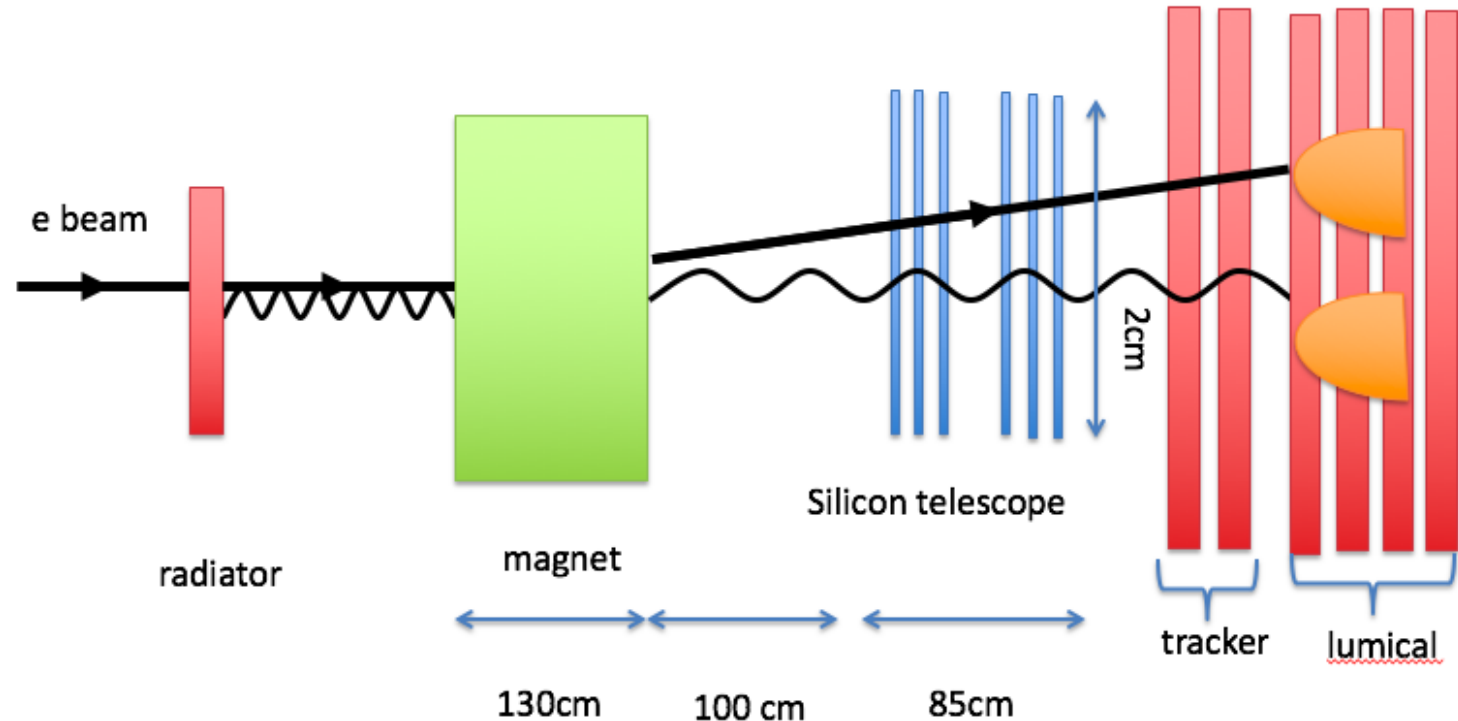


# TB 2016 data analysis

Yan Benhammou

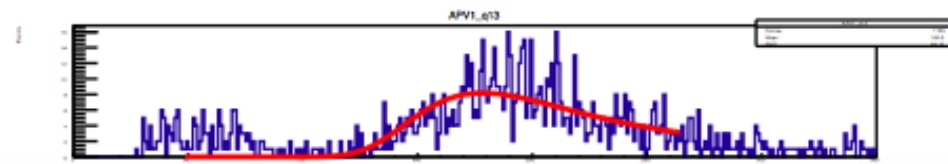
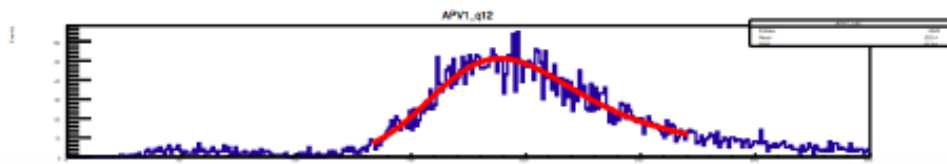
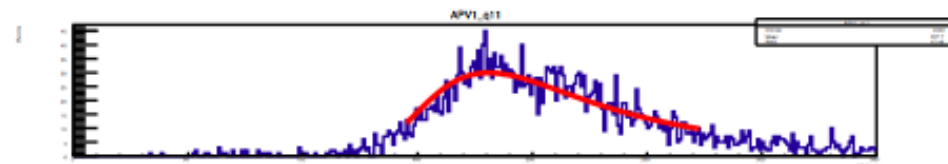
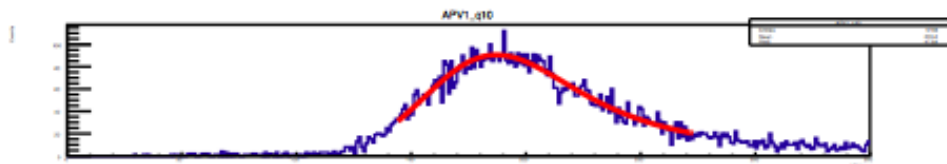
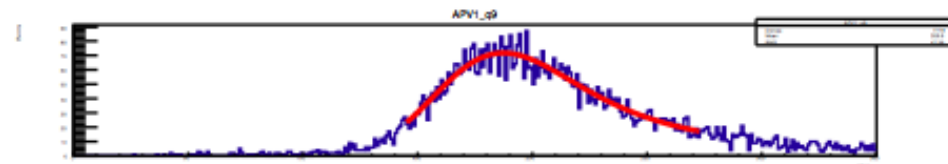
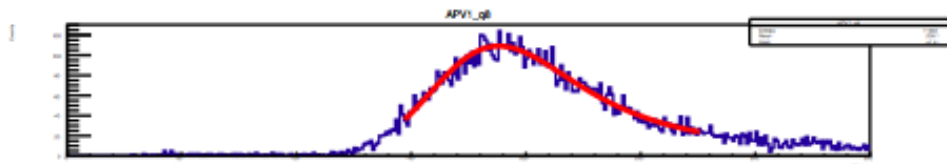
