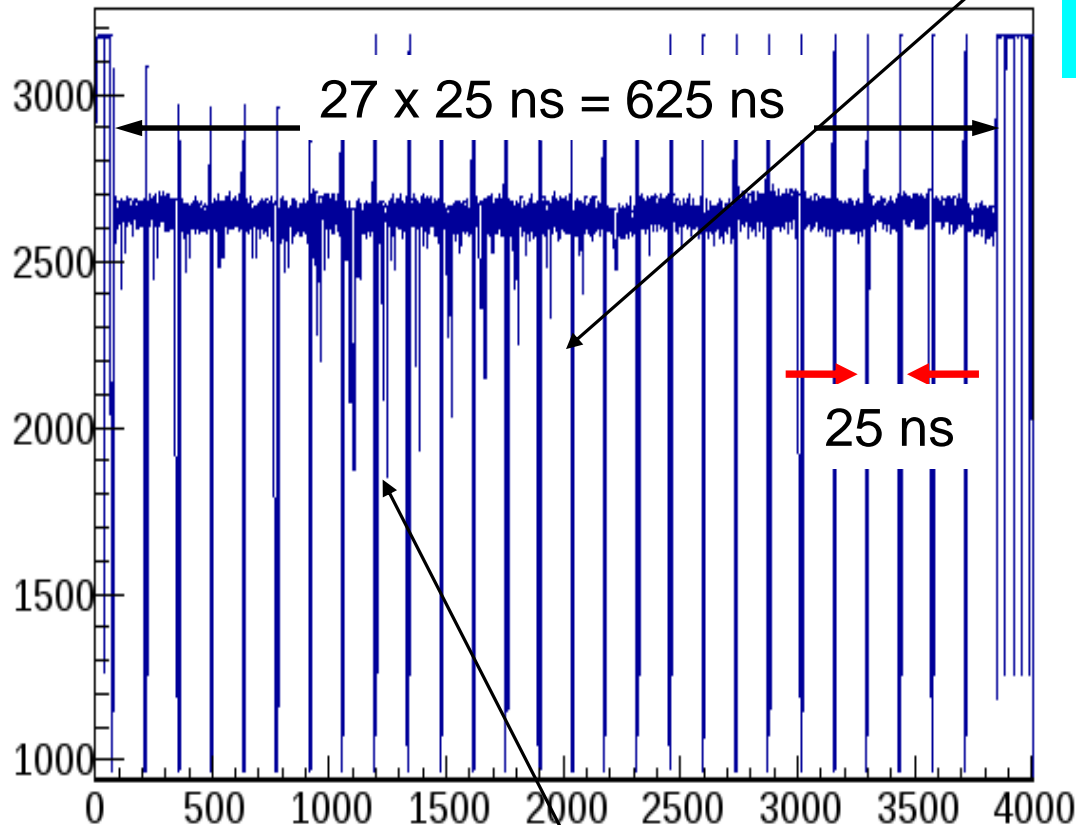


APV25 electronics

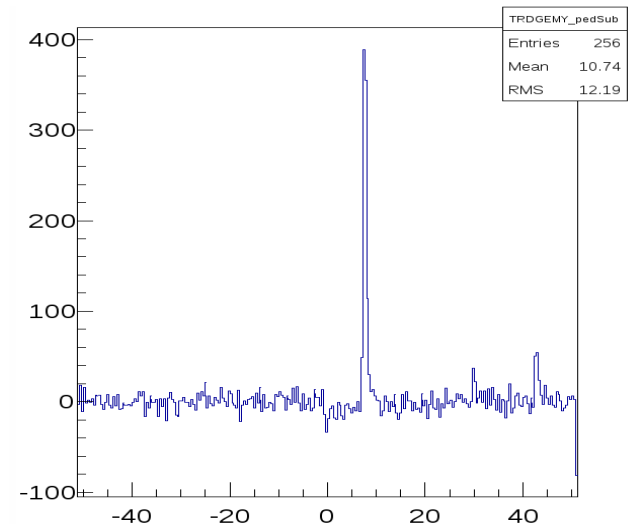
This is **APV-SRS** (not **MPD**) electronics → Raw APV waveform signal points downward

