Setup of Triplet Polarimeter at JLab

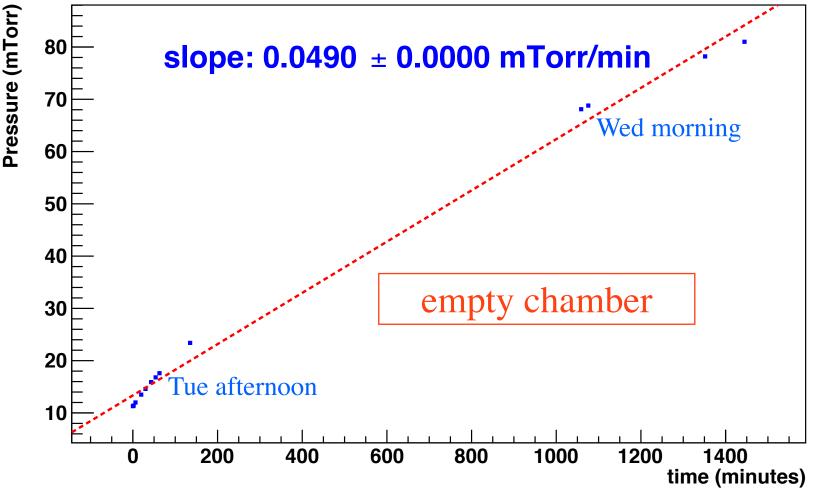
- All vacuum, LV, HV connections made
- Checked signal on all 32 sector channels
- Working on setup of fADC
- Mike is at the lab

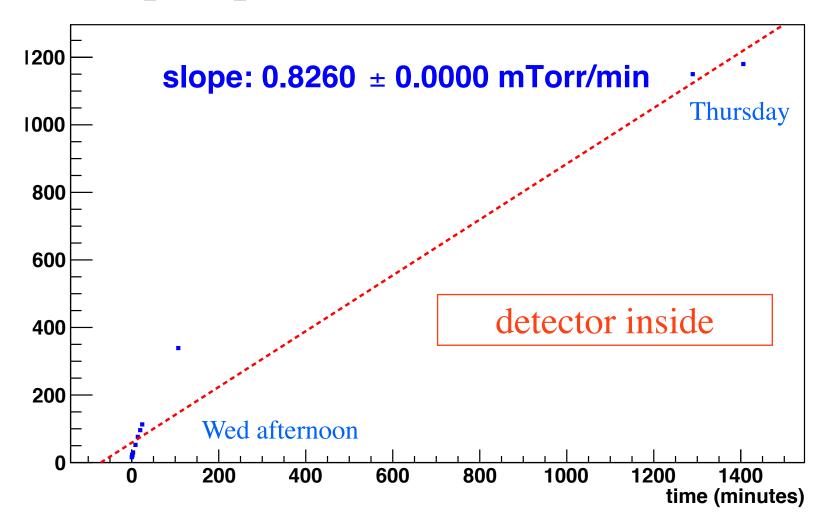
March 30, 2015 Kei Moriya, Michael Dugger



Vacuum Outgas with Detector

- Check outgas rates with vacuum pump turned off
- Significantly more outgassing compared to nothing in chamber
- In actual beamline setup we will always have pump on







