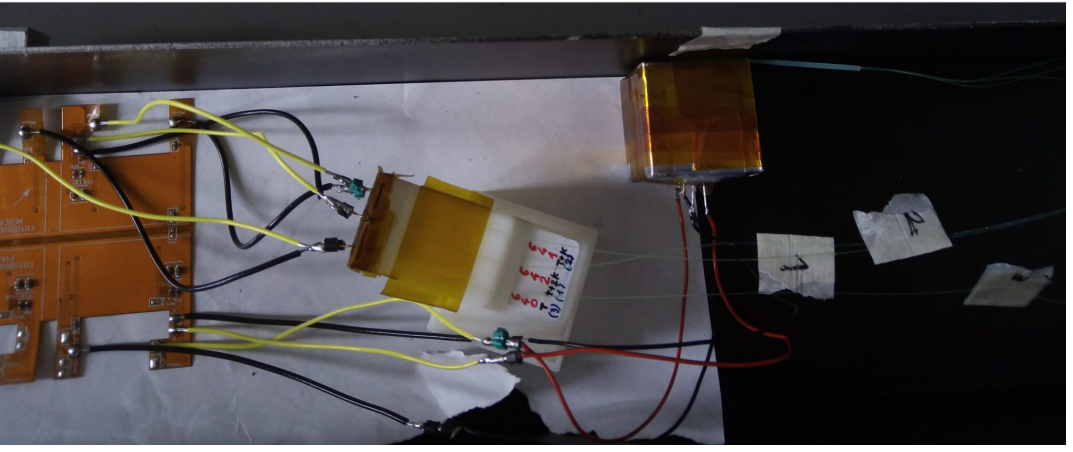
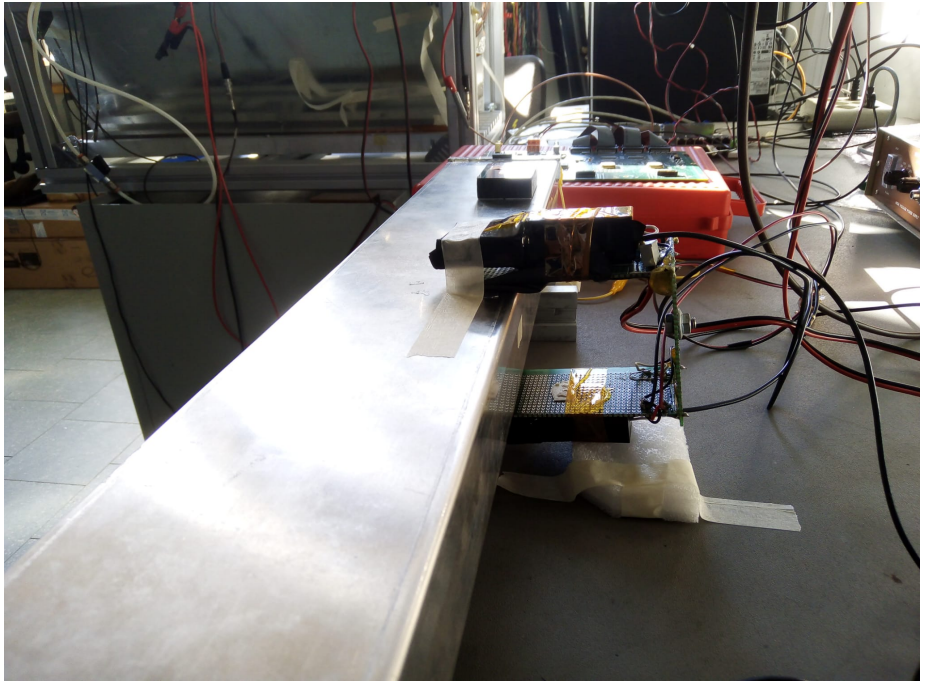
Measure of MIP

