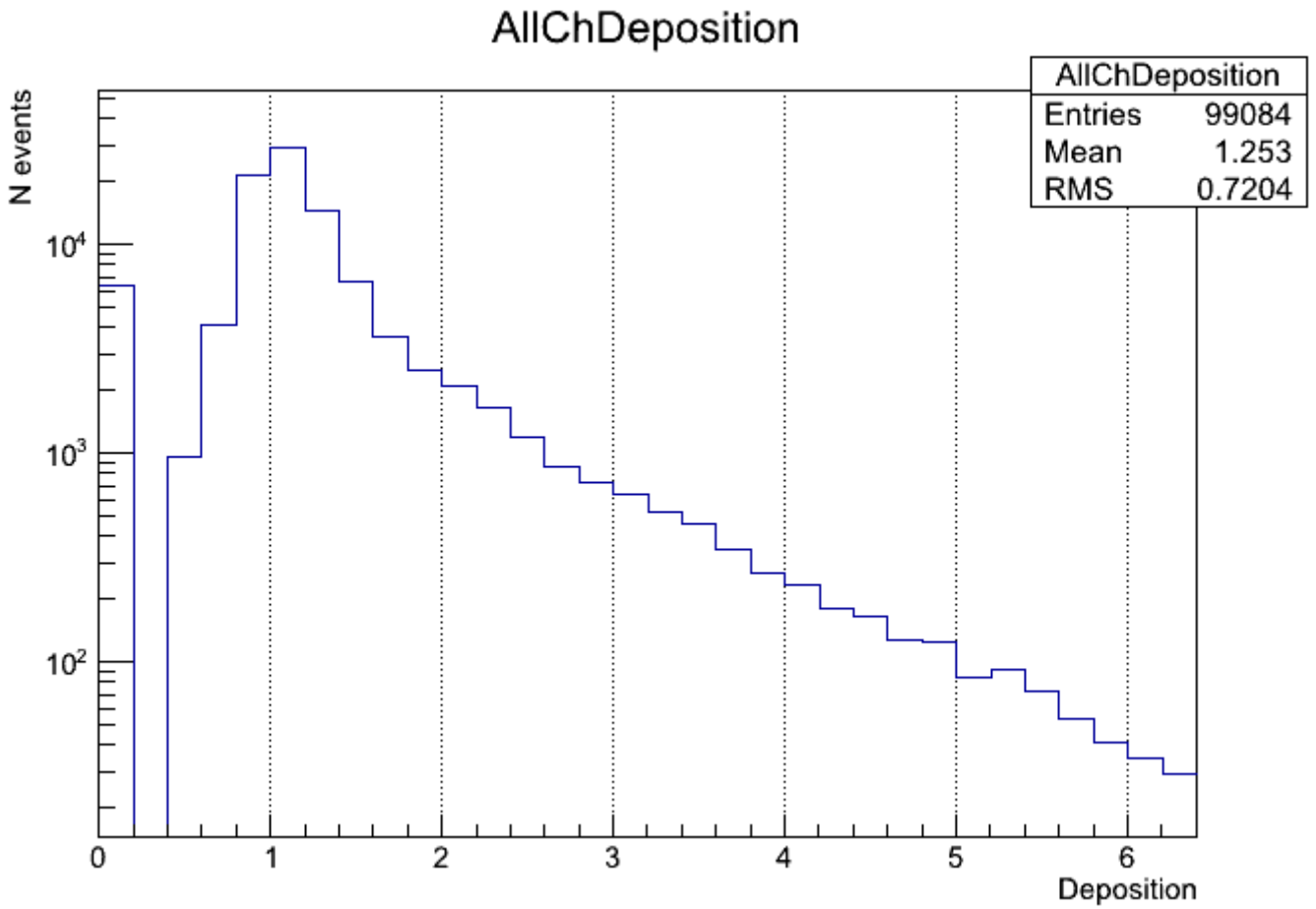
Analysis of Showers

26.09.2012
Test Beam Analysis

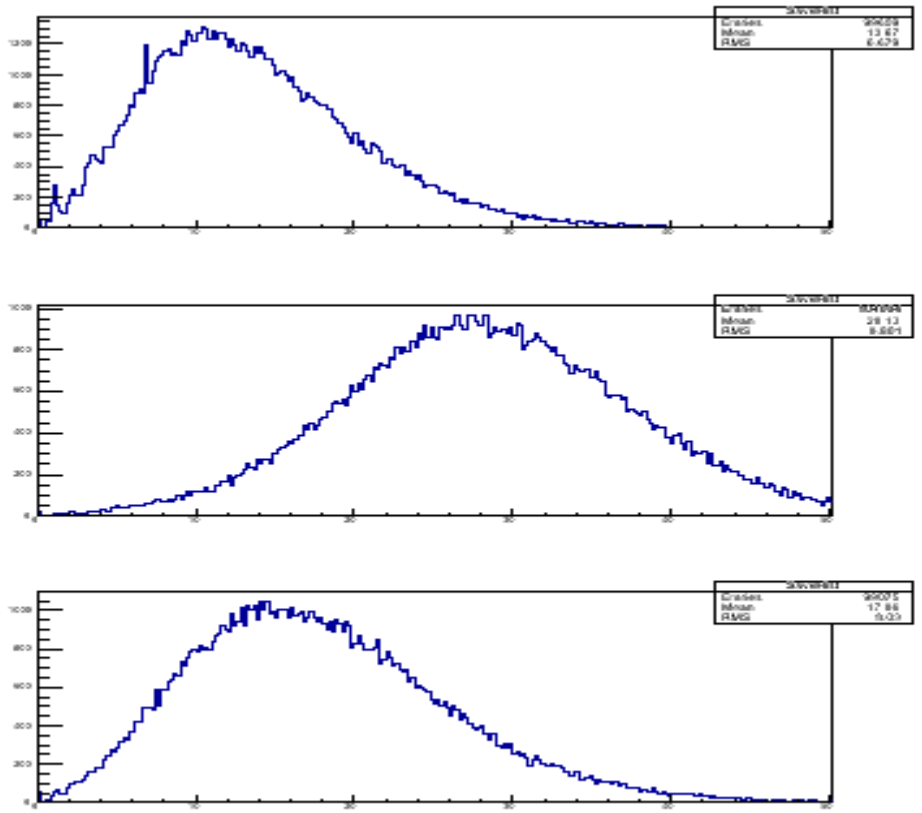
How To

- Sum over 20 upper pads
- Multiplication of channels with lower gate by 2.1
- Final Sum division by 94 – MIP MPV
- Fit of final histogram by Landau Gauss Deconvolution
- 0Xo is taken = 1
- Shower Profile picture obtained