Installation of Detector

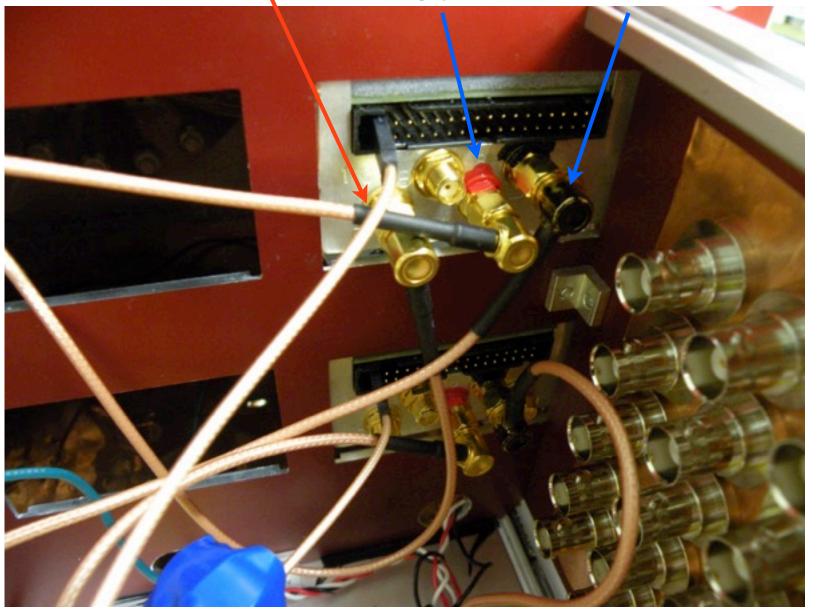
detector inside chamber

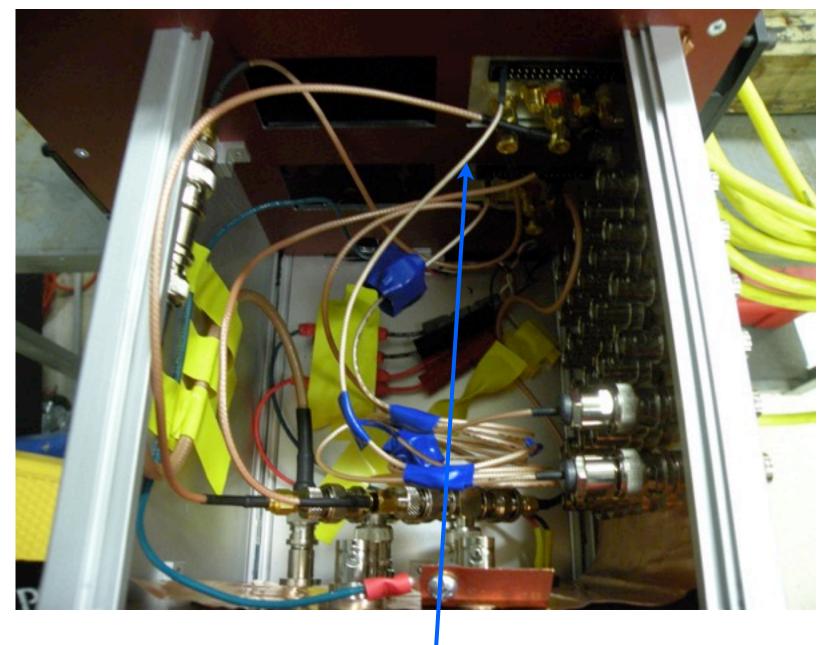




Cabling in Distribution Box

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



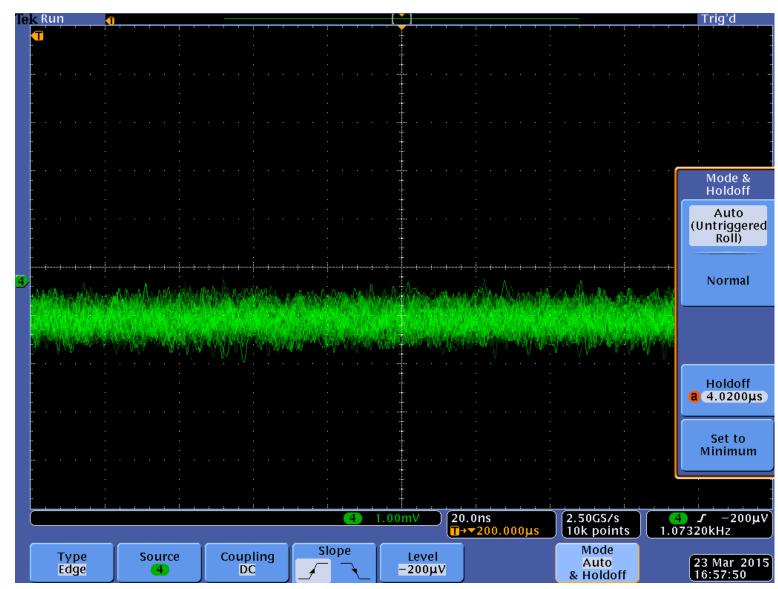


signal from preamp going to signal panel

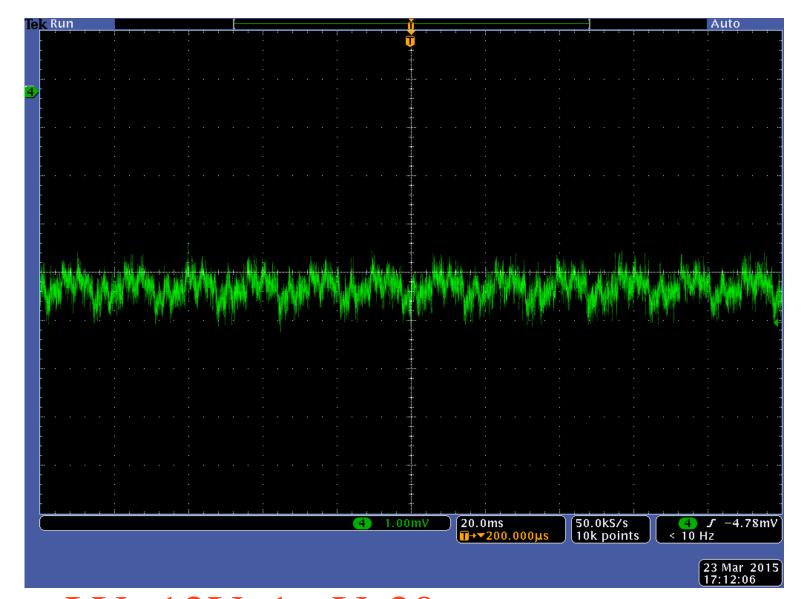


Noise Levels on LV Cables

LV was turned off







LV -12V: 1mV, 20ms divisions

