

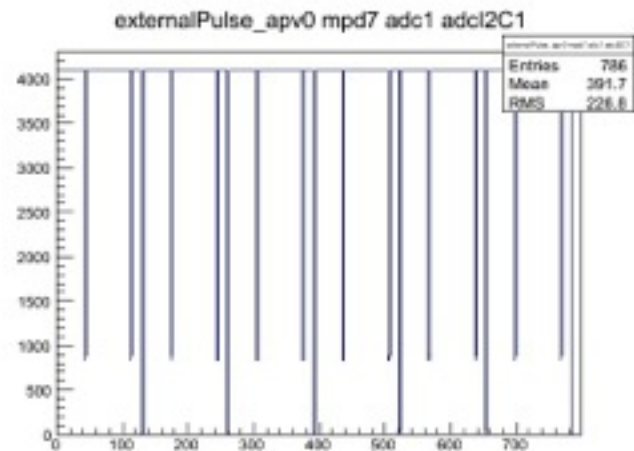
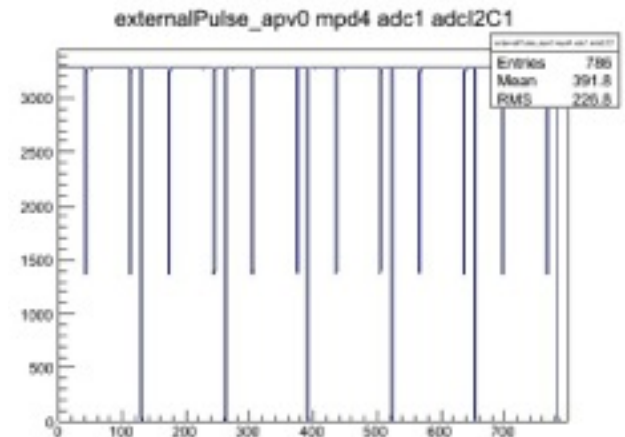
## APV25 electronics test progress at CIAE

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Zhou,Chao Shan,Shuhua Zhou



## We tested with Adapter Last Time

- ADC value
  - X axis is channel of apv25
  - figure1,gain=1
  - figure2,gain=6
- 
- The ADC value is very high
  - negative pulse appear
  - the data looks like very regular.



