V Photek (reference) at 4700V

Run 16:2000 electron 8 GeV run. with configuration above.

~ 18:30, the run completed.

March 26,

5:30

Lorenzo running 120 GeV, his table is up.

Heejong will bring one DRS4, v.4, I also will bring one. As he said we can try DAQ with 2 DRS4, v.5 and 2 DRS4, v.4. So, we can try 2 DRS4, v.5 (all channels) working and 2 DRS4, v.4 with also all channels working. AIR.

7:30

asked 8 GeV negative beam (with electrons), 60,000/spill. S1, S2 HV = 1.4 kV.

7:45

S1 counting rate per spill ~300, normal.

8:50

Trigger PMT1 and PMT2 at 1400V

Photonis XP85011 at 2300V

Photek (reference) at 4700V

X/Y stage is 12/12 absolute (after homing to 0/0 with its controller)

We have replaced DRS-2450 for DRS-2216 with all working channels

XP85012 with ON/OFF Photo Cathode was replaced with XP85011

because of a huge cross-talk

Tungsten absorber 3Xo

Readout Channel Mapping was changed:

					Top			
	11	21	31	41	51	61	71	81
East	12	22	32	42	52	62	72	82
DRS-2422 Ref, 43, 53, 63	13	23	33	43	53	63	73	83
DRS-2442 Ref, 44, 54, 64	14	24	34	44	54	64	74	84
DRS-2216 Ref, 45, 55, 65	15	25	35	45	55	65	75	85
DRS-2449 Ref, n/c, n/c, Cher	16	26	36	46	56	66	76	86
	17	27	37	47	57	67	77	87
	18	28	38	48	58	68	78	88

Bottom

View of XP85011 mapping in the beam direction

9:40

X/Y moved to 12/18 (6mm up)

Run 17: 100 events with 8 GeV electron to find the pixel 54. From amplitudes it seems that the beam is hitting mostly pixel 53 and 54, so we move the XY a bit more up.

9:56

X/Y moved to 12/24 (6mm up)

10:04

X/Y moved to 12/21 (3mm down)

Run 18: 100 events with 8 GeV electron to find the pixel 54. From amplitudes it seems that the beam is hitting mostly pixel 54 and 55, so we move the XY a 3mm down.

10:11

X/Y moved to 12/22 (1mm up)

Run 19: 100 events with 8 GeV electron to find the pixel 54. From amplitudes it seems that the beam is hitting mostly pixel 54, with small spillover to 53,so we move the XY a 1mm up.

10:11 Scanning for positional/time resolution at 8Gev electrons

Run 20: 100 events with 8 GeV electron to find the pixel 54. From amplitudes it seems that the beam is hitting mostly pixel 54, we are happy.

Run 21: 2000 events with beam centered on pixel 54. We will do a scan up and left in 1mm steps, and down and right in 2mm steps. The plan is to take 2000 events per step. We get about 100 psec on 54 vs its reference, 64 vs its reference, and 46 vs its reference.

Run 22: moved the table 1 mm down. 2000 events 8 GeV electron beam. We get resolutions similar to Run 21. We decide to turn off everything and redo the calibrations.

11:06

Photonis XP85011 and Photek Off (0V) for DRS calibration

11:18

Photonis XP85011 and Photek are ON at 2300V/4700V

Controlled access: DRS-2442 disconnected from input cables and calibrated, then cabled back.

