EMEC data will contain (in whatever format ...) things like:

General:

miniRODS# gains# samples# FIFO pairs

For each event:

FIFO channel pattern miniROD crate number minROD board number Capacitor number

ADC number

For each sample: 8*#gain words

EMEC readout cells (from ATL-AL-ES-0004)

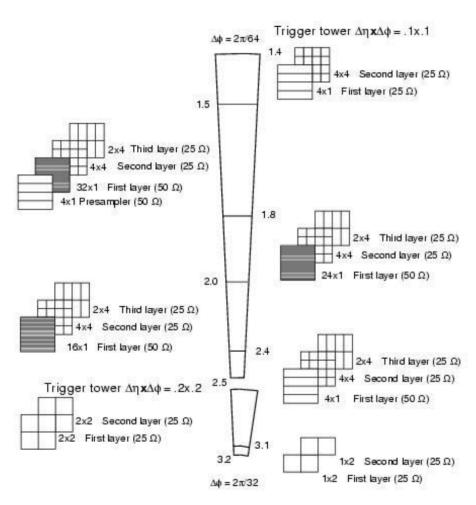


Figure 2: Granularity of a trigger tower in the EM end-cap calorimeter. This pattern repeats itself in azimuth. Note the change of granularity above 2.5 in rapidity.

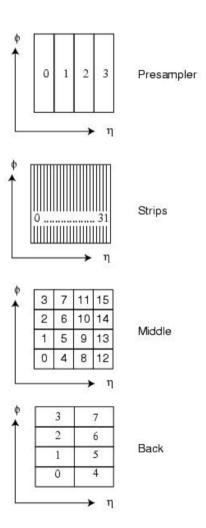
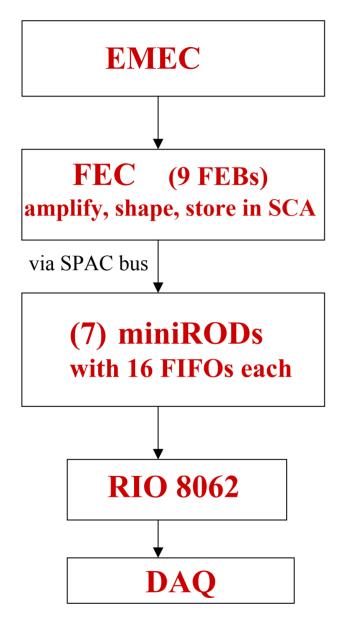


Figure 11: Cell numbering inside of a trigger tower.



Up to 4 "Layers": PS, Front, Middle, Back

128 channels/ FEboard (FEB, TTB, Cal)

- 2 gains (sets of samples) / channel: med, high (ATLAS - 3gains: 1:9.2:92)
- 5 samples/channle digitized on FEB

Each miniROD: 16 FIFOs

Each FIFO: 8 channels

Reads and stores data

At the end of burst,: all events are stored in miniRODs and emptied by RIO processor. (RIO is used for multiple miniROD readout)

MRA (miniRODAcquisition) is controlled by DAQ via control flags in RIO internal memory + accessed via VIC modules.

