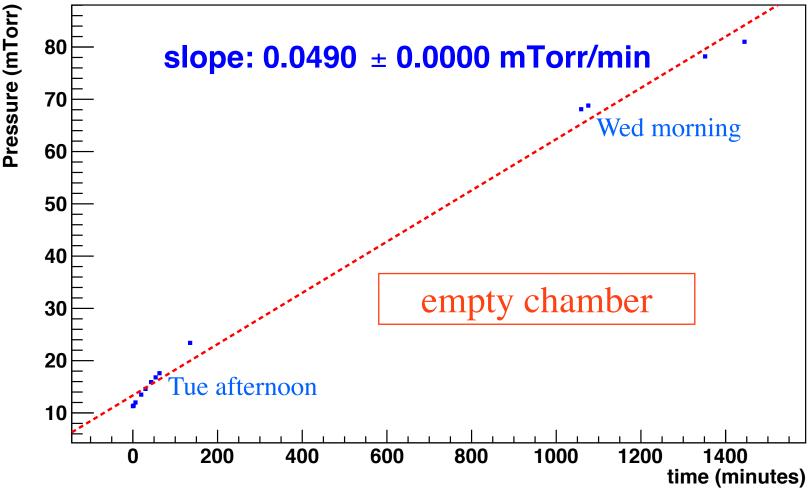
Setup of Triplet Polarimeter at JLab

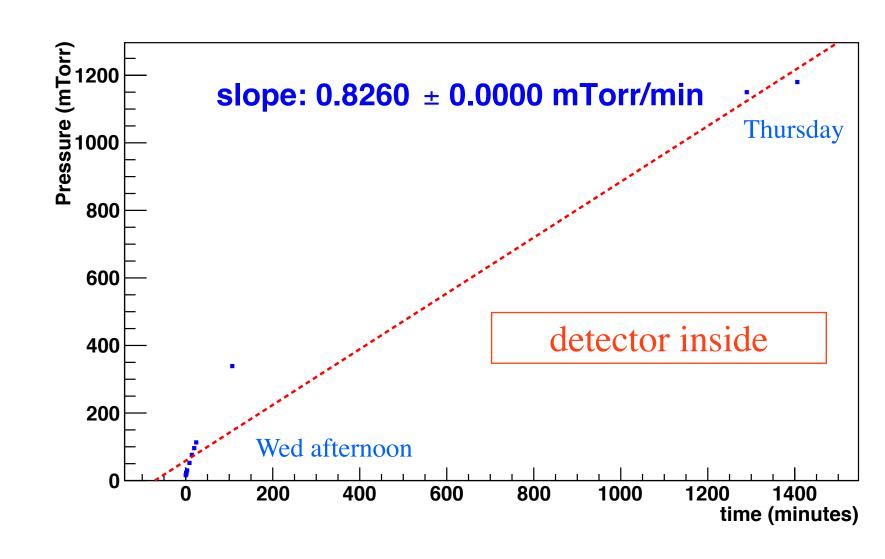
- Setting up cables around preamp (3/19)
- Cabling of LV, HV (3/23)
- Connecting LV, HV, checking source signals (3/25)

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Vacuum Outgas with Detector

- Started pump down procedure on March 18 (Wed) with detector inside
- Previous results are with empty chamber
- Significantly more outgassing

