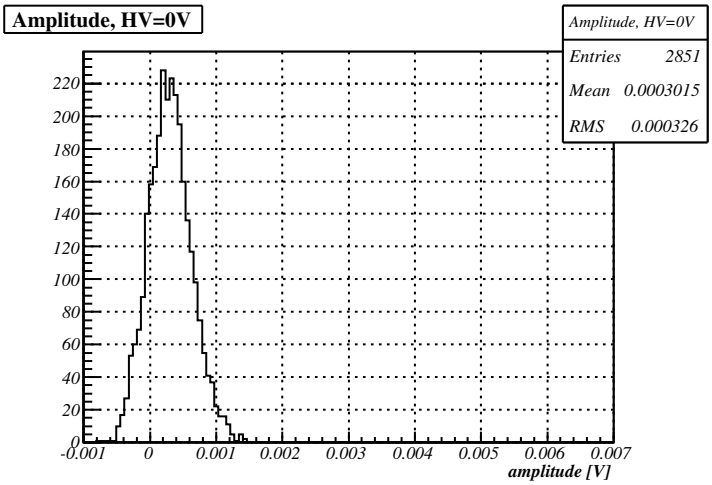
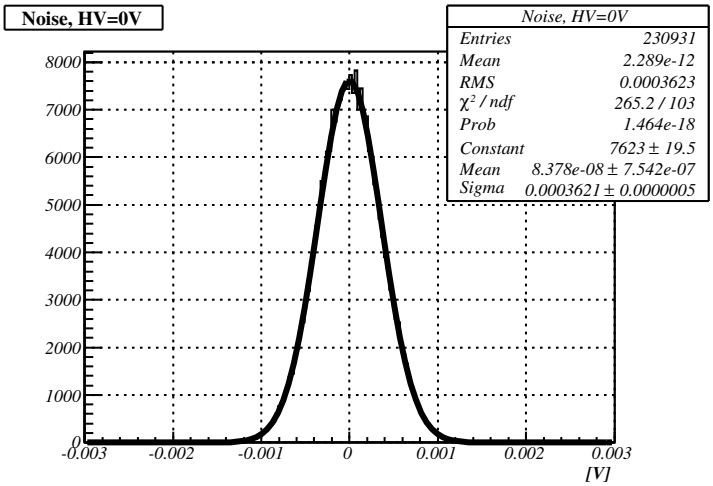
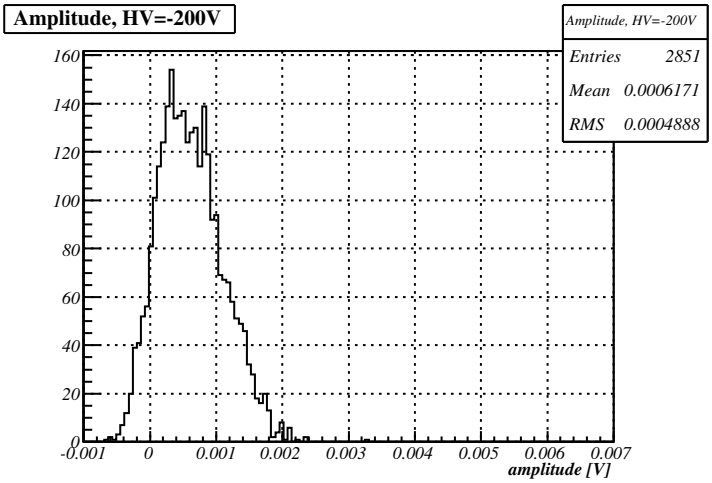
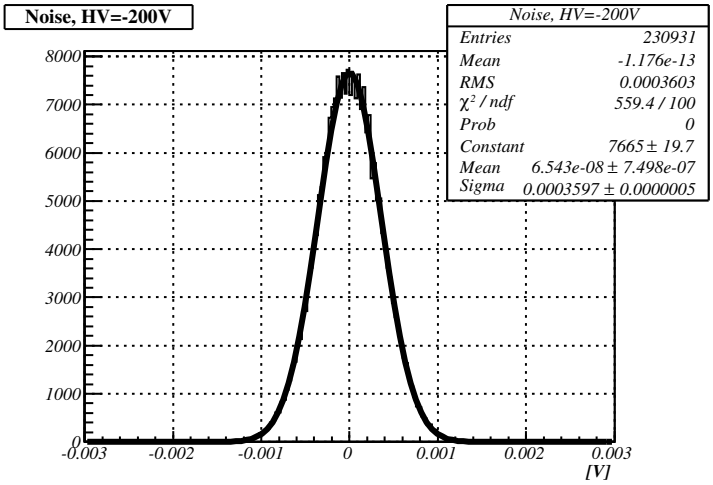
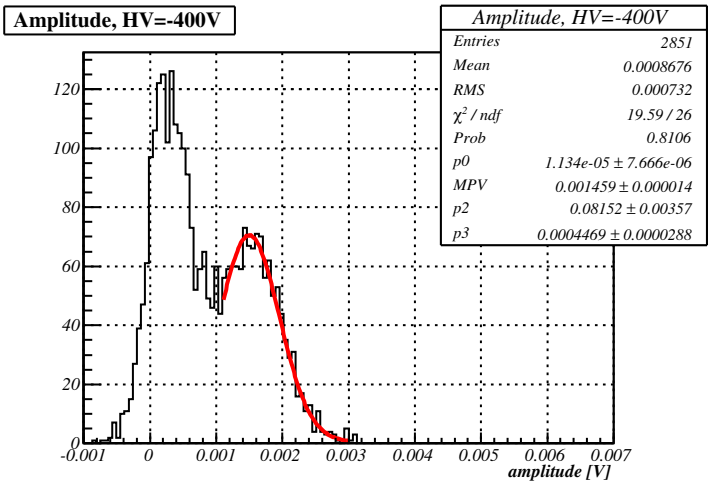
Fotec Box 404, (A230-9 and A422-6), Measurement 3 (BWL 200MHz)