Source

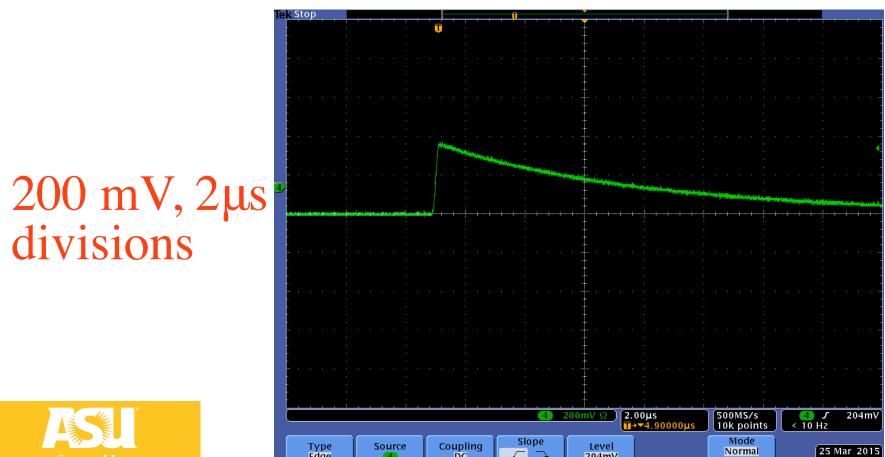
- From source dispenser: after training, can come in and get registered sources
- Now have Americium source: ²⁴¹Am
- 241 Am $\rightarrow \alpha + ^{237}$ Np, Q = 5637.81 (12) keV¹
- 1.5 μCi (60 nCi also available if too strong)





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

Cables and fADC

fADC250s.

• Thanks to Fernando, Chris



signals

