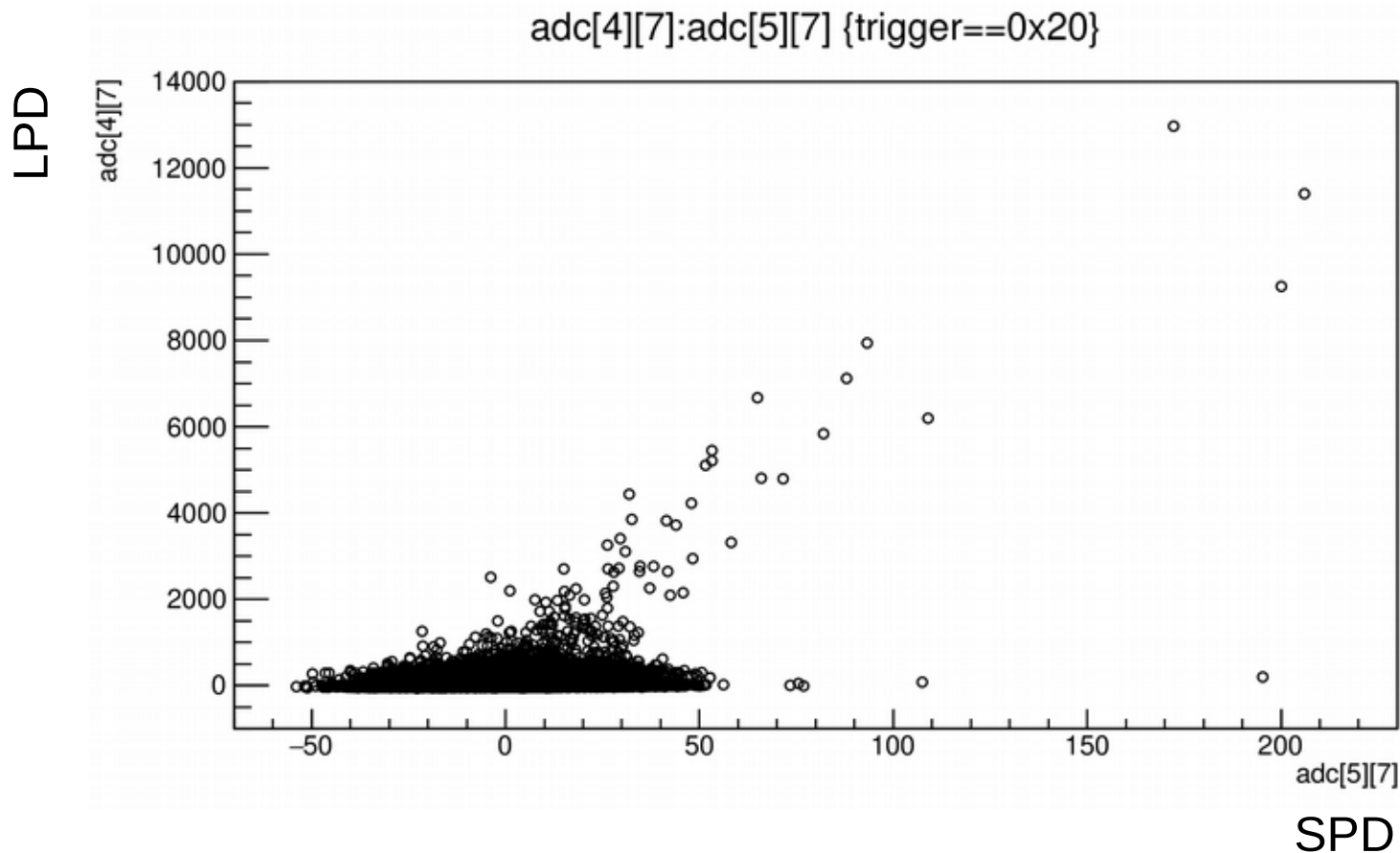


# Showers in Cosmic Rays

Eugenio, Lorenzo, Pietro  
14 May 2021

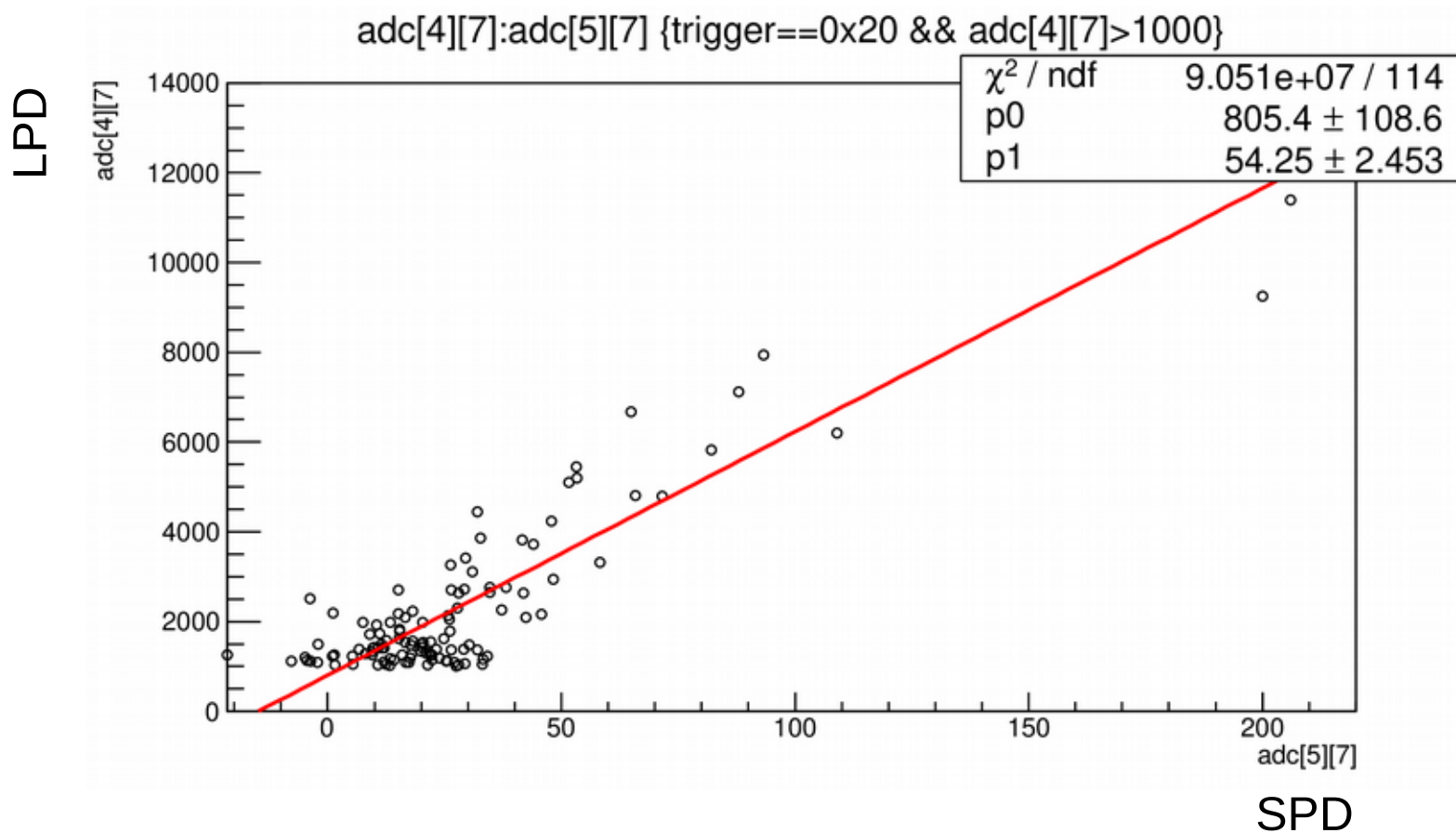
# Central Cube - Layer 1

In cosmic rays muons acquisition **in the laboratory** there are some high energy events!