Run 23: moved the table 1 mm up to starting position, with the recalibrated 2442. The goal is to see if we get better time resolution on pixel 54 vs its own reference. **SigmaDT(1,3)=49.9** psec,

SigmaDT(5,7)=90 psec, SigmaDT(9, 11) = 53 psec

Run 24: moved the table to Y=21mm, SigmaDT(1,3)=51 psec,

SigmaDT(5,7)=76 psec, SigmaDT(9, 11) = 48 psec

Run 25: moved the table to Y=20mm, SigmaDT(1,3)=51 psec,

SigmaDT(5,7)=85 psec, SigmaDT(9, 11) = 72 psec

Run 26: moved the table to Y=19mm, SigmaDT(1,3)=51 psec,

SigmaDT(5,7)=78 psec, SigmaDT(9, 11) = 165 psec. DT(9,11) gets around 50 psec if cut on ch11Amp>0.1

Run 27: moved the table to Y=18mm, SigmaDT(1,3)=51 psec, SigmaDT(5,7)=88 psec, SigmaDT(9, 11) = 198 psec, DT(9,11) gets around 60 psec if cut on ch11Amp>0.1, DT(9,11) gets around 50 psec if cut on ch11Amp>0.1

Run 28: moved the table to Y=17mm, SigmaDT(1,3)=57 psec, SigmaDT(5,7)=78 psec, channel 11 Amp is too small, wiht a constrained fit we get around 58 psec

Run 29: moved the table to Y=16mm, SigmaDT(1,3)=52 psec, SigmaDT(5,7)=78 psec, channel 11 Amp is too small, with a constrained fit we get around 58 psec

X/Y Scan Tables

Y mm	16 down	17	18	19	20	21	22	24	26	27 up
Run	29, 36	28, 35	27, 34	26, 33	25, 32	22, 24, 31	21, 23, 30, 46	37	38	39

Vertical scan at X=12mm (up and down - in terms of X/Y table position)

X mm	6 west	7	8	9	10	11	12	14	16	18 east
Run	42		41		40		21, 23, 30, 46	43	44	45

Horizontal scan at Y=22mm (west and east - in terms of X/Y table position)

			Тор					
81	71	61	51	41	31	21	11	
82	72	62	52	42	32	22	12	East
83	73	63	53	43	33	23	13	DRS-2422 Ref, 43, 53, 63
84	74	64	54	44	34	24	14	DRS-2442 Ref, 44, 54, 64
85	75	65	55	45	35	25	15	DRS-2216 Ref, 45, 55, 65
86	76	66	56	46	36	26	16	DRS-2449 Ref, n/c, n/c, Cher
87	77	67	57	47	37	27	17	
88	78	68	58	48	38	28	18	

Bottom

14:10 Lowering XP85011 voltage to get rid of saturated events

Trigger PMT1 and PMT2 at 1400V

Photonis XP85011 at 2200V

Photek (reference) at 4700V

Scanning X/Y again :) starting with x=12, y=22 mm

Run 30: moved the table to x=12, y=22 mm, SigmaDT(1,3)=47 psec, SigmaDT(5,7)=83 psec, SigmaDT(9, 11) = 43 psec Run 31 - 14:34 - moved the table to x=12, y=21 mm, SigmaDT(1,3)=48 psec, SigmaDT(5,7)=77 psec, SigmaDT(9, 11) = 46 psec

Run 32 - 15:04 - moved the table to x=12, y=20 mm (2000 events)

Run 33 - 15:26 - moved the table to x=12, y=19 mm

Run 34 - 15:46 - moved the table to x=12, y=18 mm

Run 35 - 16:05 - moved the table to x=12, y=17 mm

Run 36 - 16:29 - moved the table to x=12, y=16 mm

Run 37 - 17:59 - moved the table to x=12, y=24 mm

Run 38 - 17:20 - moved the table to x=12, y=26 mm

Run 39 - 17:47 - moved the table to x=12, y=27 mm

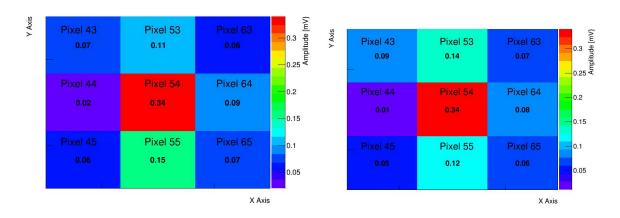
Run 40 - 18:06 - moved the table to x=10, y=22 mm