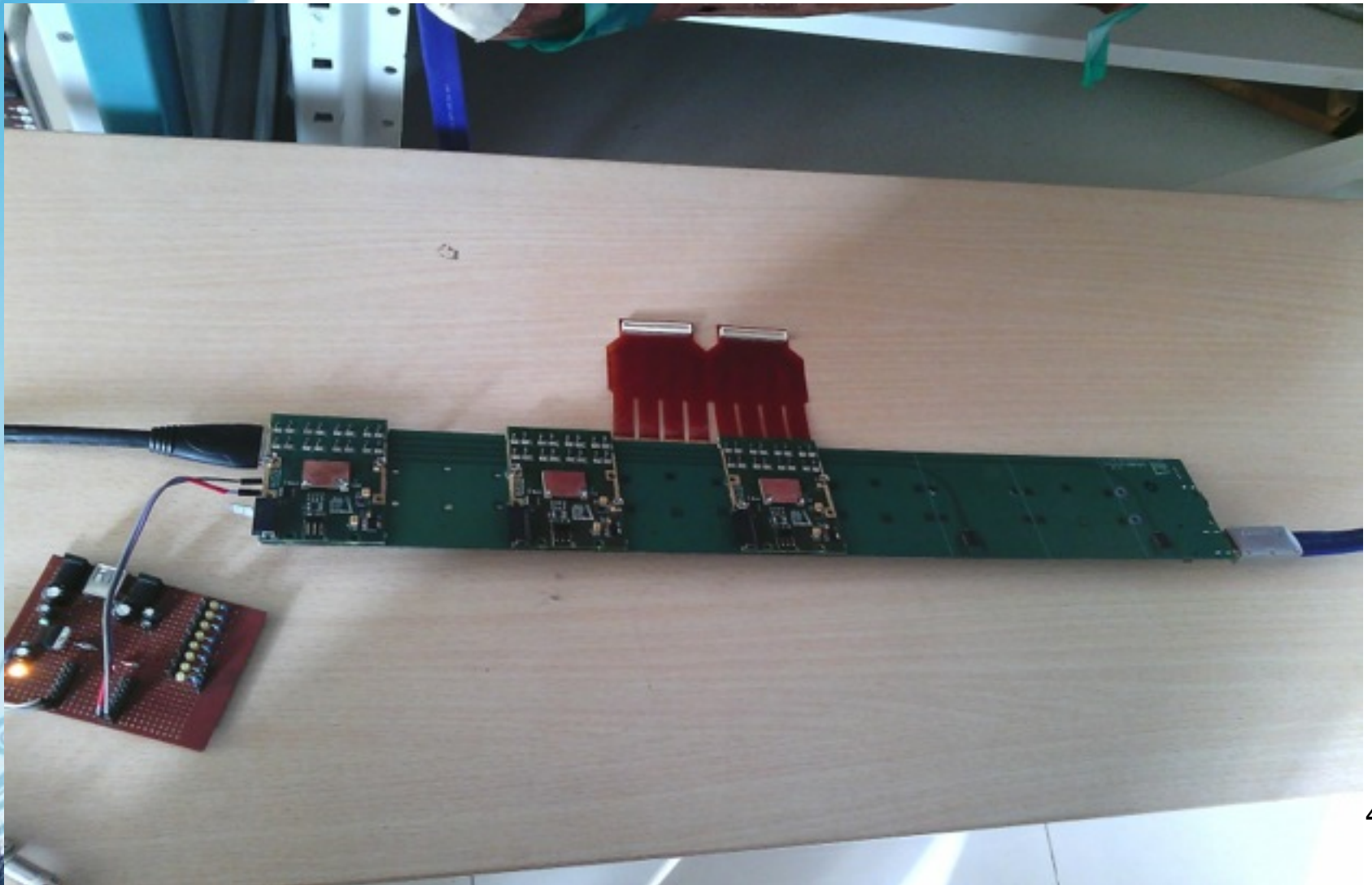


## New backplane

- We got a backplane from Italia
- New computer used and re-installed the system
- Trigger: NIM trigger (100ns width)
- Three FE-cards inserted on the backplane