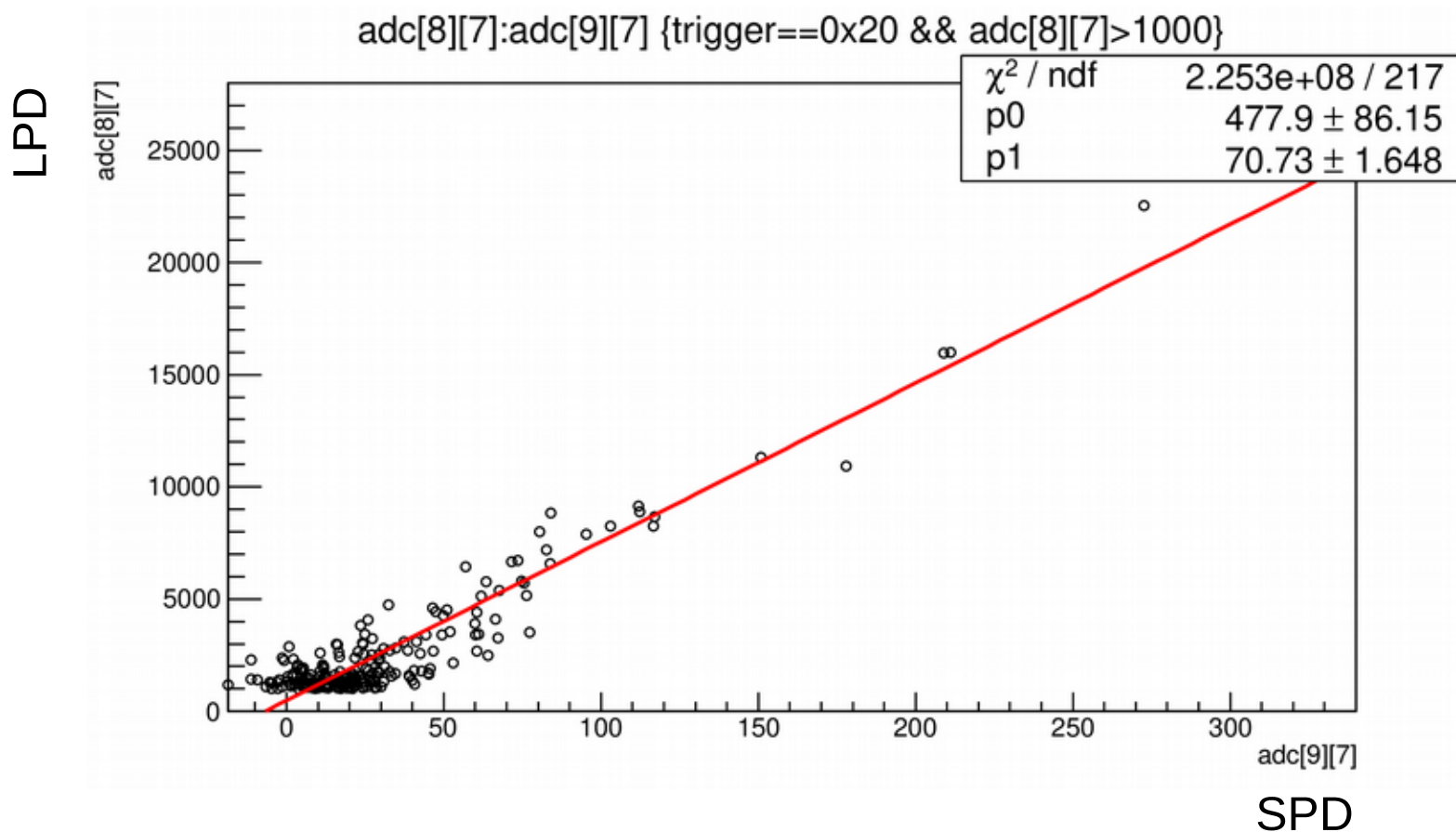


This file corresponds to one week continuous data taking for detector calibration.