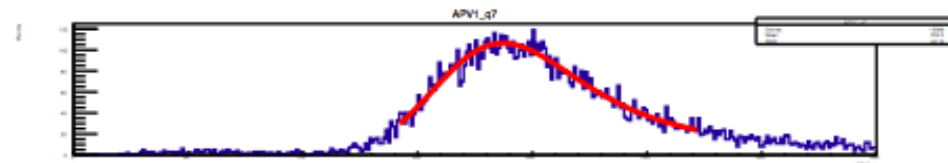
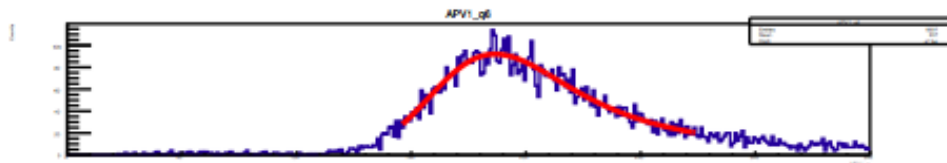
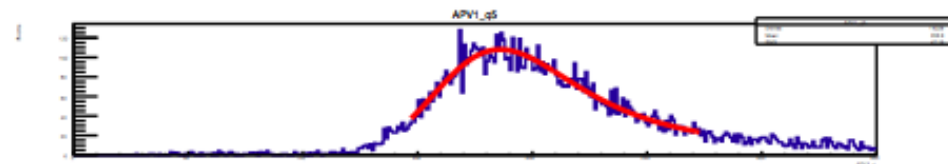
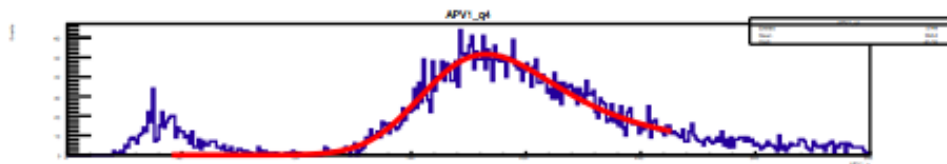
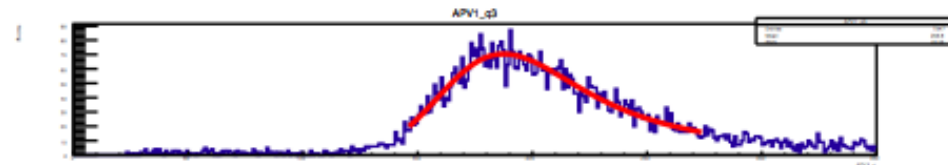
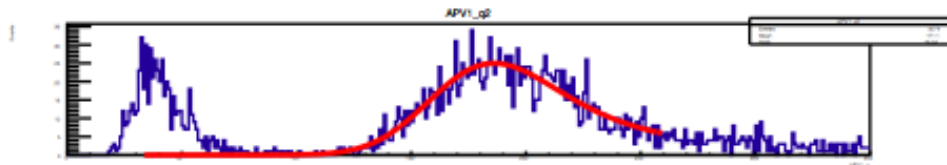
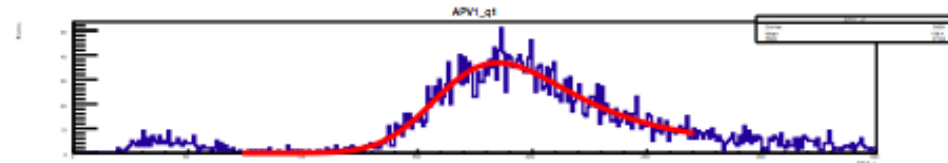
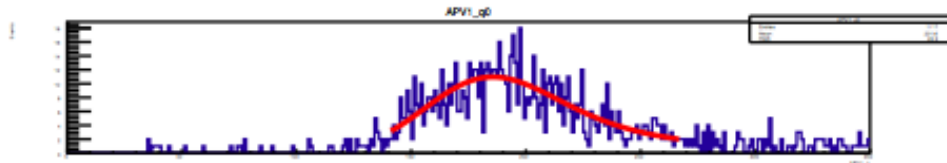
# Test beam setup