# Disconnect to Chamber

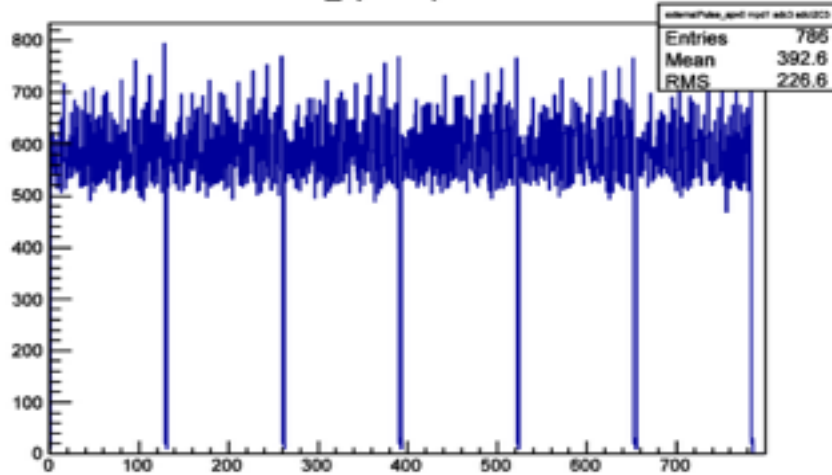




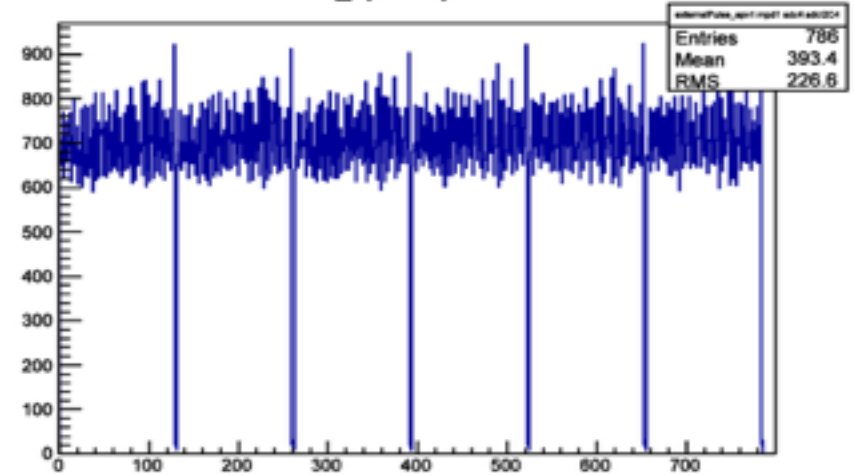


# Disconnect to Chamber

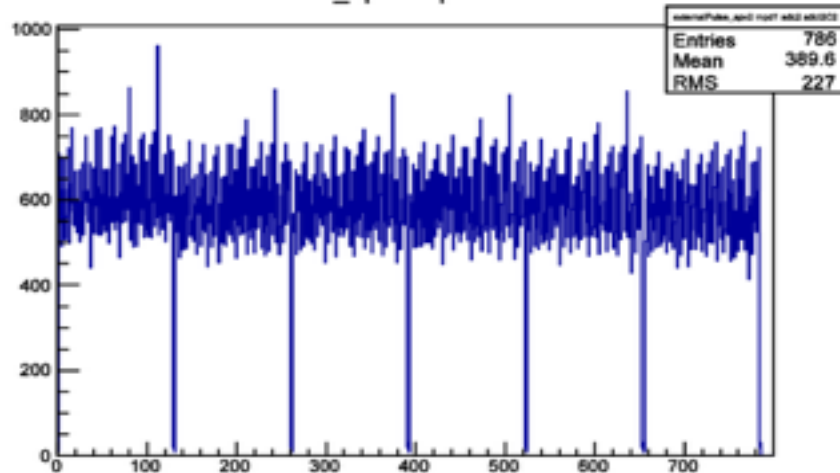
externalPulse\_apv0 mpd1 adc3 adcl2C3



externalPulse\_apv1 mpd1 adc4 adcl2C4