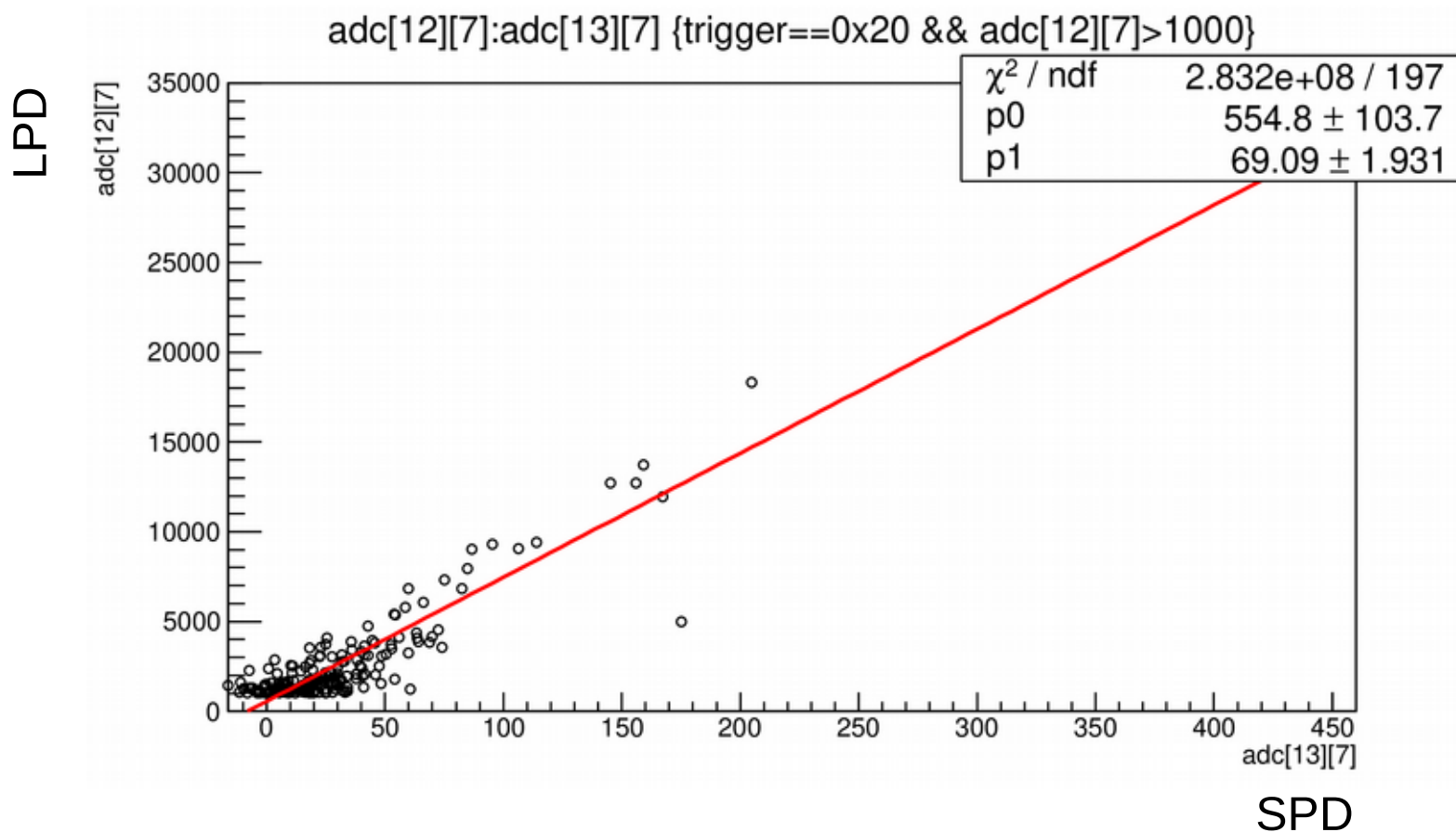
# Central Cube - Layer 1



# Central Cube - Layer 2

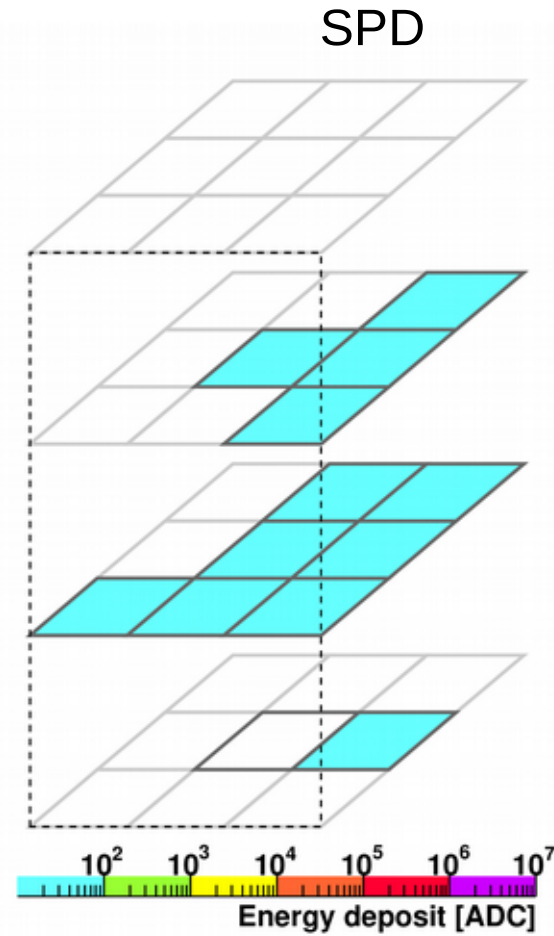
