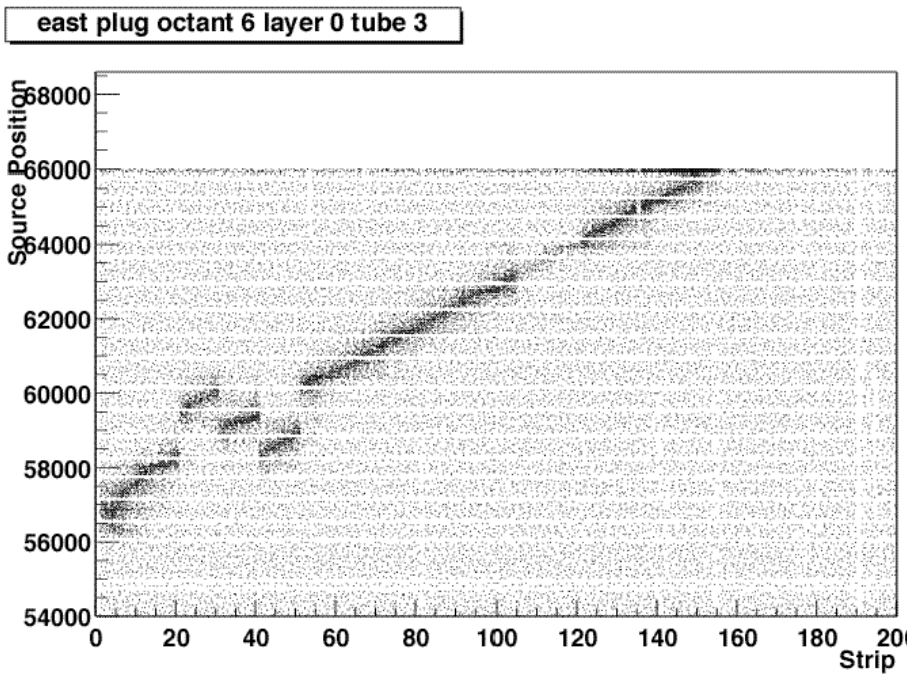
Endplug shower maximum status

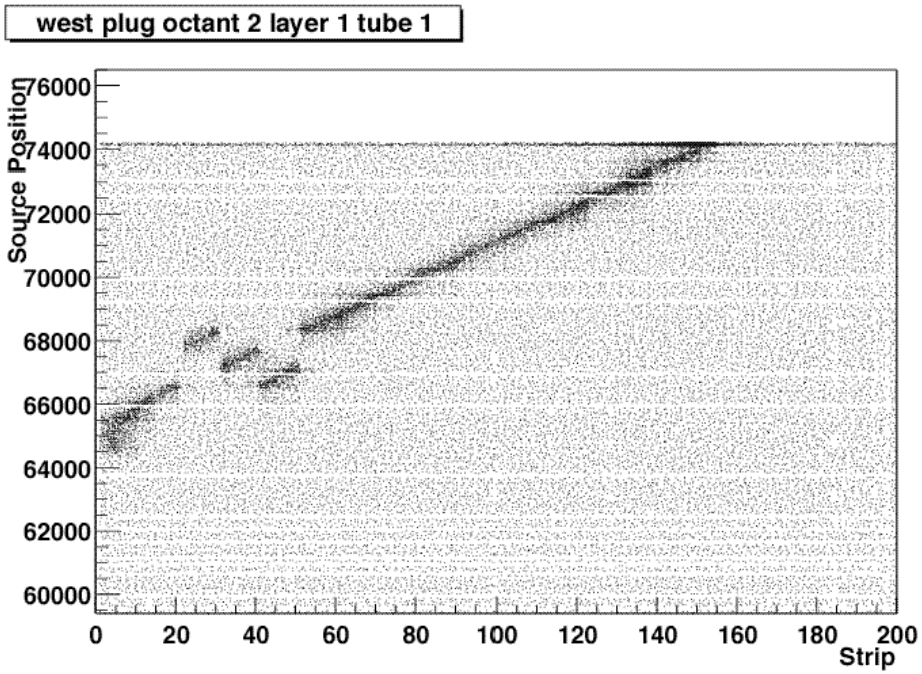
Benn Tannenbaum

Recent changes to the hardware

Alon found two more swapped optical cables

- Fixed in the front end code
- Will fix in software for old data
- Not at decoder box!





Other hardware stuff…

- The plug was sourced on 3 June
  - Problems with source run
  - Don't yet have new calibration constants from that
  - May need new source run
    - Needed to adjust high voltage of (now) unswapped tubes
- Alon is investigating the "broad clusters" effect….

Changes to software

- Nothing yet to report
- Working on using `ReadFastArray` to speed up reading/writing of data, especially `PESQ`
  - Just started Monday….
- Should be ready soon!
  - Perhaps end of week?
  - If goes well, will also use for `PlugStrip` output
- Howard Budd is using test beam data to make a chi-squared test for the PES, but has had a few problems
  - Will implement when ready!

Documentation

Two CDF Notes on PES

- CDF 5782 describes the calibration techniques used for the PES, the various constants in the database, and how to update them
  - Will post later today
- CDF 5783 describes the reconstruction & simulation code for the PES; includes sample code
  - About 2/3 done; should be out in a few weeks