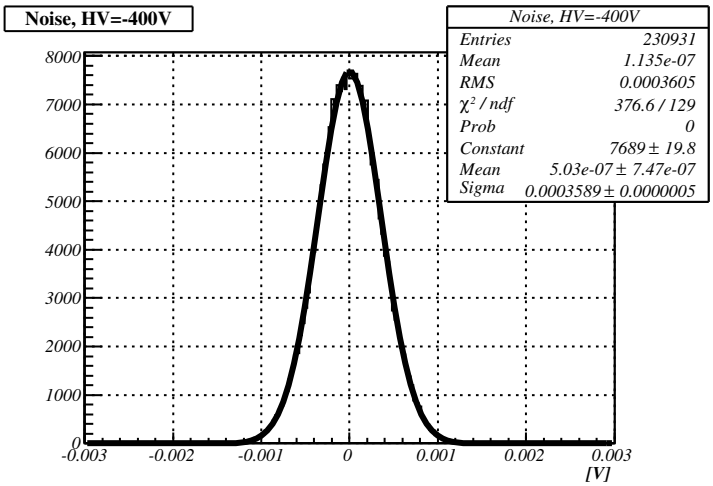


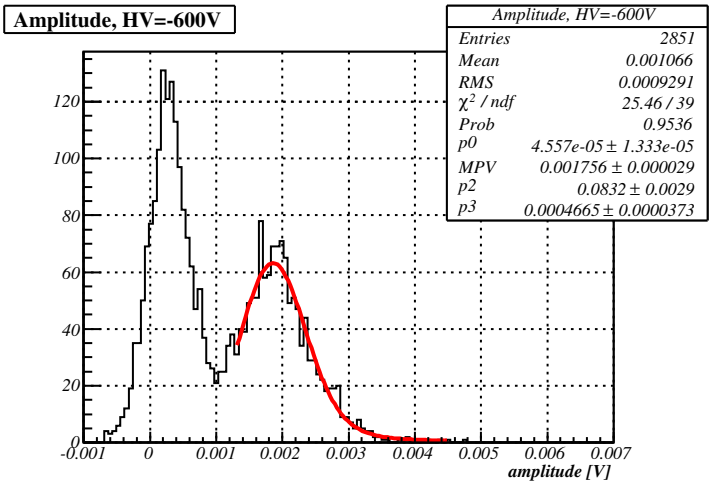


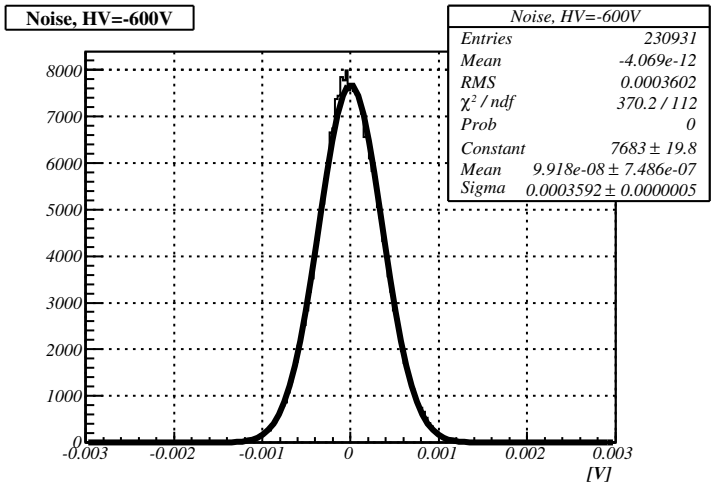


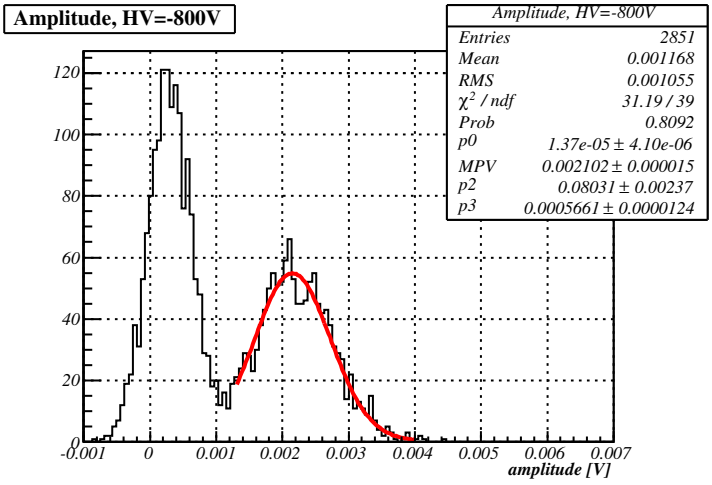


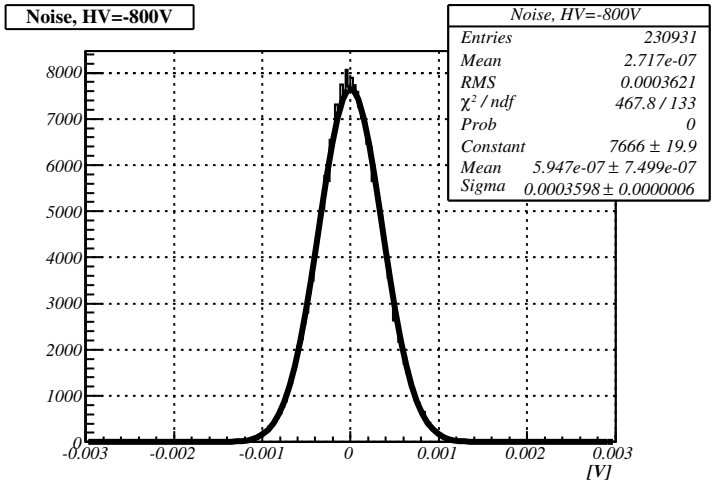


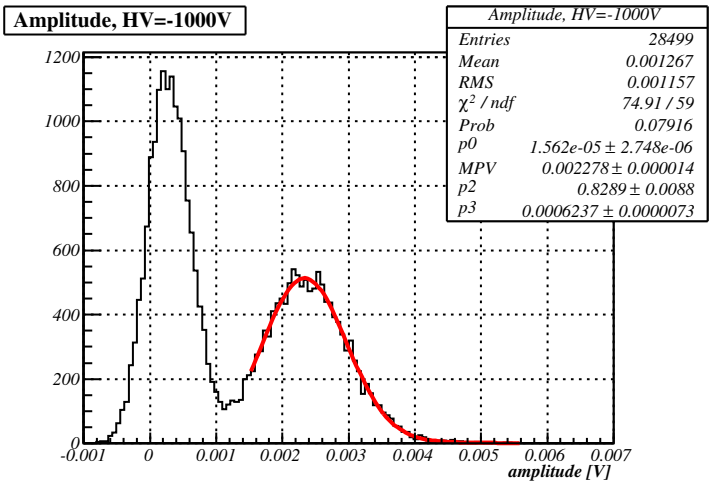


