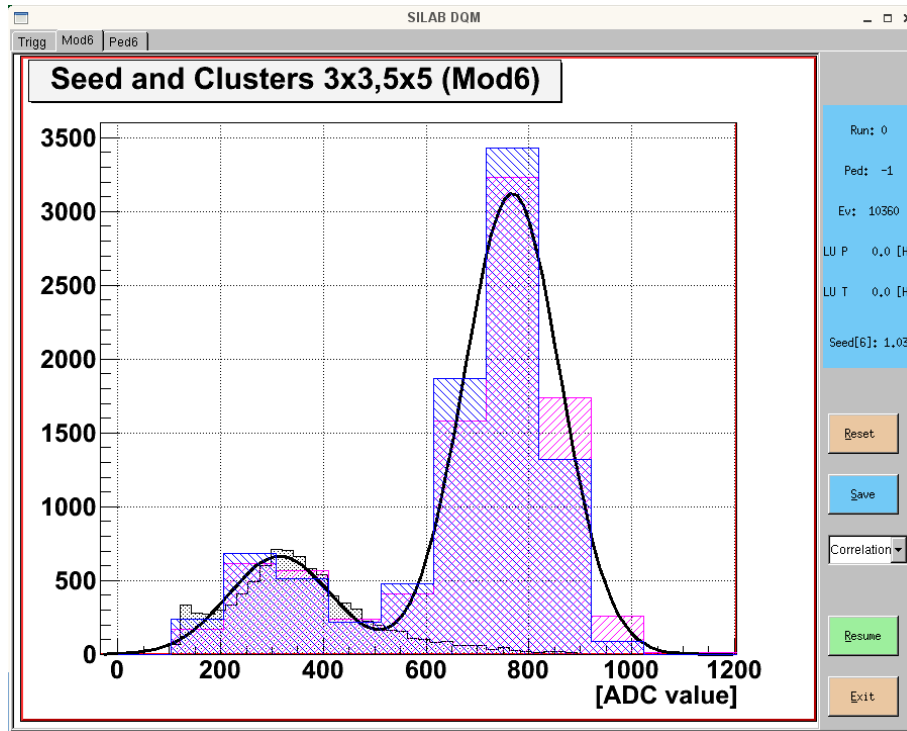
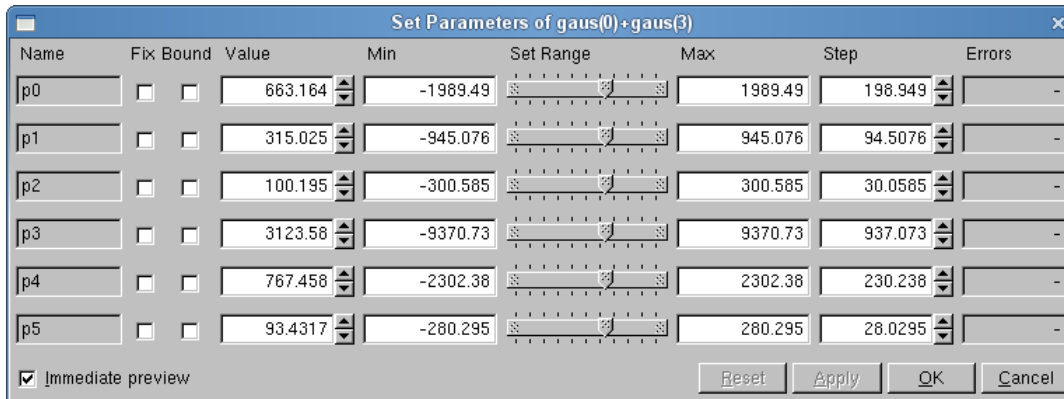


## Results of the run with Am241 from Bonn

Following plot was done without any DEPFET matrix cover. Collected number of events: 10360



Parameters:

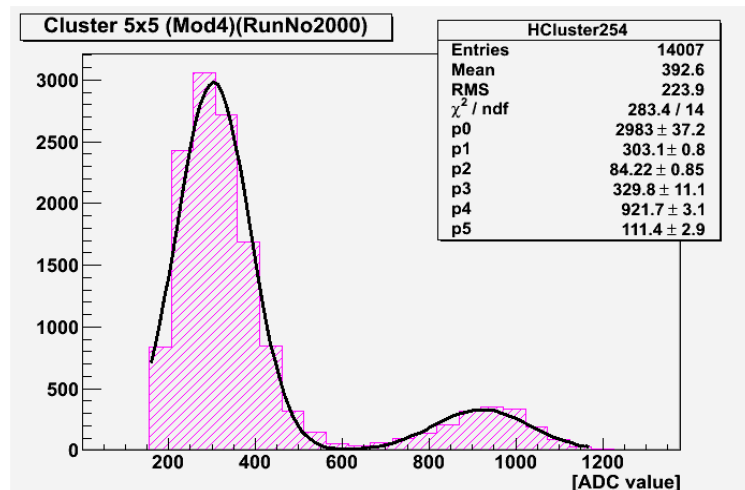


So, first peak is around 315 ADC and less than second one at 767 ADC units.