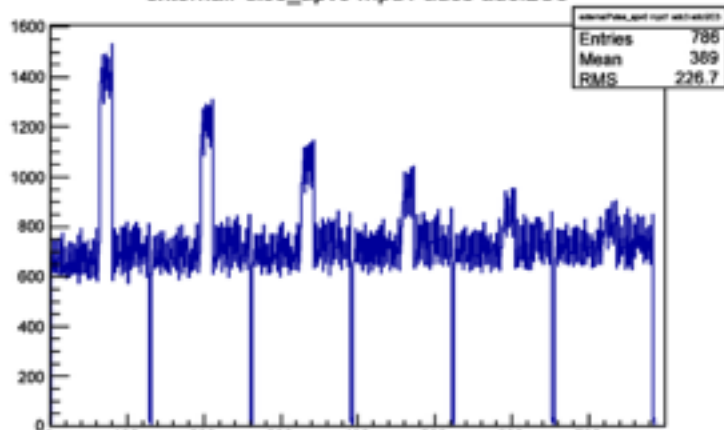
externalPulse\_apv2 mpd1 adc2 adcl2C2



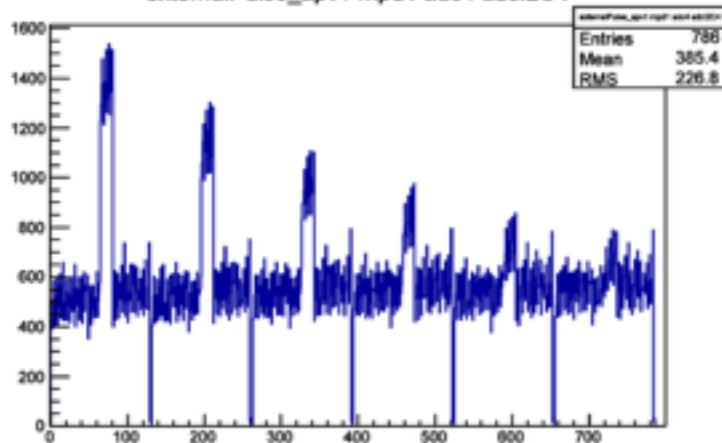


# calPulse on

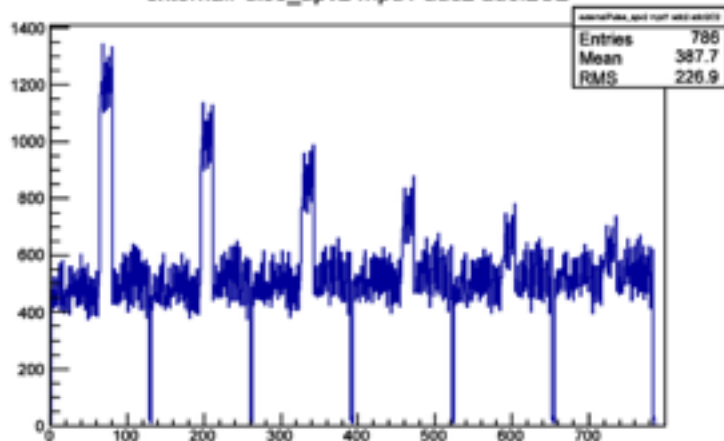
externalPulse\_apv0 mpd1 adc3 adcl2C3