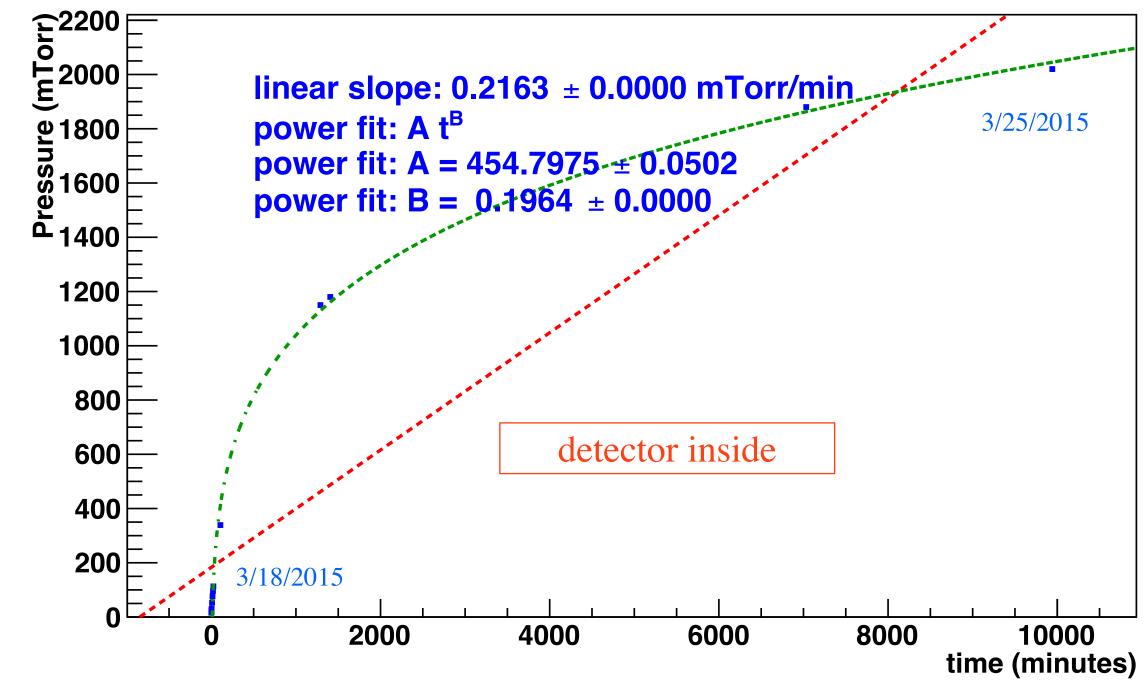






Outgas Final Results

- Started pump down procedure on March 18 (Wed) with detector inside
- Final pressure after a week was 2 Torr