Run 41 - 18:27 - moved the table to x=8, y=22 mm

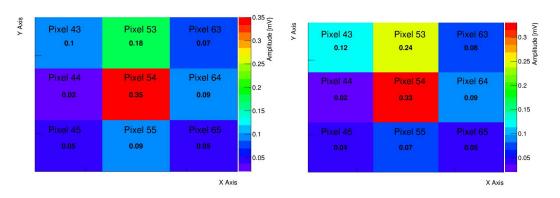
Run 42 - 18:45 - moved the table to x=6, y=22 mm

19:00PM FINISHED for the day. Amplitude scan plots below.

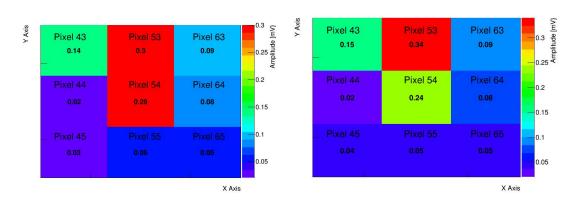
Run 30 and 31: Mean amplitudes with Cherenkov



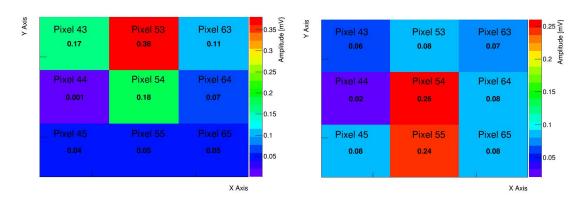
Run 32 and 33: Mean amplitudes with Cherenkov



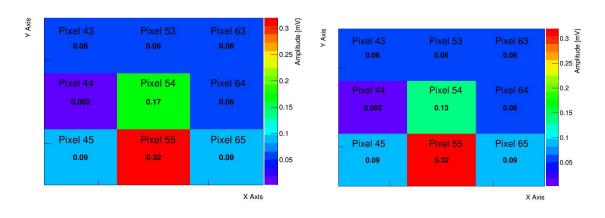
Run 34 and 35: Mean amplitudes with Cherenkov



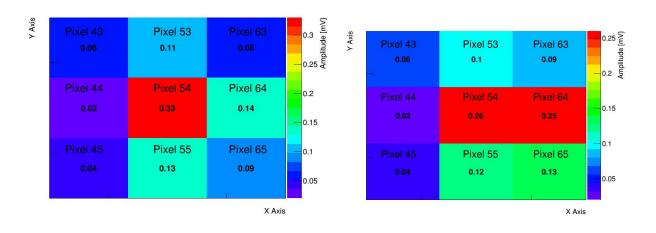
Run 36 and 37: Mean amplitudes with Cherenkov



Run 38 and 39: Mean amplitudes with Cherenkov



Run 40 and 41: Mean amplitudes with Cherenkov



March 27

6:45 - asked 8 GeV, intensity 60,000/spill, under the intensity S1 counts ~250/spill. HV: XP85011=2.2kV, P1=4.7kV

Run 43 - 8:18 - moved the table to x=14, y=22 mm (2000 events)

Run 44 - 8:38 - moved the table to x=16, y=22 mm

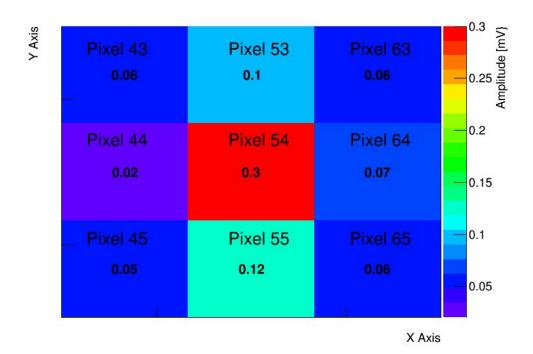
Run 45 - 8:55 - moved the table to x=18, y=22 mm