externalPulse\_apv1 mpd1 adc4 adcl2C4

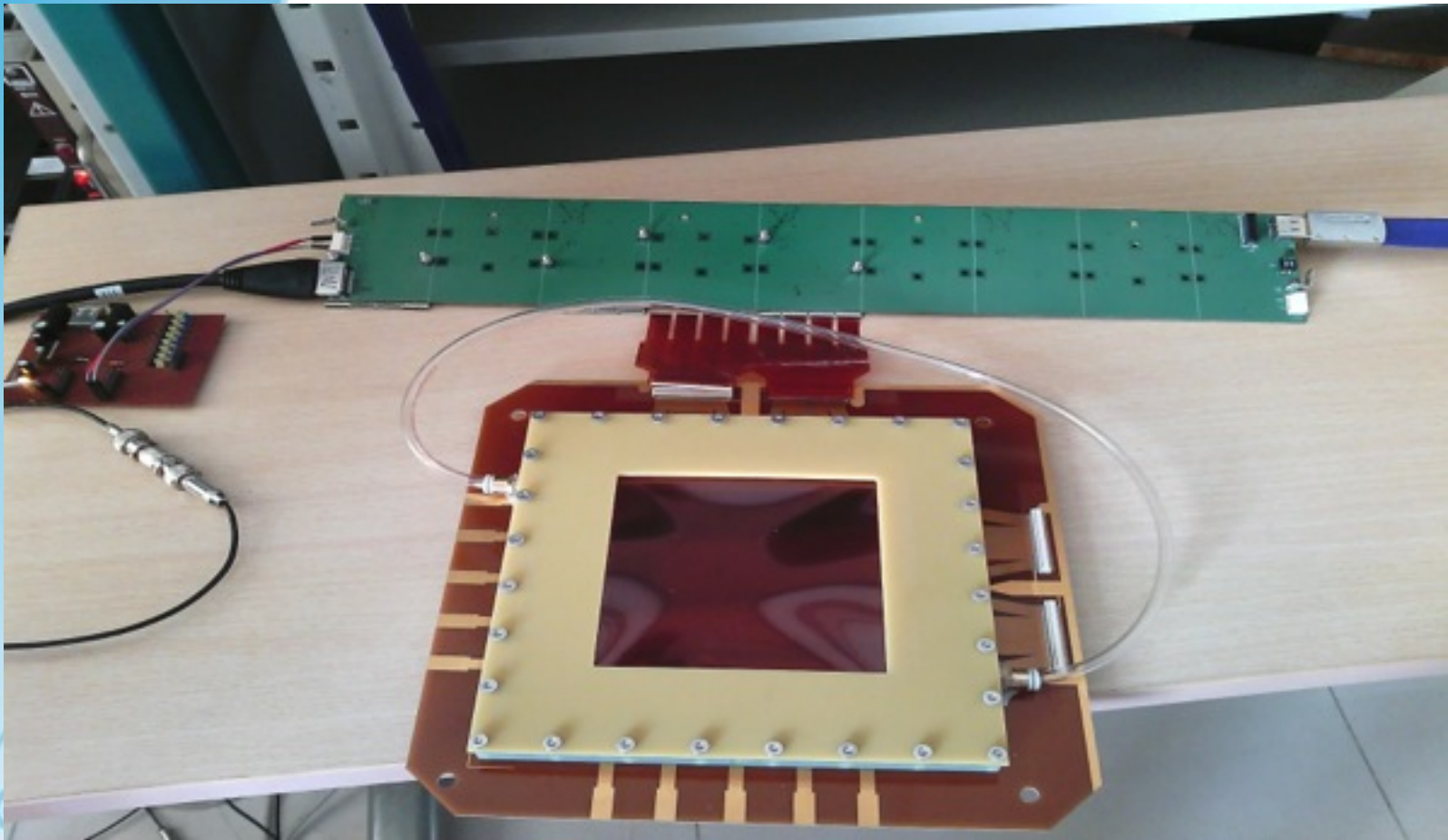


externalPulse\_apv2 mpd1 adc2 adcl2C2



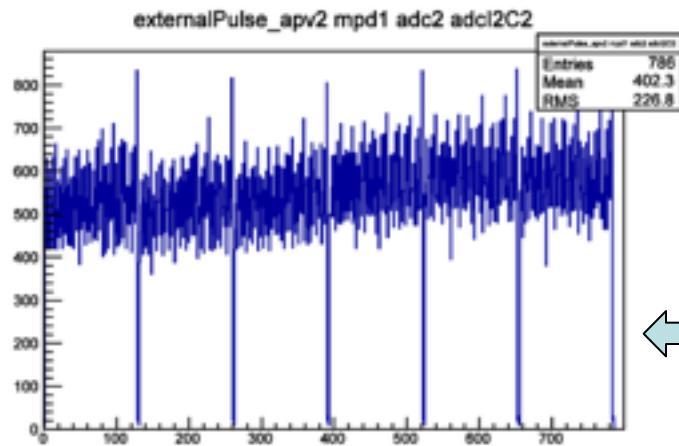
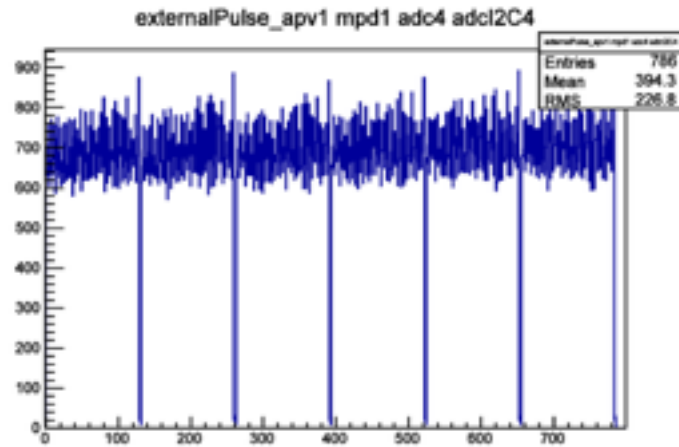
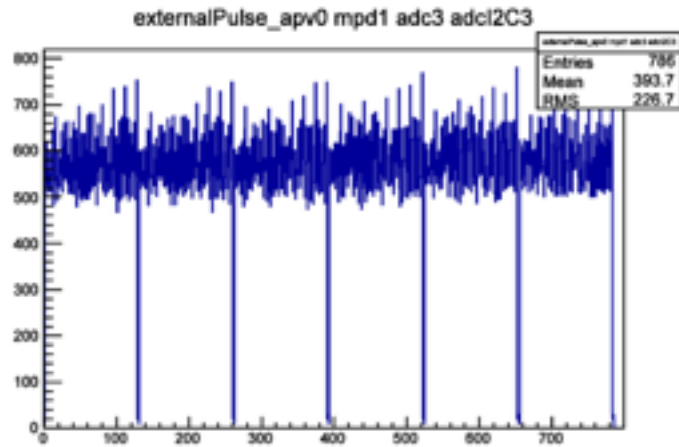