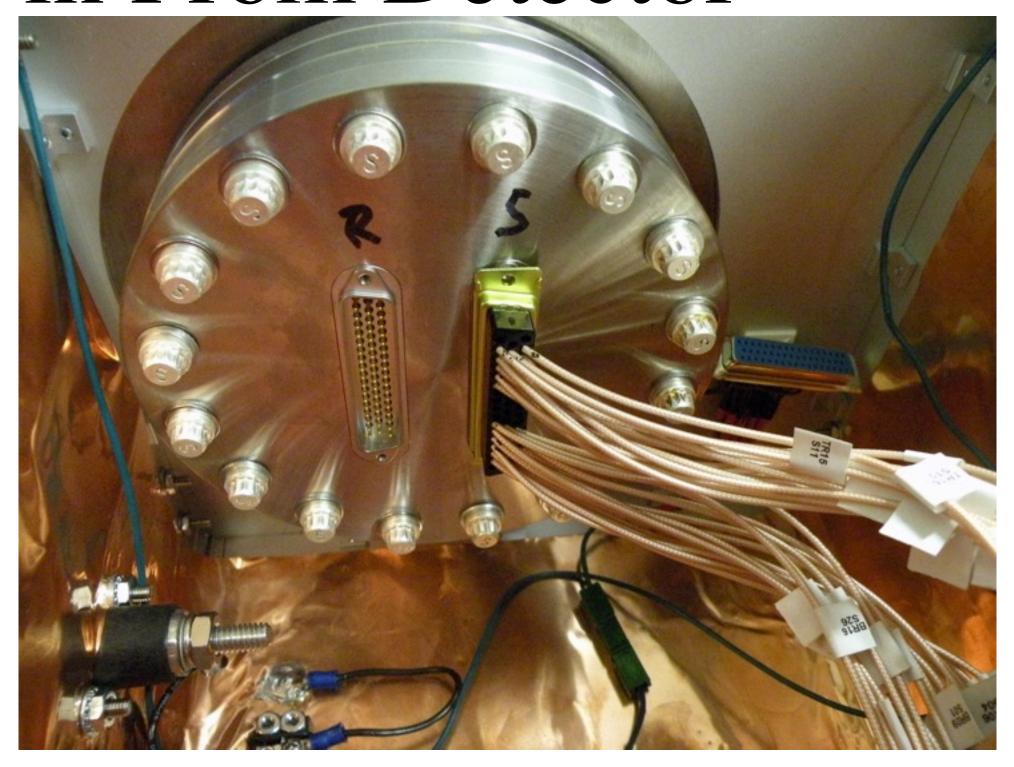




D-sub Pin From Detector



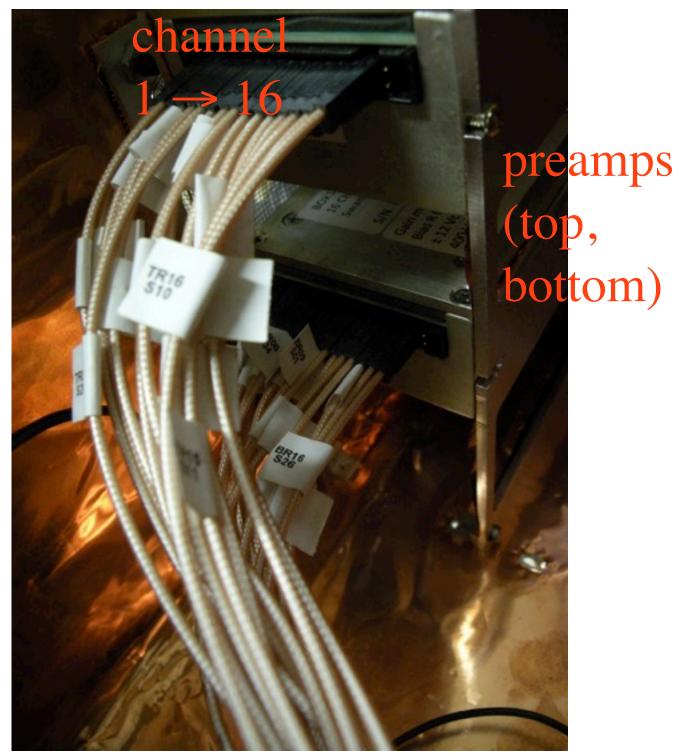
connects to output of detector signals

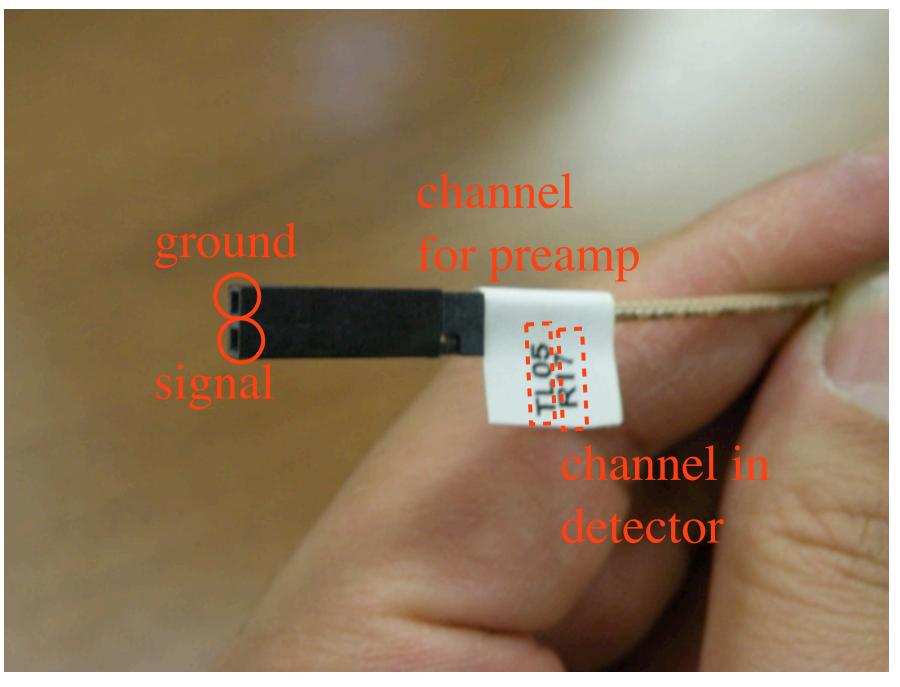


other side is detector



Preamp Connections