Run 46 - 9:13 - moved the table to x=12, y=22 mm (central pixel, 5000 events)

Run 47 - 10:00 - 4 GeV electrons, table at x=12, y=22 mm (central pixel, 2000 events)

Run 48 - 10:00 - 4 GeV electrons, table at x=12, y=22 mm (central pixel, 2000 events)

Run 47 and 48: Mean amplitudes with Cherenkov



11:00 Access to install the Argonne MCP-PMT

DAQ Channel Assignment (as viewed along the beam):

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	Strip 1		
	Strip 2		
	Strip 3		
	Strip 4		
	Strip 5		
S6L	Strip 6	S6R	DRS-2422 Ref, S6L, S6R, n/c
S7L	Strip 7	S7R	DRS-2442 Ref, S7L, S7R, n/c
S8L	Strip 8	S8R	DRS-2216 Ref, S8L, S8R, n/c
	Strip 9		DRS-2449 Ref, n/c, n/c, Cherenkov

Bottom

When X/Y stage is at 12/6mm the beam should be in strip 6, $\frac{1}{4}$ from the left side

Trigger PMT1 and PMT2 at 1400V

Argonne MCP PMT at 2300V

Photek (reference) at 4700V

X/Y Scan Table for the Argonne MCP PMT / 8 Gev electrons

Y	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Run	52	54 55	56	57	58	59	49 60	61						50							51

Vertical scan at X=12mm (up and down - in terms of X/Y table position)

Y=4mm is Strip 7 center

Y=11mm is Strop 8 center

Run 49 - 12:00 - moved the table to x=12, y=6 mm (1000 events)

Run 50 - 12:18 - moved the table to x=12, y=13 mm (2000 events)

Run 51 - 12:40 - moved the table to x=12, y=20 mm (2000 events)

Run 52* - 13:08 - moved the table to x=12, y=3 mm (2000 events)

HV for Argonne MCP tripped, etc.

Argonne MCP PMT at 2400V (5.6uA)

16 Gev electrons / 5Xo Tungsten

Run 53* - 13:47 - moved the table to x=12, y=1 mm (200 events)

HV on MCP tripped

Run 54 - 13:52 - moved the table to x=12, y=1 mm (200 events)

Argonne MCP PMT at 2300V

Run 55 - 13:58 - moved the table to x=12, y=1 mm (2000 events)

Run 56 - 14:15 - moved the table to x=12, y=2 mm (2000 events)

14:35, Lorenzo asked few minutes for his access.

Run 57 - 14:50 - moved the table to x=12, y=3 mm (2000 events)

Run 58 - 15:12 - moved the table to x=12, y=4 mm (2000 events)

Run 59 - 15:35 - moved the table to x=12, y=5 mm (2000 events)

Run 60 - 15:51 - moved the table to x=12, y=6 mm (2000 events)

Run 61 - 16:11 - moved the table to x=12, y=7 mm (2000 events)

Run 62 - 16:35 - moved the table to x=2 mm, y=4 mm (2000 events)

Run 63 - 16:55 - moved the table to x=22 mm, y=4 mm (2000 events)

Run 64 - 17:15 - moved the table to x=12 mm, y=4 mm (2000 events)

X Scan Table for the Argonne MCP PMT / 8 Gev electrons

X mm	2	12	22
Run	62	58	63

Horizontal scan at Y=4mm

Preliminary for the LAPPD TR along the Strip Line \sim 27 ps. The LAPD propagation speed 0.66c (prior measurements), so the space resolution along the line, sigma \sim 4.5 mm

A NIMA paper on Argonne 6cm x 6cm detector

http://www.sciencedirect.com/science/article/pii/S0168900214012078

18:00 Access to install a different XP85011 MCP PMT

Trigger PMT1 and PMT2 at 1400V Photonis XP85011 at 2300V Photek (reference) at 4700V