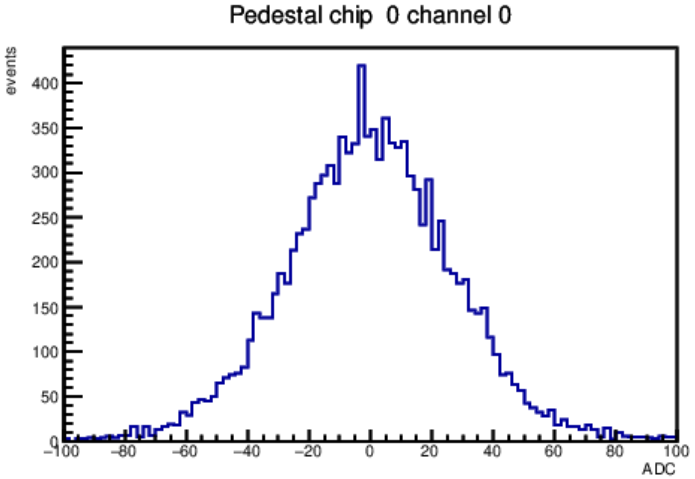
ESTIMATE THE RATIO SPD/LPD



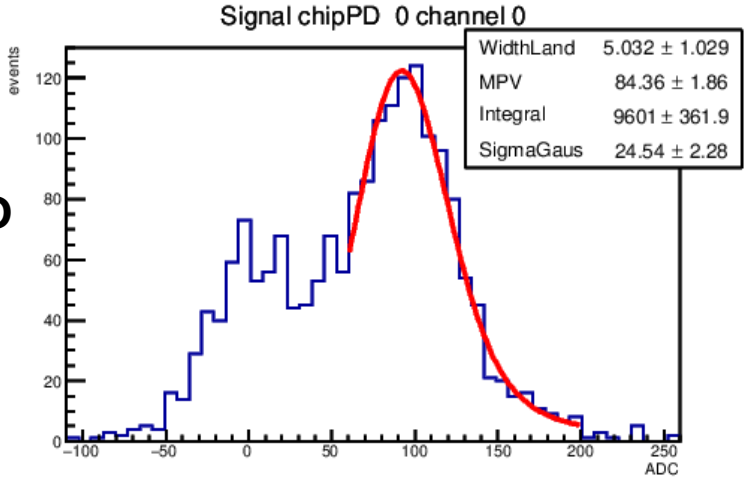


Package with dead area covered with vikuiti on lyso crystal.
PD connected to the kapton cable.
Lyso crystal and scolopendra inside a faraday cage.
Scintillator trigger to select physic event.

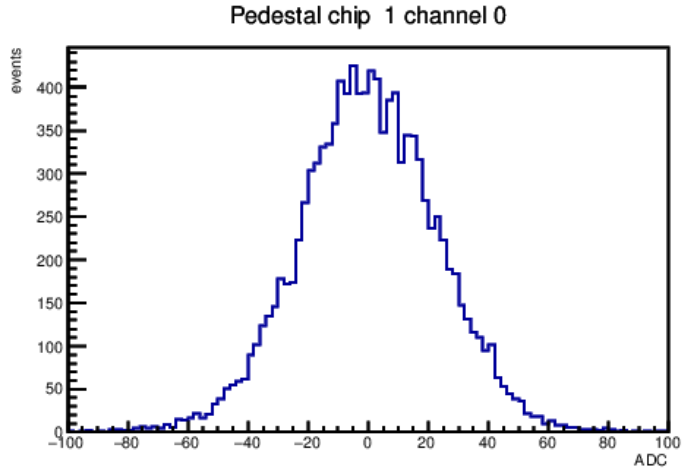
Fit method



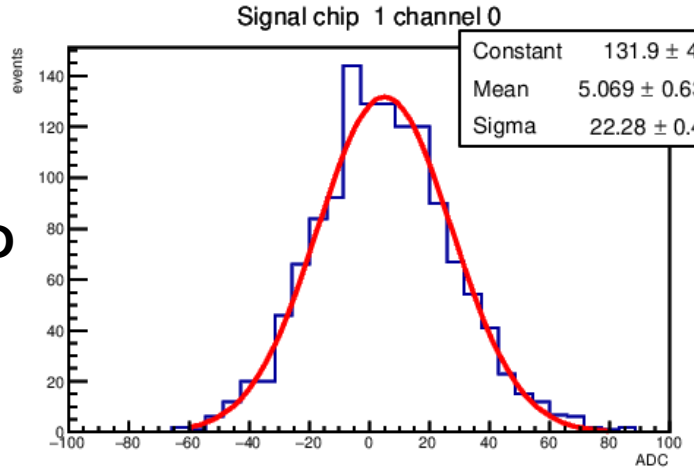
LPD



Fit with a convolution of a gaussian and a Landau distibution. We use the MPVconv.