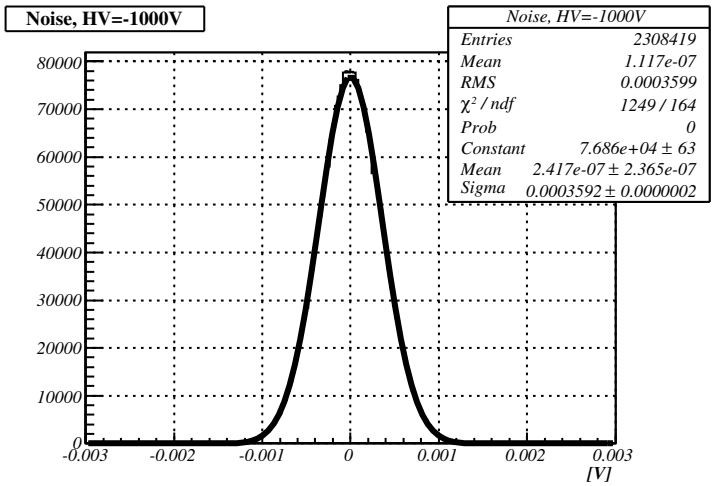

Amplitude, HV=-600V
Amplitude, HV=-600V
Entries 2851
Mean 0.001066
RMS 0.0009291
χ² / ndf 25.46 / 39
Prob 0.9536
p0 4.557e-05 ± 1.333e-05
MPV 0.001756 ± 0.000029
p2 0.0832 ± 0.0029
p3 0.0004665 ± 0.0000373
amplitude [V]