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	11	21	31	41	51	61	71	81
East	12	22	32	42	52	62	72	82
DRS-2422 Ref, 43, 53, 63	13	23	33	43	53	63	73	83
DRS-2442 Ref, 44, 54 , 64	14	24	34	44	54	64	74	84
DRS-2216 Ref, 45, 55, 65	15	25	35	45	55	65	75	85
DRS-2449 Ref, n/c, n/c, Cher	16	26	36	46	56	66	76	86
	17	27	37	47	57	67	77	87
	18	28	38	48	58	68	78	88

Bottom

Preliminary pixel 54 position is 12 / 22 mm

16 Gev Electrons / 3Xo Tungsten

Run 65 - 19:21 - table to X=12 mm, Y= 22 mm (2000 events)

Run 66 - 19:41 - table to **X=12 mm**, **Y= 22 mm (2000 events)**

20:00 Access to remove Tungsten

Switched to 120Gev Protons / 9K counts on MT6SC1

Trigger PMT1 and PMT2 at 1400V

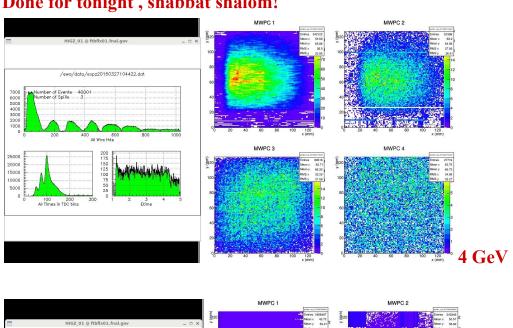
Photonis XP85011 at 2500V

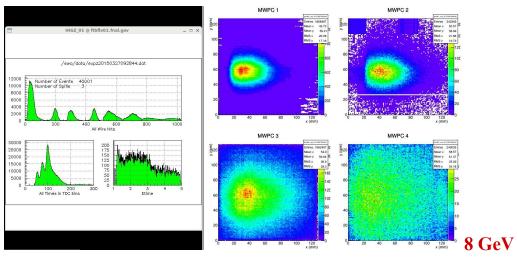
Photek (reference) at 4700V

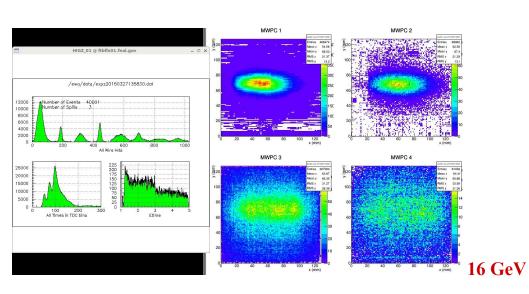
Trigger rate is low (30), have to move the dark box table to find beam

Run 67 - 20:44 - table to X/Y=12/22 mm, Box 1280/342mm (2000 events)

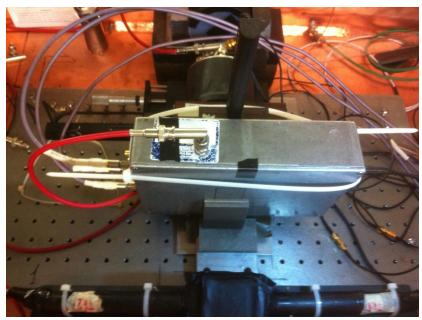
Done for tonight, shabbat shalom!







Note: 8 GeV beam set (in X) is different if to compare with March 24.



Setup with ANL LAPD

March 30,

All T1065 equipment removed from MT6, section 2 to SiDet. The Photonis XP85011 failed on March 27 (last tb day) has number 111464 (paper sticker) and bar code # 9000103. The another one, XA85011 50, S/N 7301617 was used instead of failed. AIR.