- 8 **rotated** silicon planes (1/2 TAB bonding)
- A lot of tungsten planes
- 16 ASD chip (2048 channels)
- Telescope (six planes)

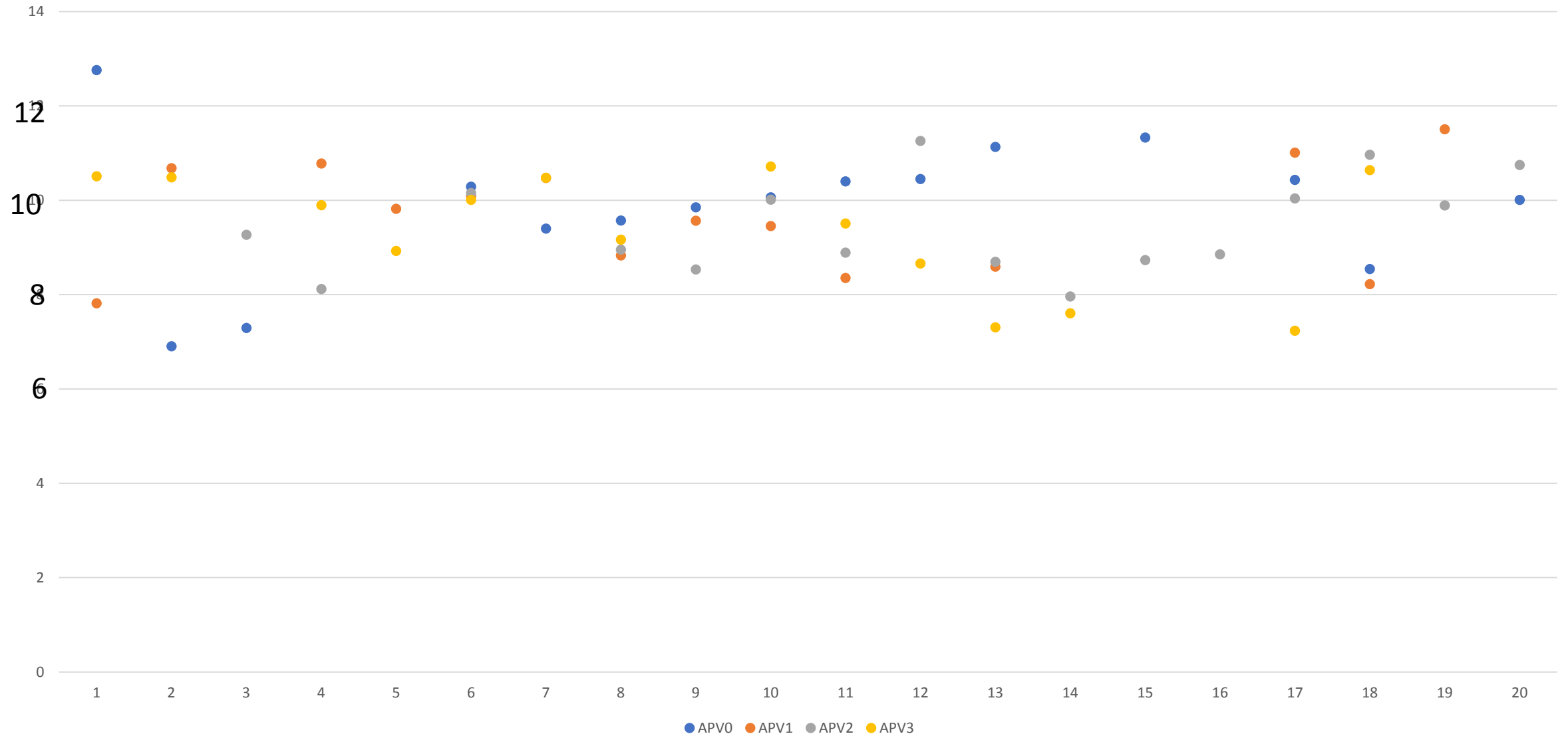


# Signal over noise

- Look at 10 channels around the center of the beam (20 pads) in the same column
- Apply fit of Landau convoluted with gaussian