One Layer 0Xo W

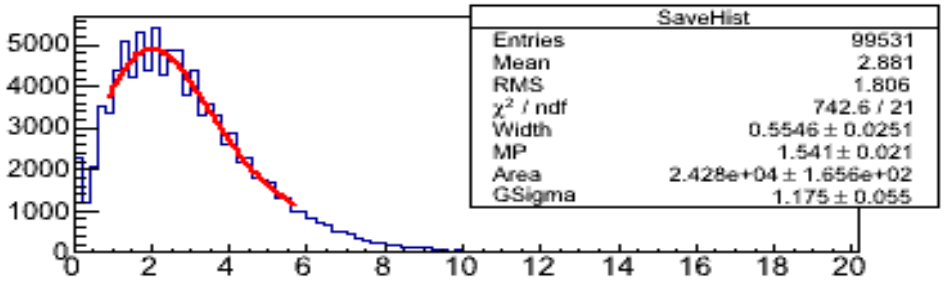


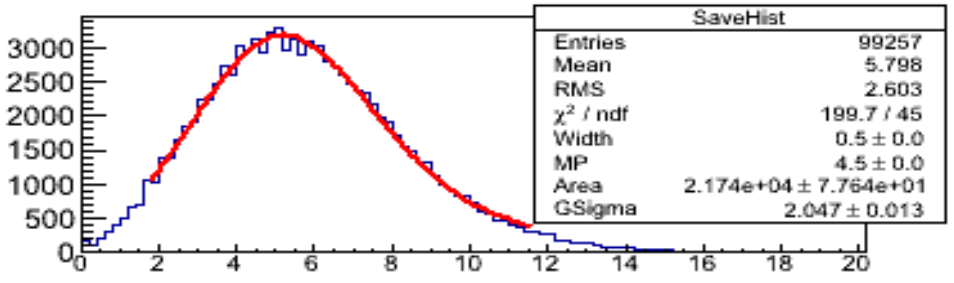
- Example of the 0Xo files for HH gain

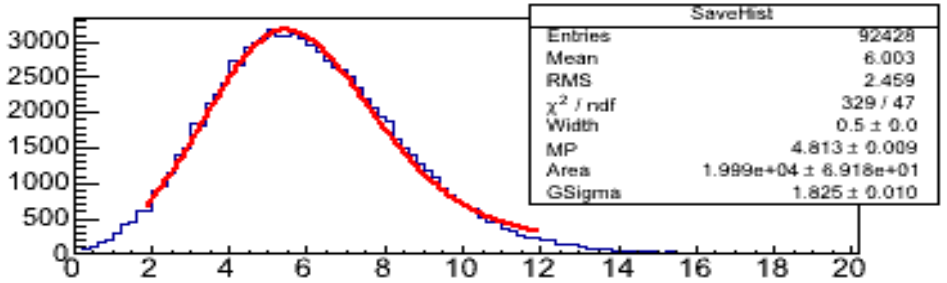


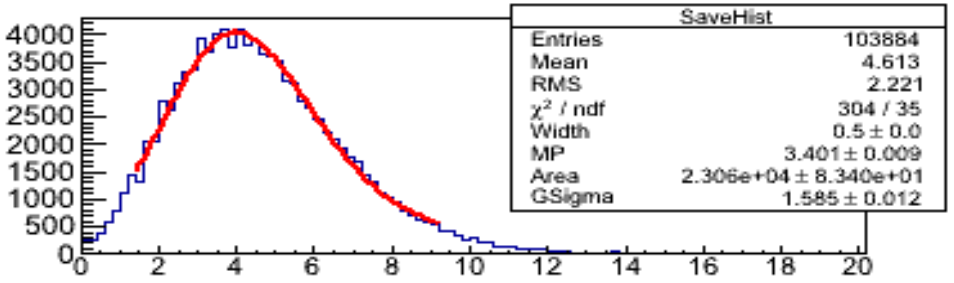
- Files – 2X0, 4Xo, 6Xo, 10Xo, 12Xo are shown and their MPV as a function of Tungsten planes

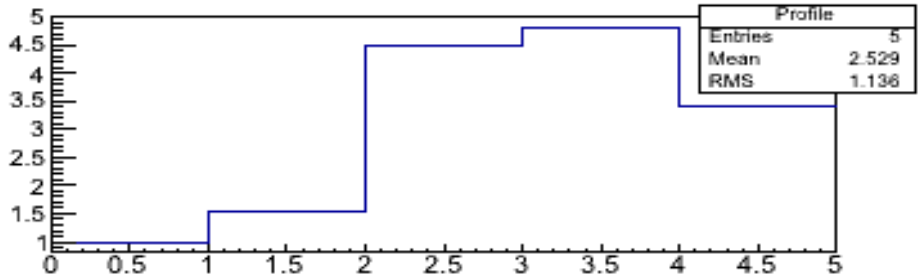
HL Gain











- Divided by 16.6
- Shower development with different gains should repeat, this I'll check.

Conclusions

- Few files 12Xo, 16 Xo are missing.
- Analysis will be repeated for other gains too.
- How to compare with Simulation?
- How the shower is in perpendicular plane?