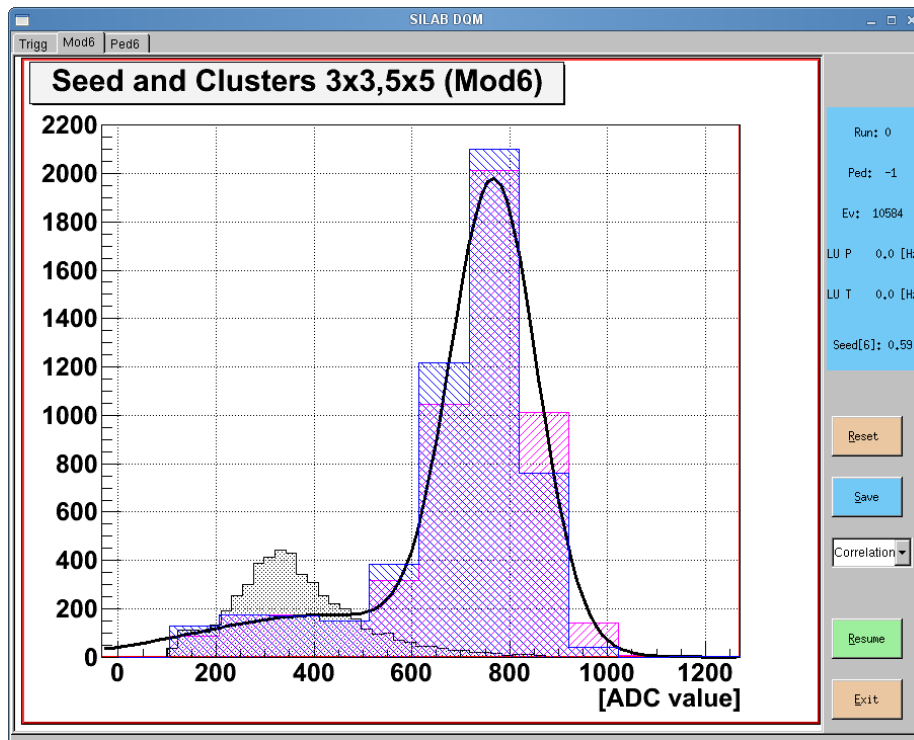
Ratio  $p_4/p_1$  (peak position in ADC units) = 2.44

Ratio  $p_3/p_0$  (peaks' constants proportion) = 4.71

Am241 spectrum parameters for Santiago matrix: 3.04 and 0.11 respectively



Run with 3mm Al cover. Number of events: 10584



Parameters:

Name	Fix	Bound	Value	Min	Set Range	Max	Step	Errors
p0	<input type="checkbox"/>	<input type="checkbox"/>	173.793	-521.378		521.378	52.1378	-
p1	<input type="checkbox"/>	<input type="checkbox"/>	415.191	-1245.57		1245.57	124.557	-
p2	<input type="checkbox"/>	<input type="checkbox"/>	247.91	-743.731		743.731	74.3731	-
p3	<input type="checkbox"/>	<input type="checkbox"/>	1917.79	-5753.38		5753.38	575.338	-
p4	<input type="checkbox"/>	<input type="checkbox"/>	767.647	-2302.94		2302.94	230.294	-
p5	<input type="checkbox"/>	<input type="checkbox"/>	88.1784	-264.535		264.535	26.4535	-

Immediate preview

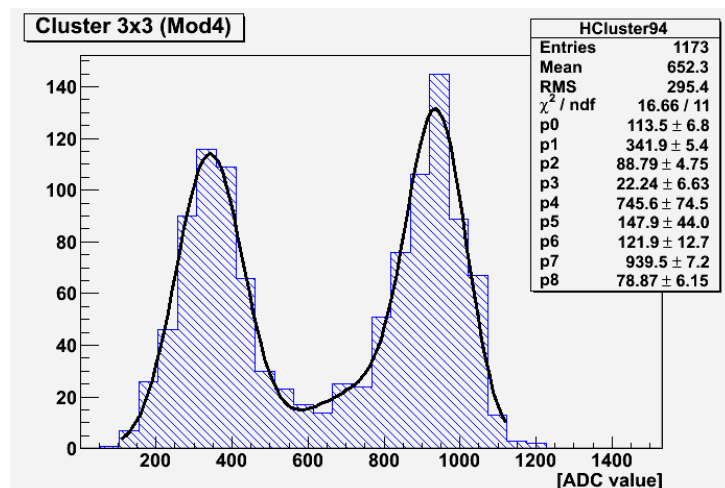
Buttons: Reset, Apply, OK, Cancel

Second peak is in the same position – 767 ADC. 415 ADC position of the first peak is not correct. As the peak is very small, it is necessary to analyze it separately from the second one.

Ratio p4/p1 (peak position in ADC units) = 1.84

Ratio p3/p0 (peaks' constants proportion) = 11.03

Santiago spectrum for the same conditions: 2.74 and 1.07 respectively



DEPFET matrix at Bonn