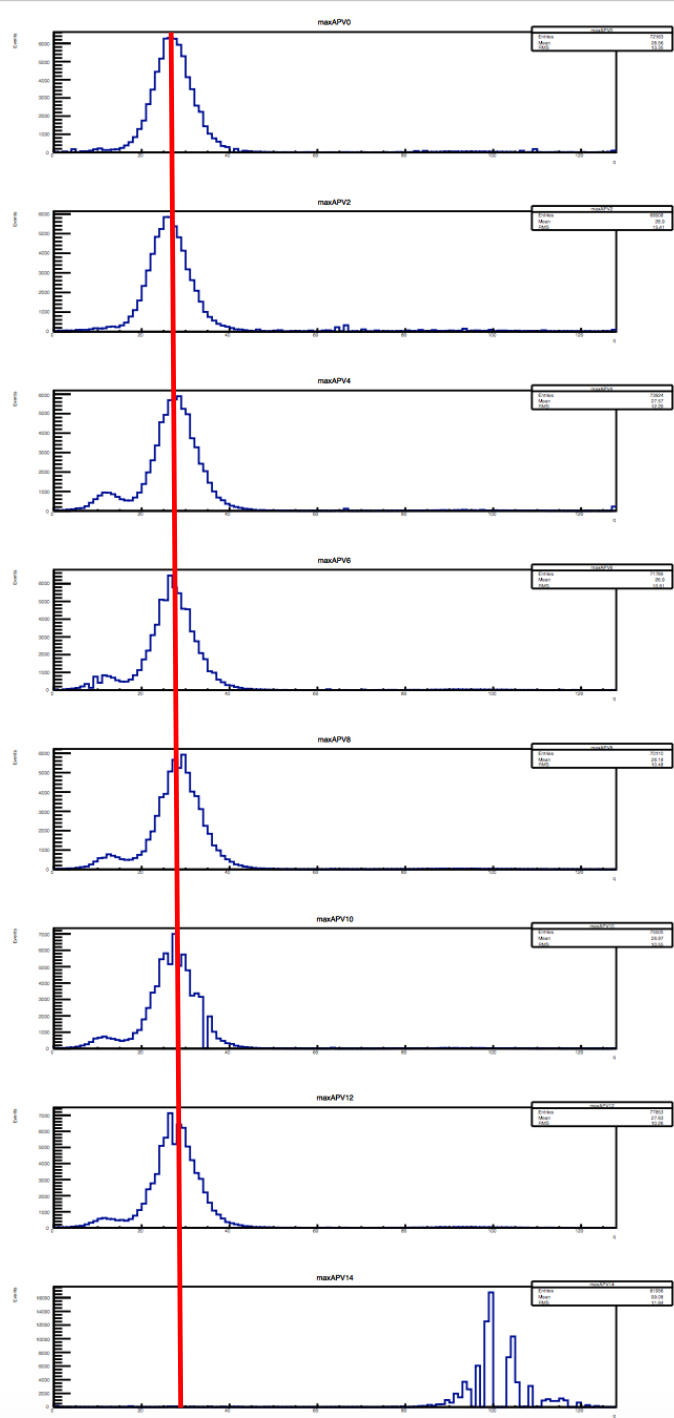
# signal over noise



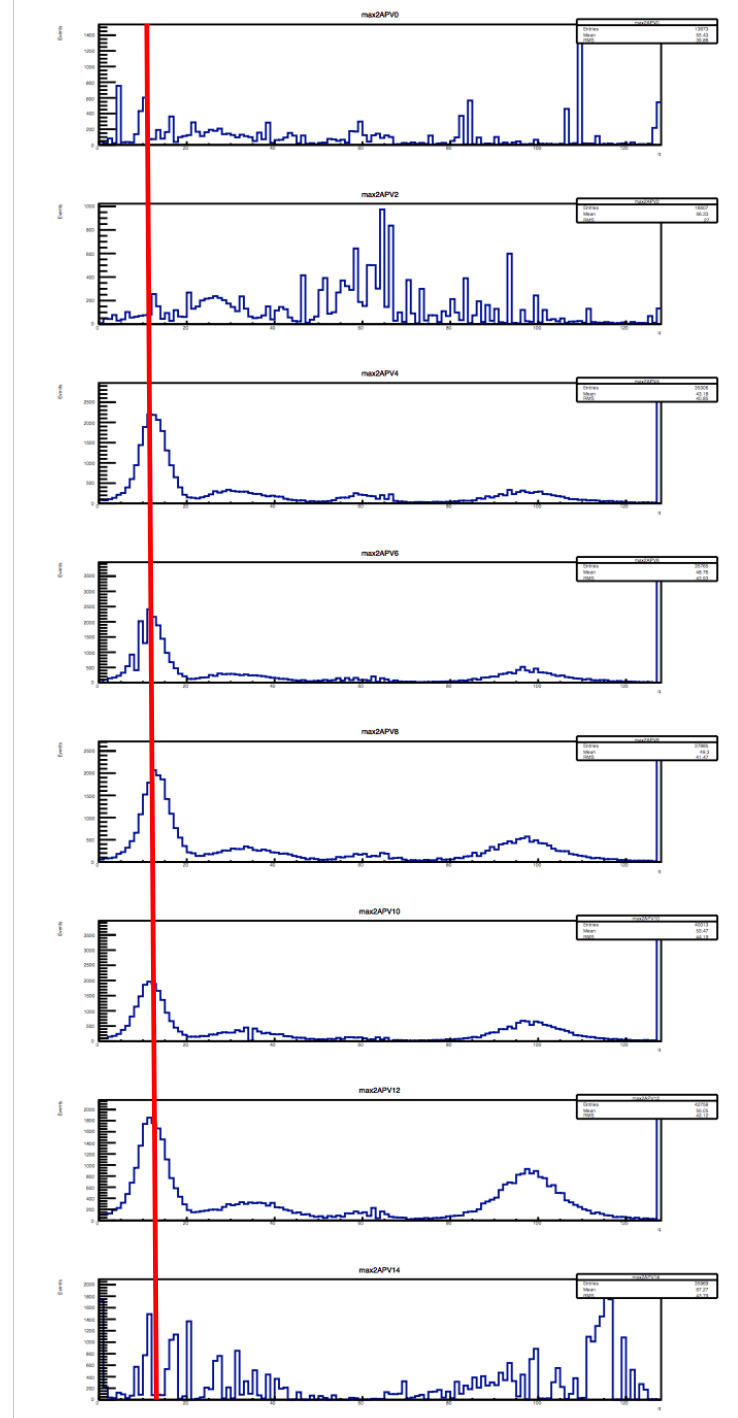
# Electron gamma

- Search for the first maximum
- search the second maximum at least 10 pads radius of max1

**MAX 1 :**  
**Electron**  
**Channel ~31**



**MAX 2:**  
**Photon**  
**Channel ~12**



# conclusion

- Signal over noise study is done with results  $\sim 9$
- Electron photon study is starting with nice results:
  - Need to clean the signal
  - Check the back scattered particle into the silicon tracker
  - Need to add the telescope data