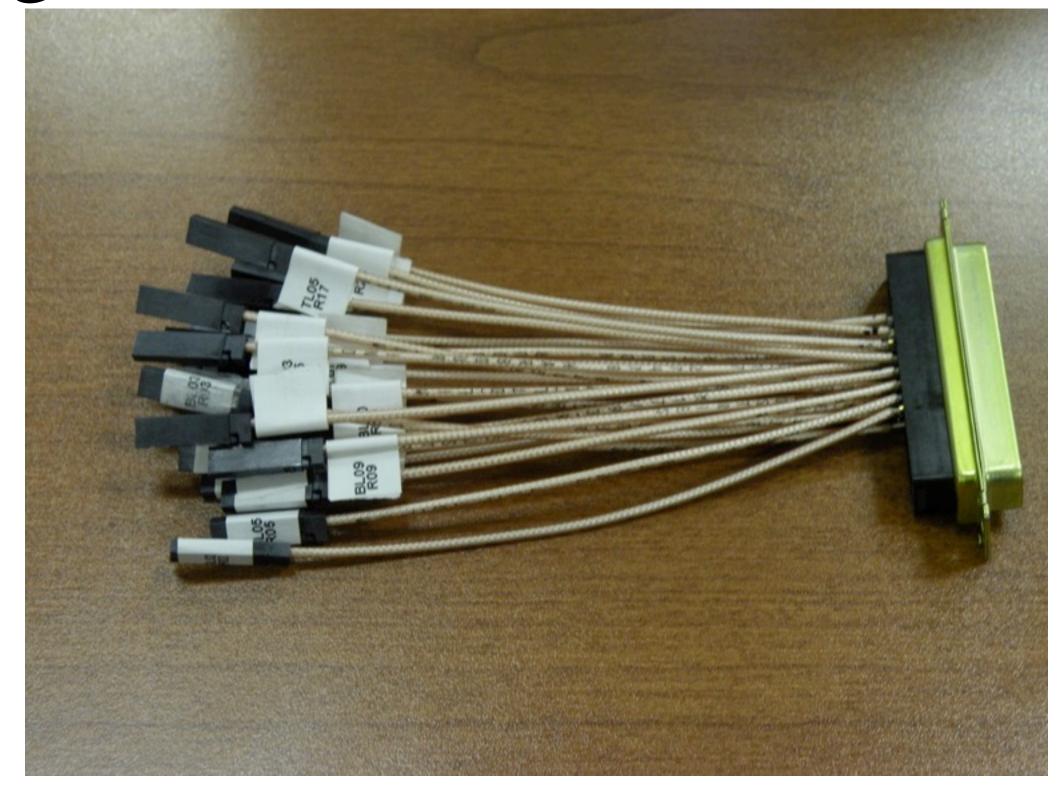






Ring Connectors

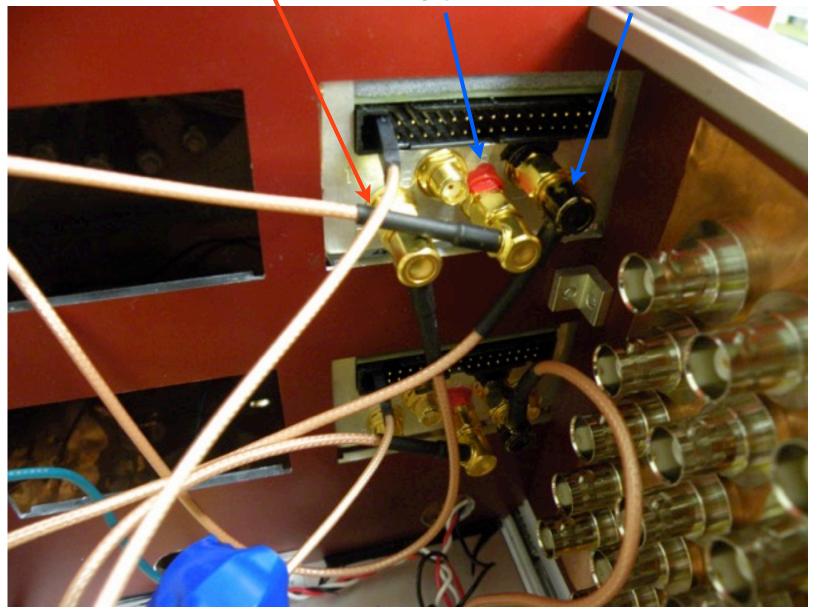
not in use yet





Cabling in Distribution Box

HV labeled B LV +12V LV -12V black

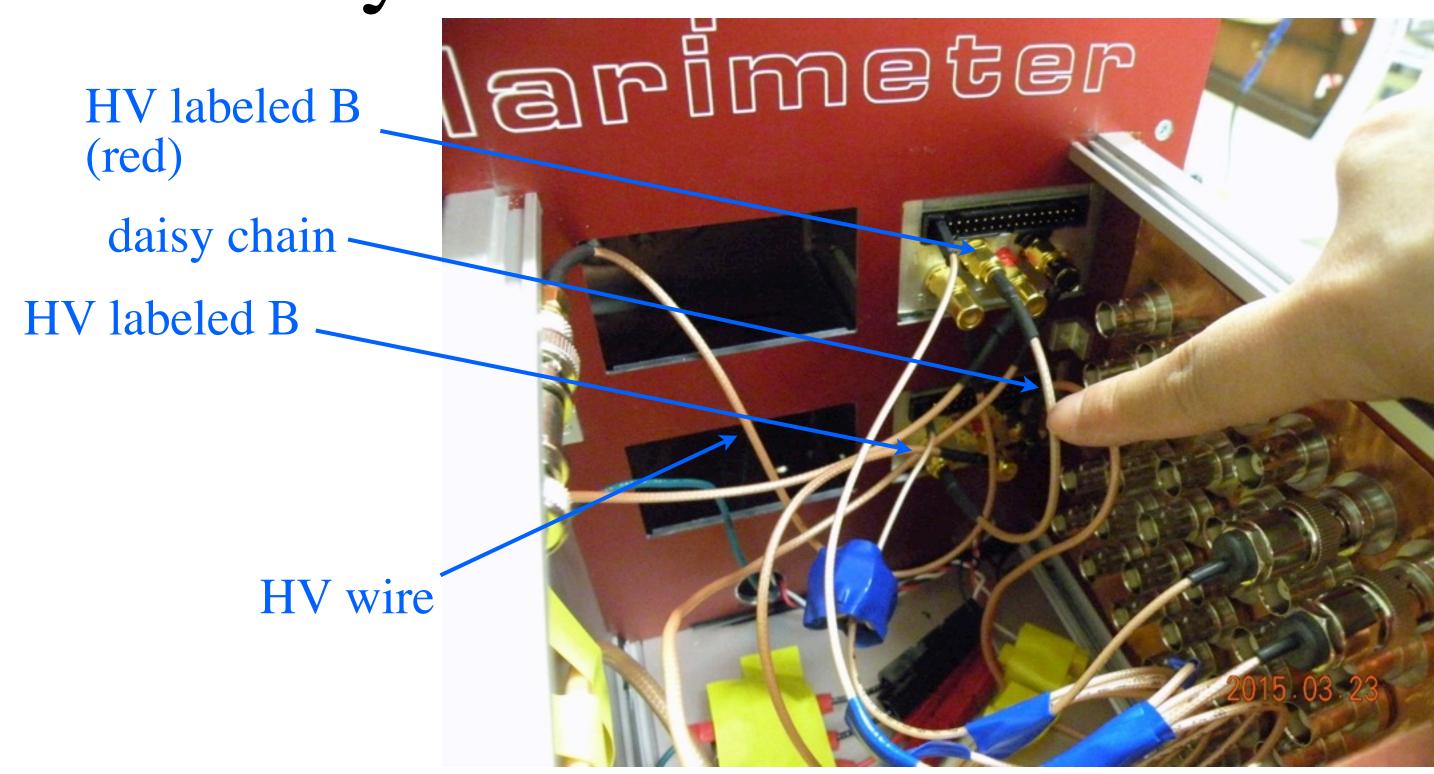




signal from preamp going to signal panel

