GBAR Meeting (SNU) (5 July 2016)

Jongwon Hwang

Another bar of plastic scint.



Another bar of plastic scint.



- Use the same way as the previous one
- Al foil (two layers)
 No foil on both edges
- Black sheet and tape
- PMT (H7195, 6cm in diameter, brought from 405, bought by Sato)
- Check light leakage
- Fortunately, the PMT is NOT dead.

Experimental setting



Experimental setting

Oscilloscope PMT sig. 666666666666666 FADC, MTDC, USB 3.0 Hub HV supply Cables (SY1527LC) (HV, signal) Cables (USB, LAN)

New HV supplier (SY1527)

- CAEN SY1527LC with four boards of negative HV modules (12 ch for each, 4 kV - 3 mA)
- Checked the operation. Okay.
- Connected to the PMTs (4 ch). Works.
- Power requirement: ~ 3,400 W
 It should occupy a whole single electric connect on the wall (max 15A).
- Now, operated remotely by 'telnet' network (192.168.0.152:1527)



Closed sub-network

- Using a switch hub, made the closed sub-network for DAQ with FADC
- MTCB (192.168.0.2)
 DAQ PC (192.168.0.99)
 HV Supp. (192.168.0.152)
- You can connect to the external network by wired connection between the switch hub and the external router.



TDC Issue #1: Threshold

• Take the data with the smaller TDC threshold (20)



'200' in TDC seems to correspond to '20' in ADC.

TDC Issue #2: Double peak

Check TDC according to the multiplicity of TDC hits



TDC Issue #2: Double peak

More check for each waveform



TDC Issue #2: Double peak

T(TDC) - T(WAVE)