Connect to Chamber  
no gas,no HV





# Most, but not all, looks good

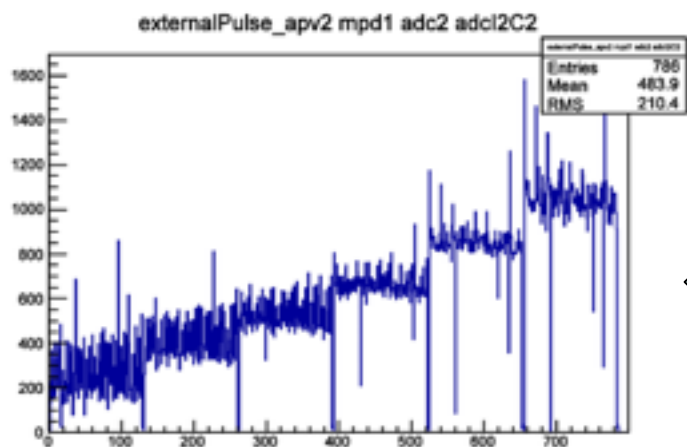
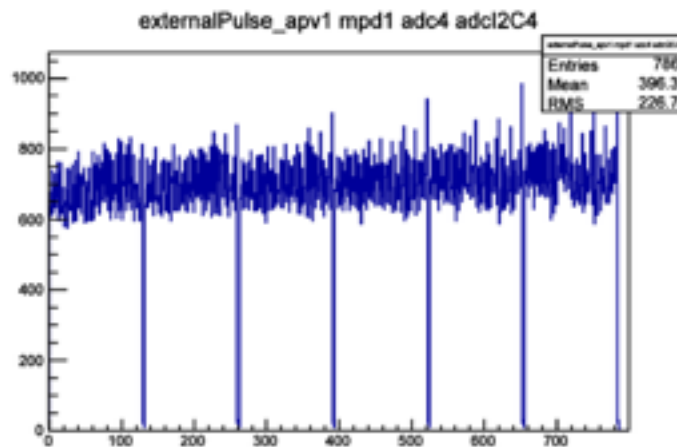
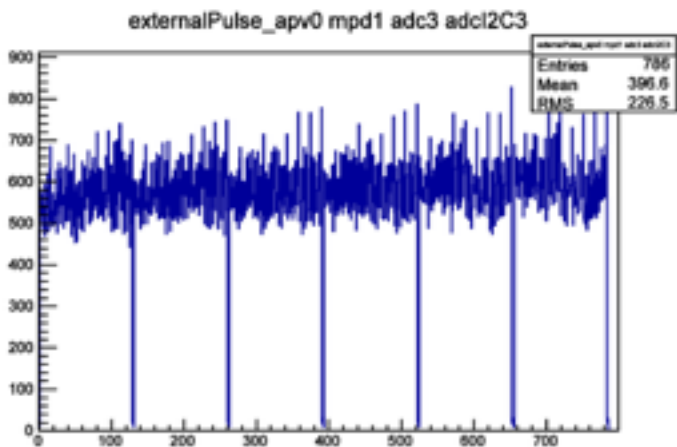