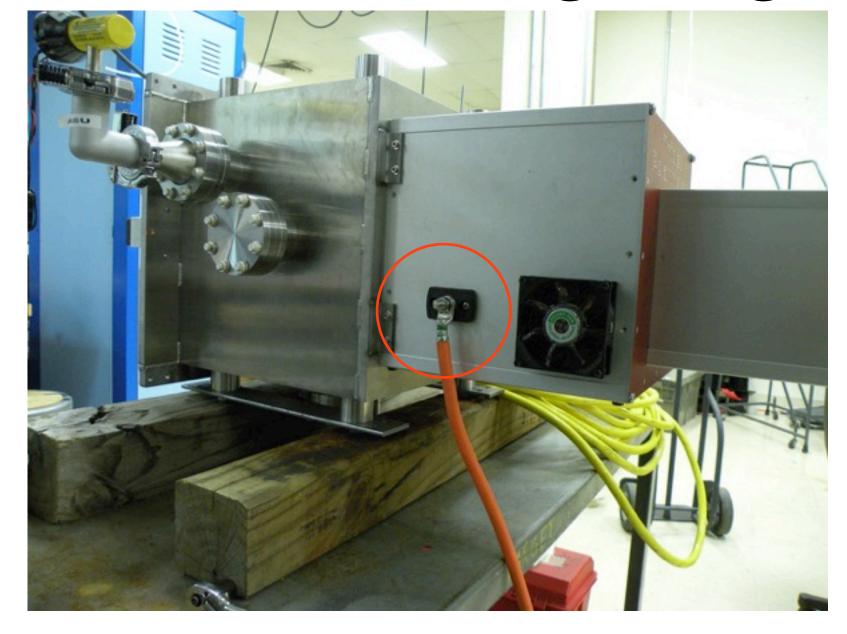


Daisy Chain for HV



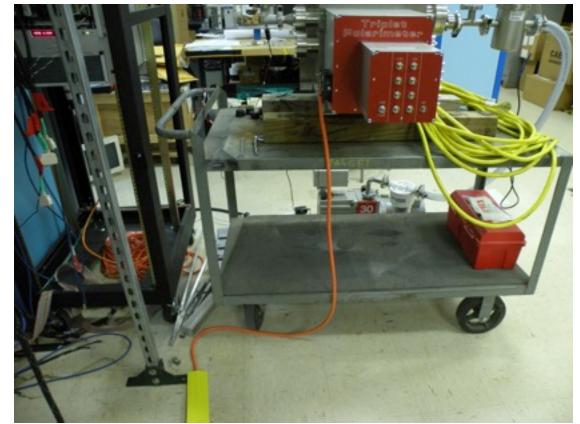


Grounding Lug



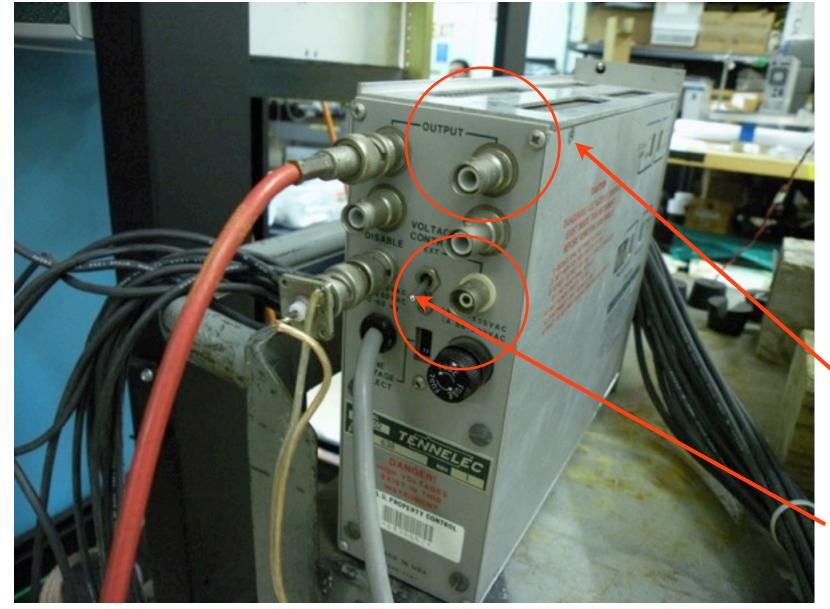
ground connection at wall







Back of HV Supply

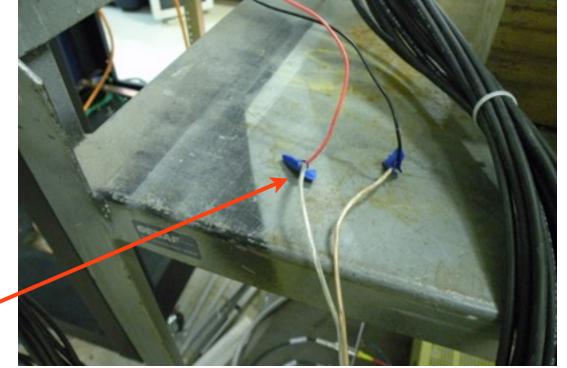