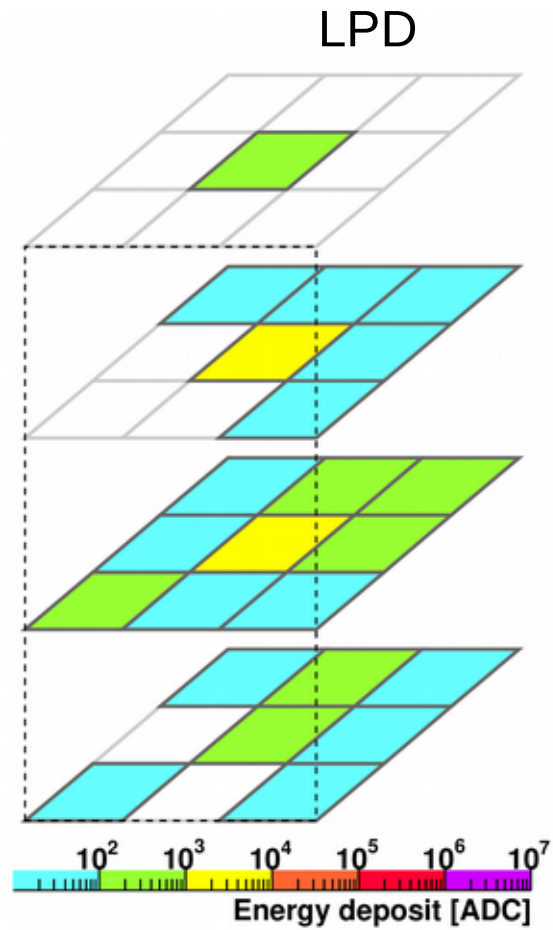


# Central Cube - Layer 3



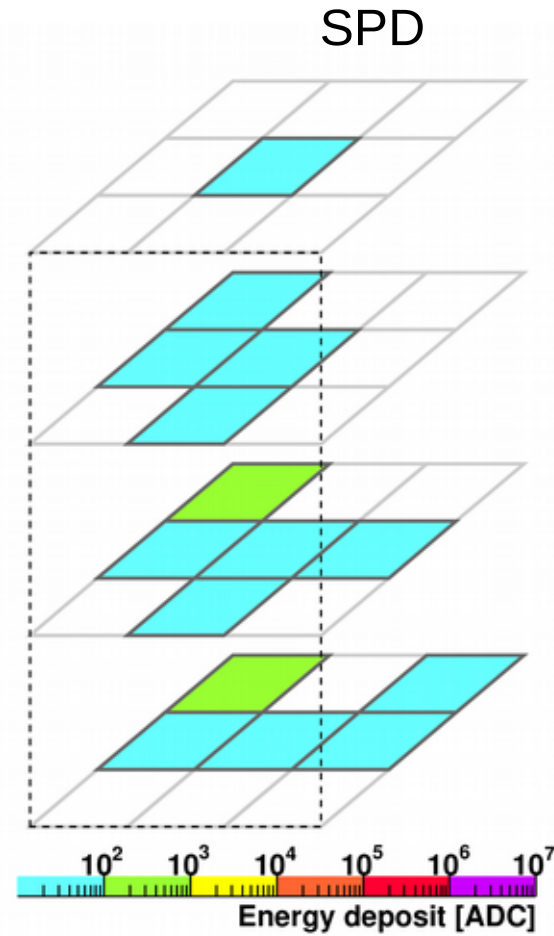
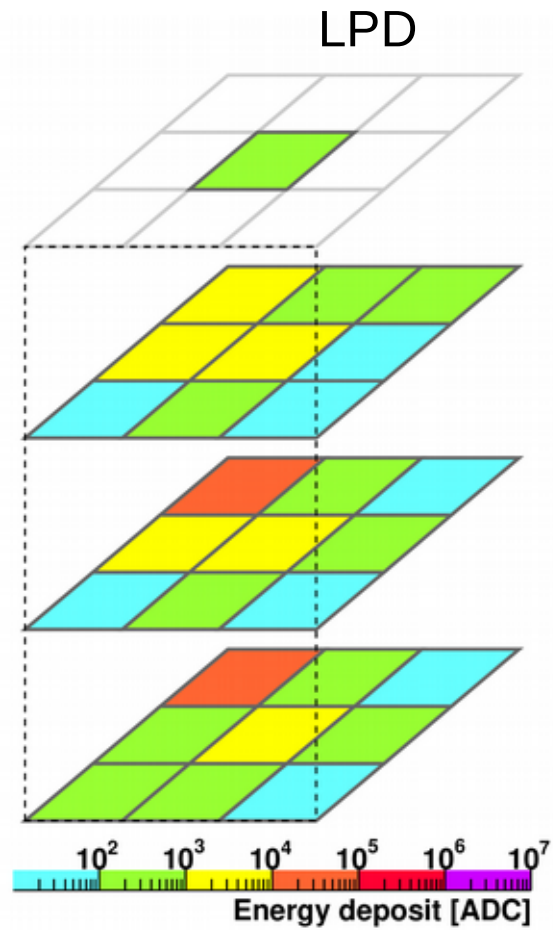
# Some events