Raw APV data



4 channels with ADC above pedestal
In the time sample where the signal peak is

Decoded data



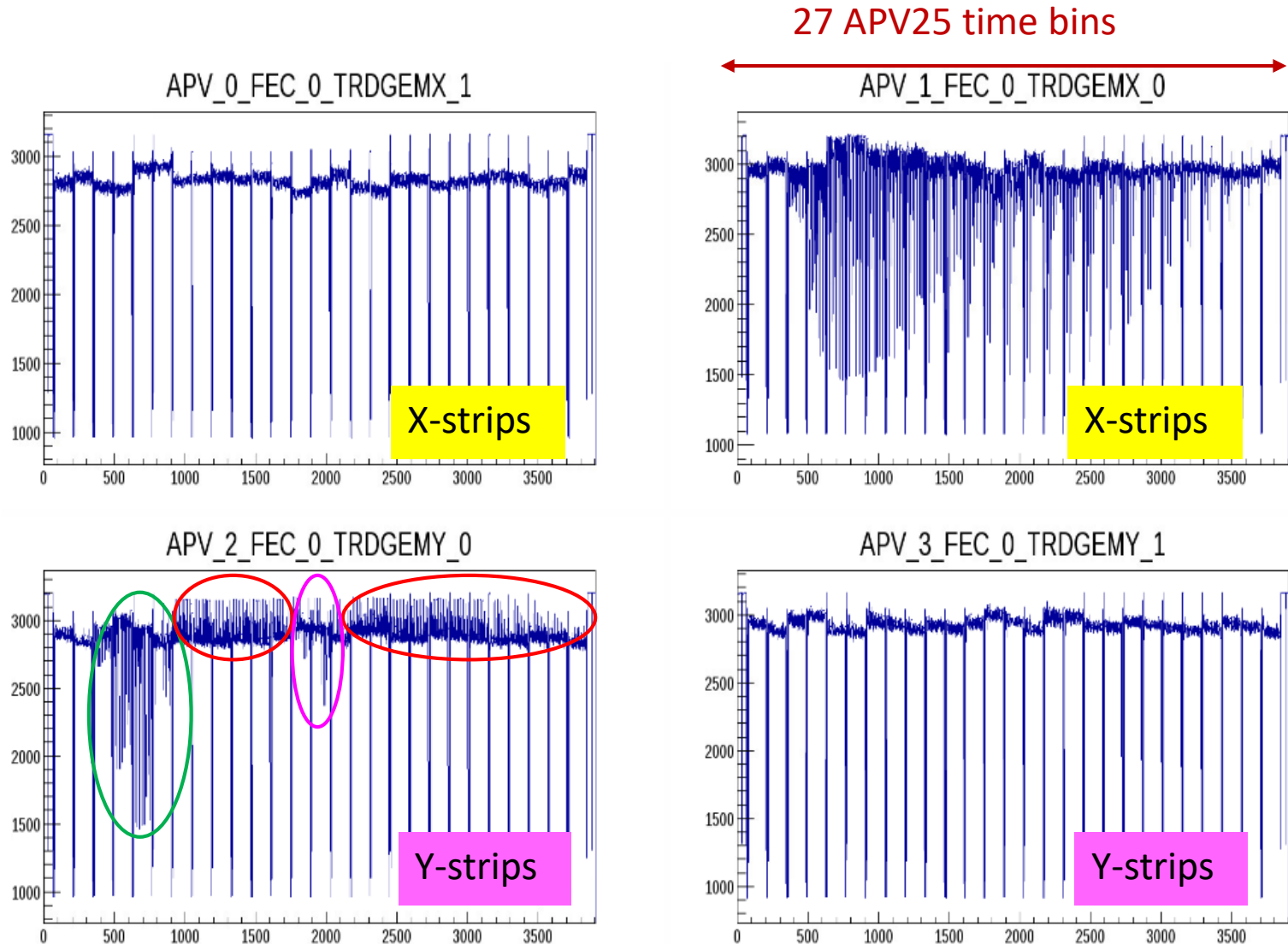
4-strips cluster after decoding

First GEM-TRD signals with Ar / CO₂ (just dE/dx no TR photons)

Few issues to address

❖ For the Y strips, the polarity of the APV25 signal flip

❖ Usually is a sign that there is too **much stress on the HDMI cable** → (It wasn't actually)