HV output

disable from stinger

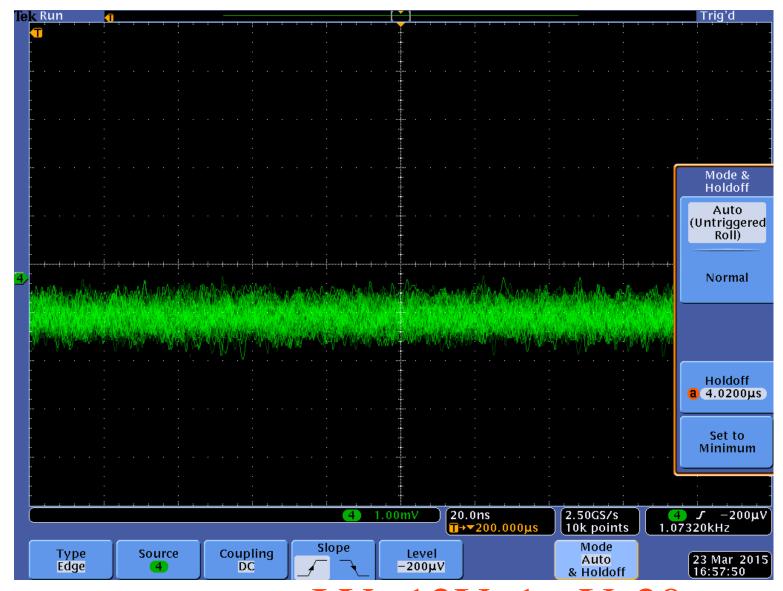
connect leads in stinger to HV disable





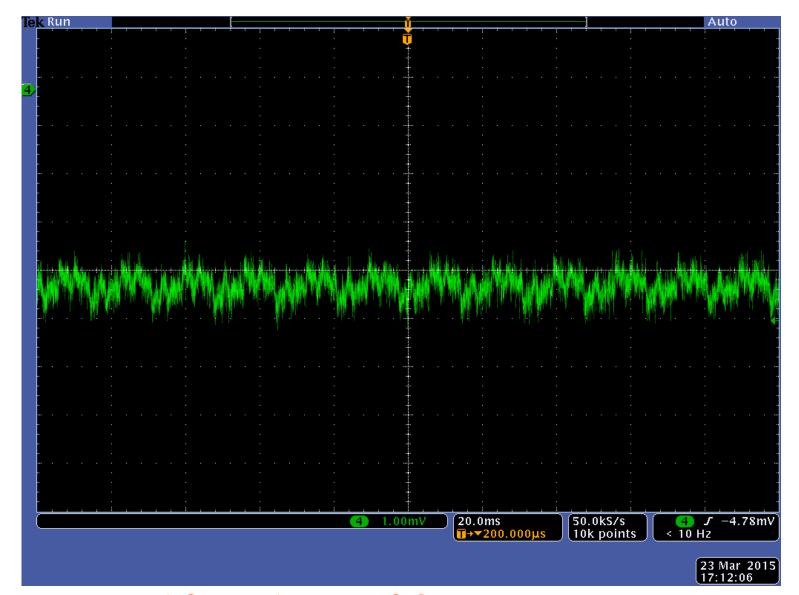
Noise Levels

- Pictures taken with USB stick in scope (png)
- LV was off