NB: Layer 0  
contains only  
the central cube



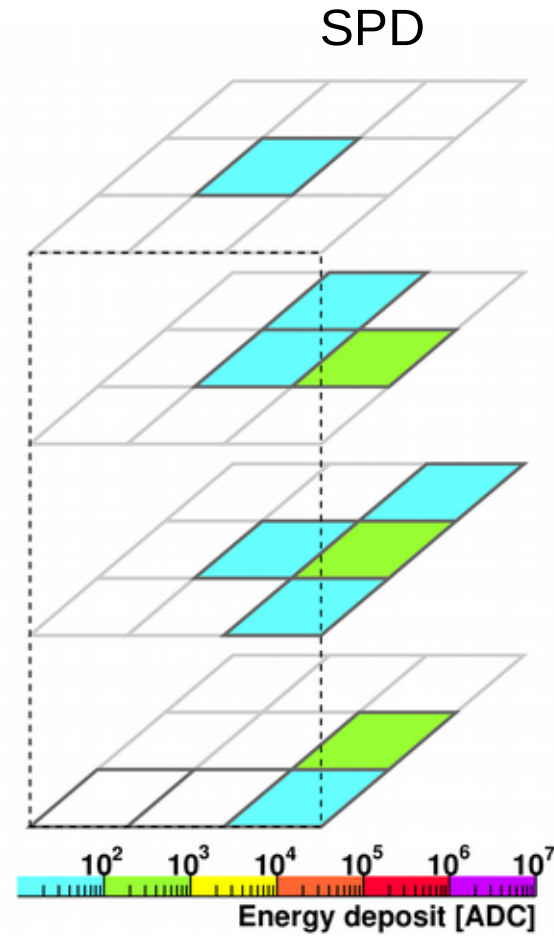
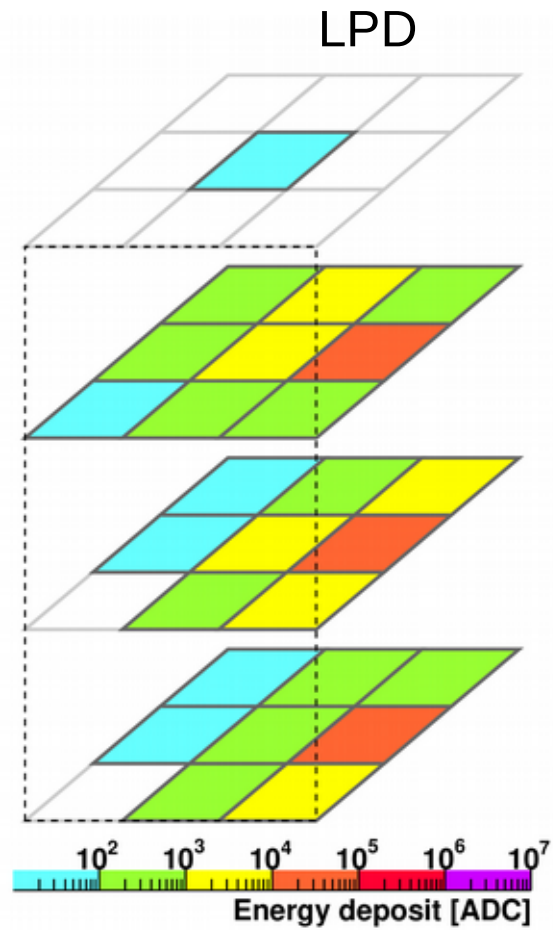
# Some events