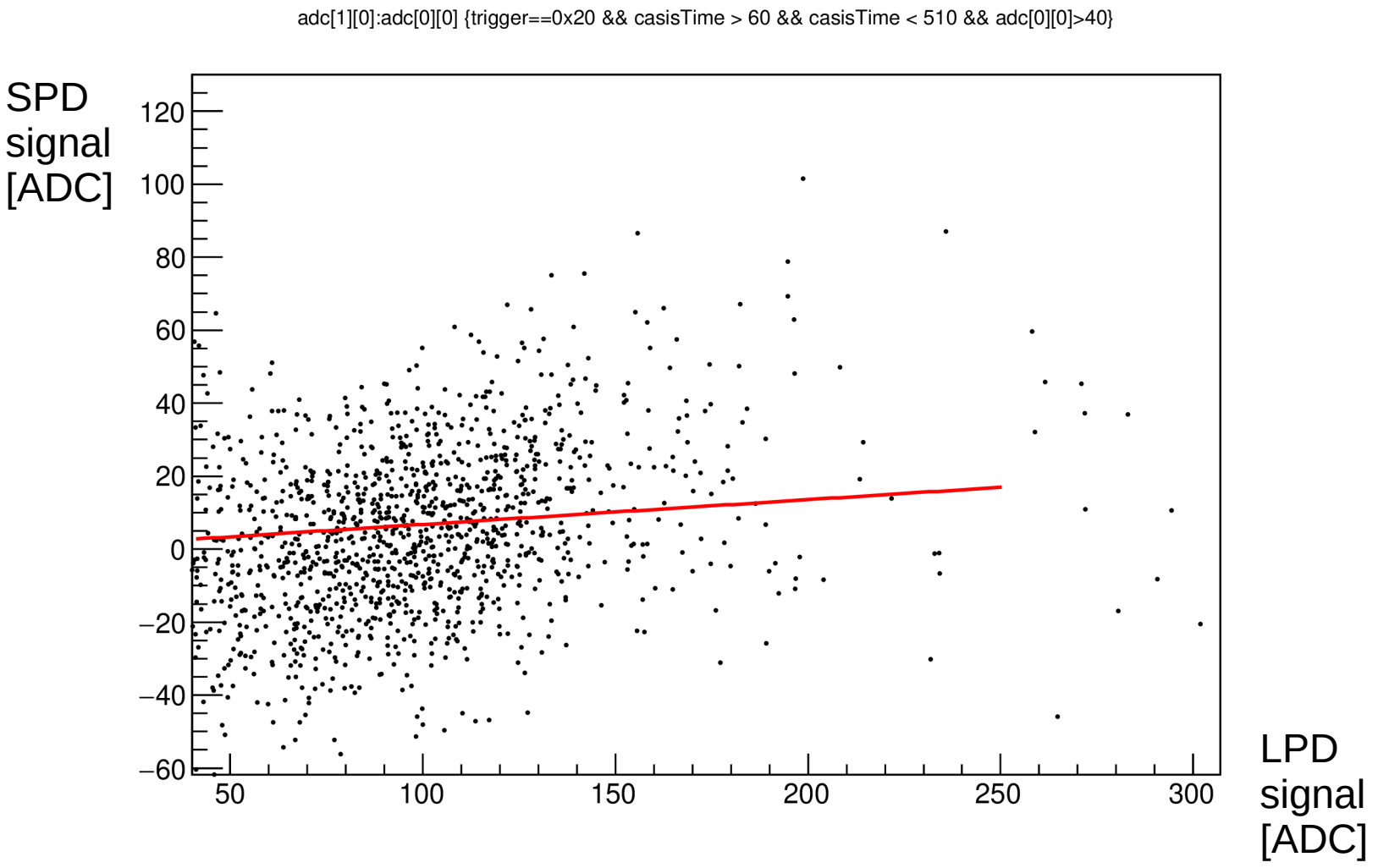
SPD

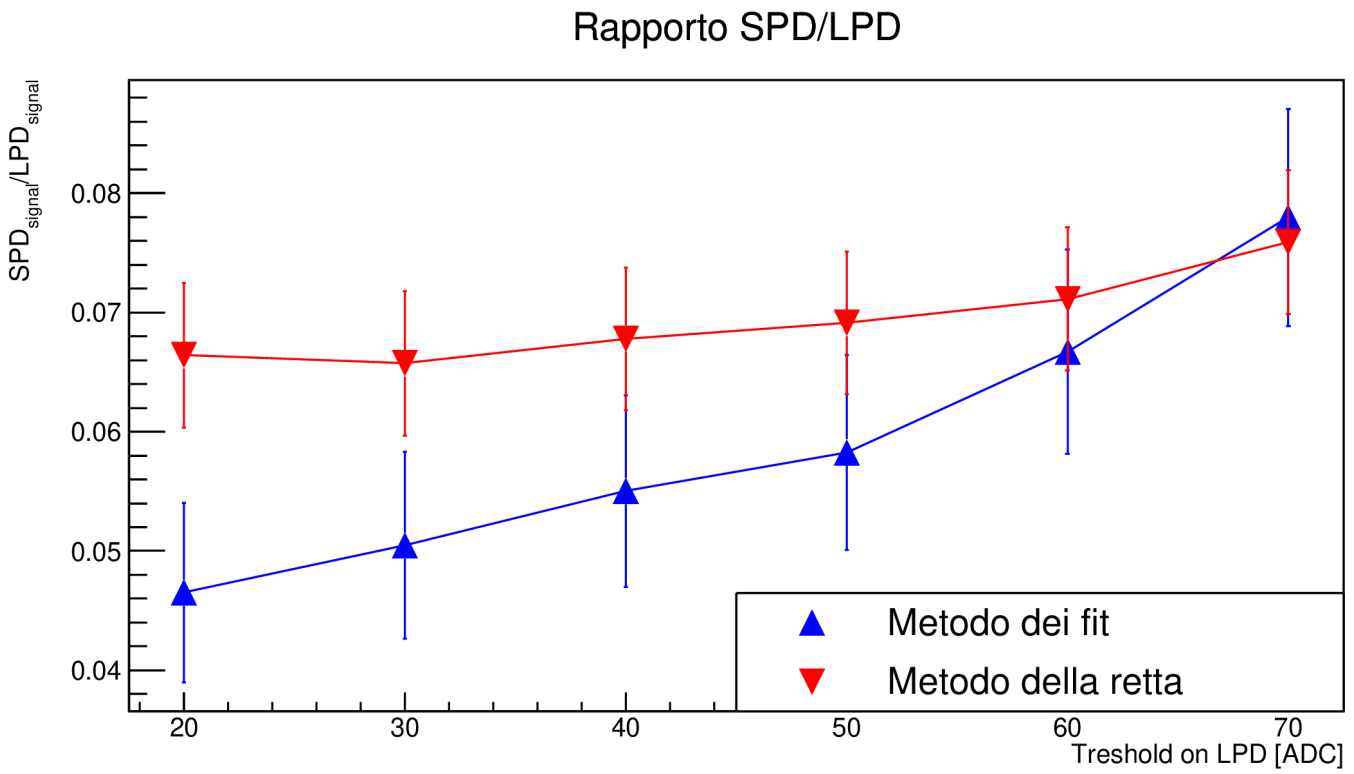


In making this histograms we consider only the events where the LPD gives a signal bigger than a chosen threshold.

Fit with a gaussian. We use the Mean.

Pol1 method


adc[1][0]:adc[0][0] {trigger==0x20 && casisTime > 60 && casisTime < 510 && adc[0][0]>40}
SPD signal [ADC]
120
100
80
60
40
20
0
−20
−40
−60
50
100
150
200
250
300
LPD signal [ADC]



Main problems:

- Results of the pol1 method depend on the rms of the channel
- In the fit method we used different functions for LPD and SPD
- Big dipendence of SPD signal on the threshold