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LV -12V: 1mV, 20ns divisions

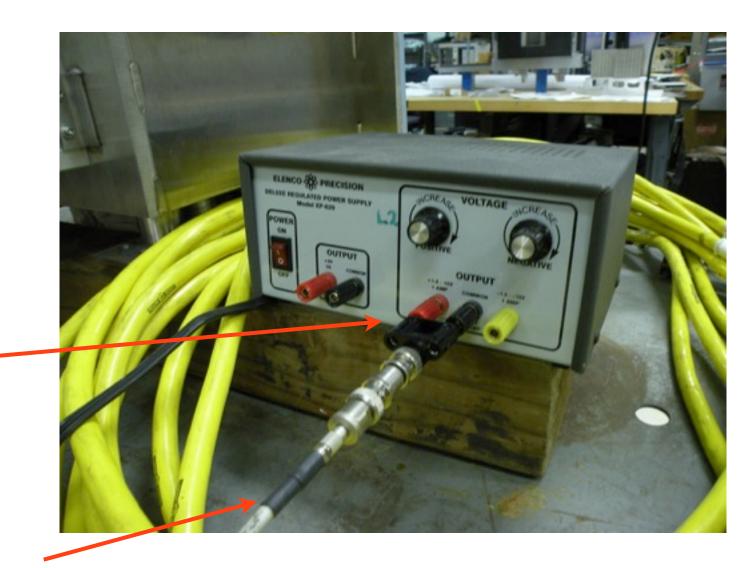


LV -12V: 1mV, 20ms divisions

LV Supply For Fans



connector from Elton



wire from Chris, Nick (Hall D electronics)