NB: Layer 0  
contains only  
the central cube



# Some events

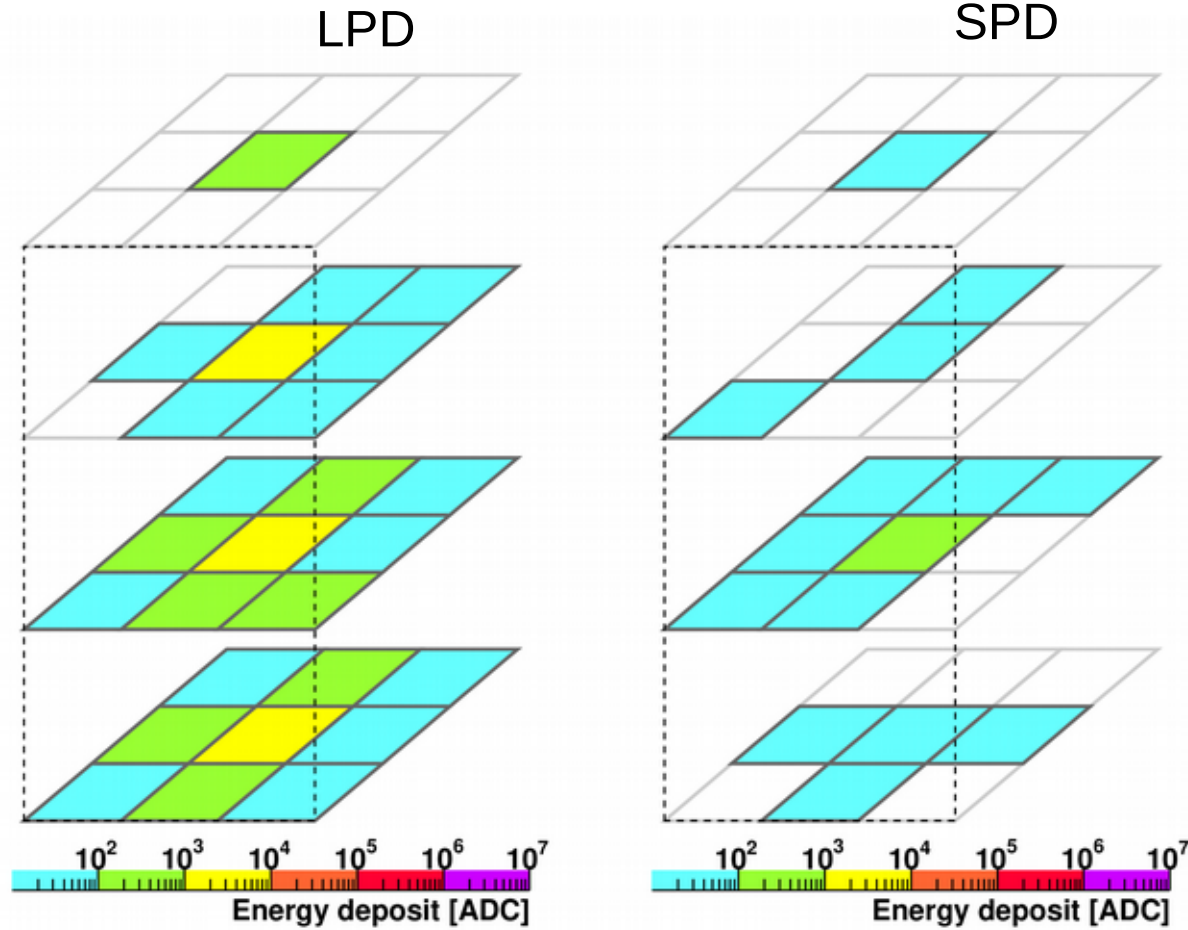
NB: Layer 0  
contains only  
the central cube





# Some events

NB: Layer 0  
contains only  
the central cube



# Summary

- Originally we thought to install the detector on the roof to cross calibrate the sensor gains using showers...
- ...but being possible to perform this measurement in the laboratory it is much easier to do!
- When we receive the additional TROC1 we can start data taking with our small prototype
- If possible, we would like to insert four additional cubes to make this measurement with new package