← Connect to Chamber





# For example : bad event

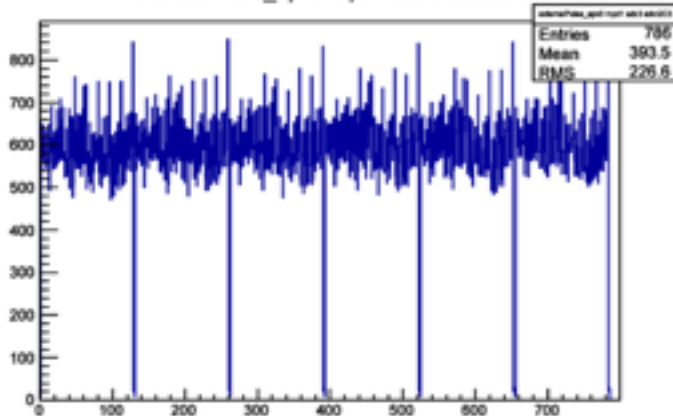


**Connect to  
Chamber**

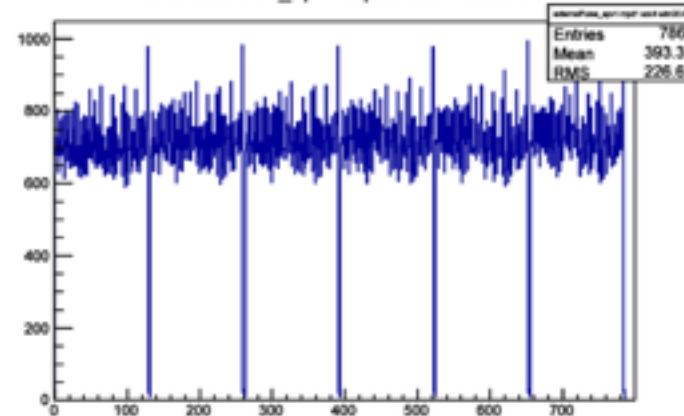


For example : bad event

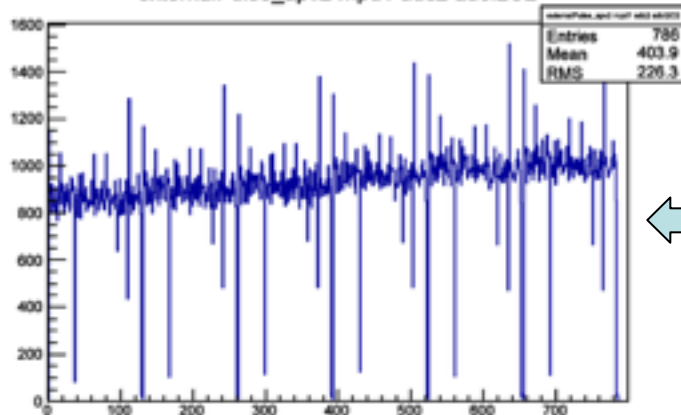
externalPulse\_apv0 mpd1 adc3 adcl2C3



externalPulse\_apv1 mpd1 adc4 adcl2C4



externalPulse\_apv2 mpd1 adc2 adcl2C2



**Connect to  
Chamber**



## NEXT

- Optimize Latency
- Optimize Clockphase
- HV on with gas flow