Wire Tools

voltmeter, wire, stripping/cutting tool from Chris, Nick

electrical tape from Scot (Hall D engineering)





Source

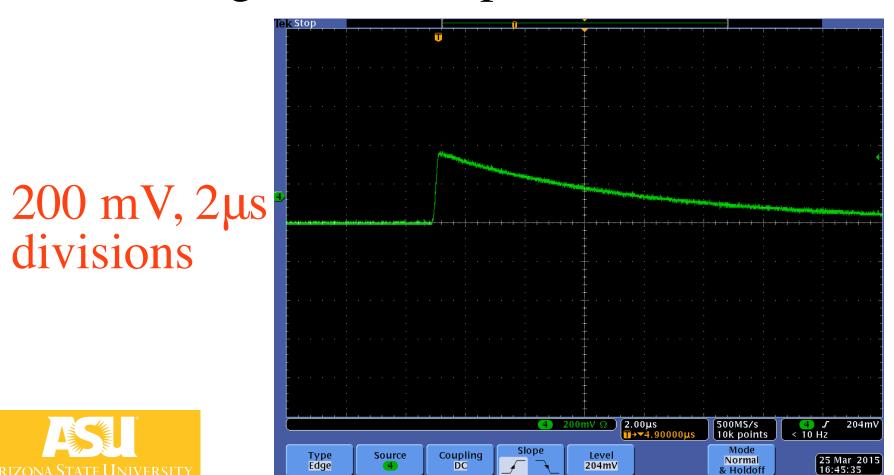
- From source dispenser: after training, can come in and get registered sources
- Now have Americium source: ²⁴¹Am
- 241 Am $\rightarrow \alpha + ^{237}$ Np, Q = 5637.81 (12) keV¹
- 1.5 μCi (60 nCi also available if too strong)





Source in Chamber

- Put ²⁴¹Am source next to detector
- Turn on, set HV to 200 V
- Turn on LV, preamp fans
- Check signals on scope







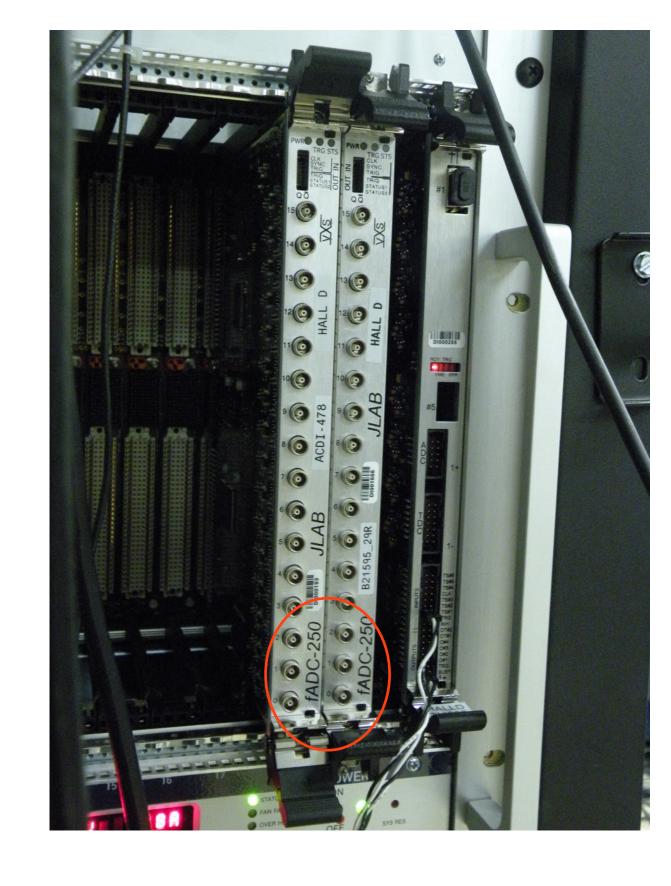
multihit event



divisions

fADC250s

- Thanks to Fernando, Chris
- Install next week with Beni





TO DO

- Check that all channels are working
- Talked to Fernando, will get fADC250s on March 26 (Thu)?