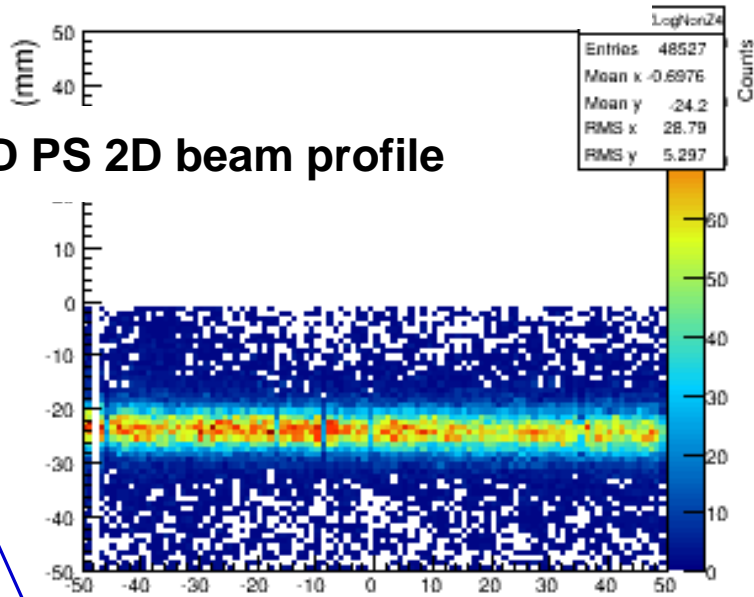


APV25 flip mostly for Y-strips because of how signal hits the detectors

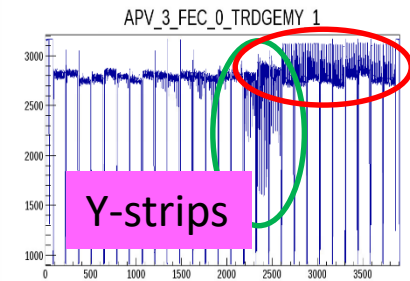
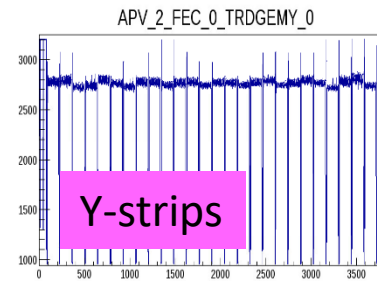
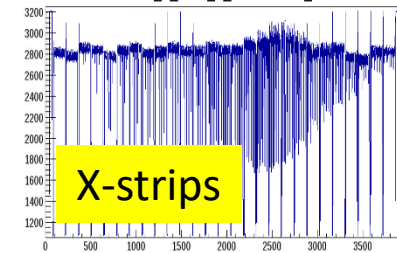
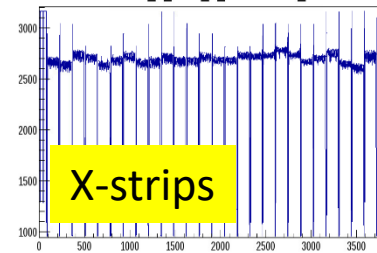
Standard GEM tracker

Hall D PS 2D beam profile

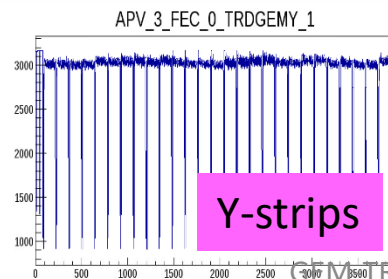
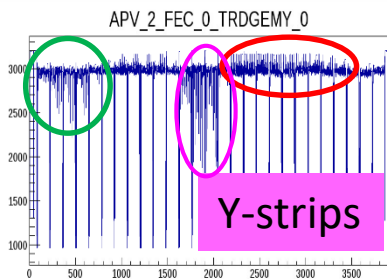
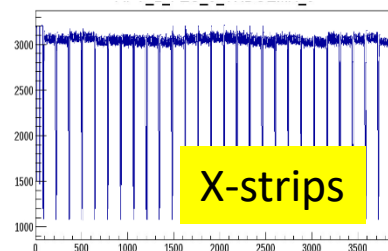
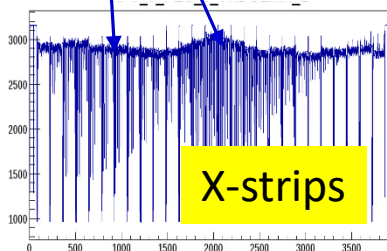
2 dE/dx clusters from
probably the same electron



GEM-TRD event 1



GEM-TRD event 2



GEM-TRD event 3