Noise, HV=-600V
Noise, HV=-600V
Entries 230931
Mean -4.069e-12
RMS 0.0003602
χ² / ndf 370.2 / 112
Prob 0
Constant 7683 ± 19.8
Mean 9.918e-08 ± 7.486e-07
Sigma 0.0003592 ± 0.0000005
[V]

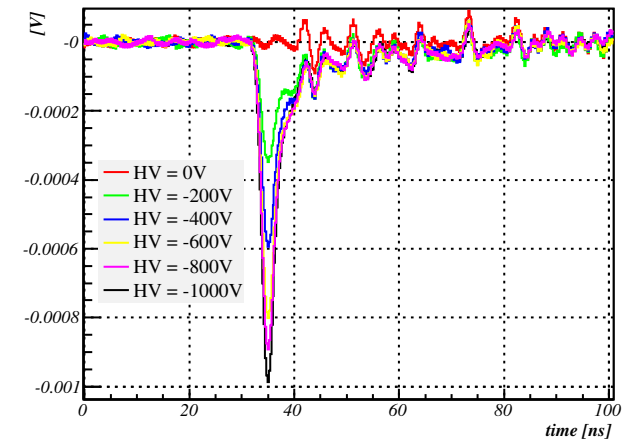

Amplitude, HV=-800V
Amplitude, HV=-800V
Entries 2851
Mean 0.001168
RMS 0.001055
χ² / ndf 31.19 / 39
Prob 0.8092
p0 1.37e-05 ± 4.10e-06
MPV 0.002102 ± 0.000015
p2 0.08031 ± 0.00237
p3 0.0005661 ± 0.0000124
amplitude [V]

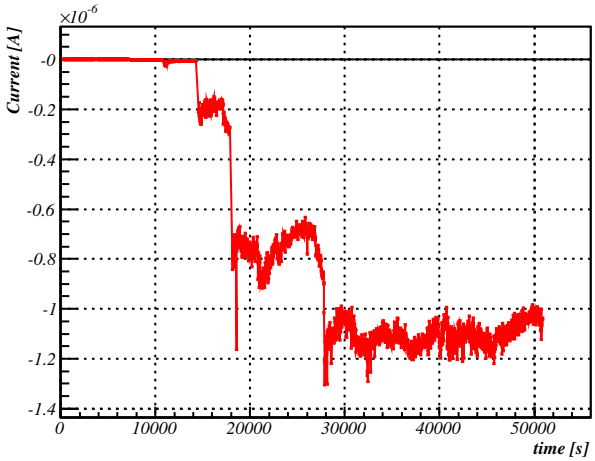

Noise, HV=-800V
Noise, HV=-800V
Entries 230931
Mean 2.717e-07
RMS 0.0003621
χ² / ndf 467.8 / 133
Prob 0
Constant 7666 ± 19.9
Mean 5.947e-07 ± 7.499e-07
Sigma 0.0003598 ± 0.0000006
[V]


Amplitude, HV=-1000V
Amplitude, HV=-1000V
Entries 28499
Mean 0.001267
RMS 0.001157
χ² / ndf 74.91 / 59
Prob 0.07916
p0 1.562e-05 ± 2.748e-06
MPV 0.002278 ± 0.000014
p2 0.8289 ± 0.0088
p3 0.0006237 ± 0.0000073
amplitude [V]

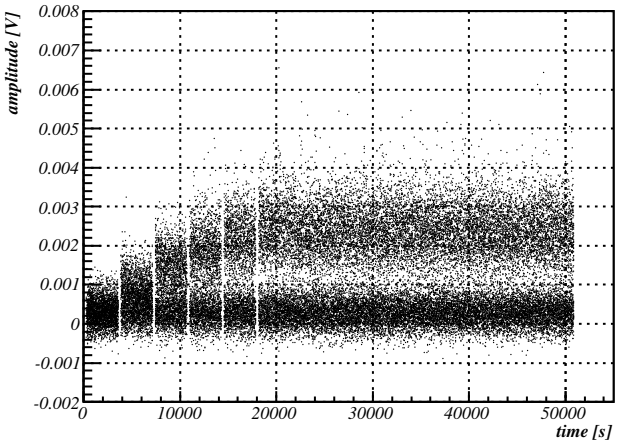

Noise, HV=-1000V
Noise, HV=-1000V
Entries 2308419
Mean 1.117e-07
RMS 0.0003599
χ² / ndf 1249 / 164
Prob 0
Constant 7.686e+04 ± 63
Mean 2.417e-07 ± 2.365e-07
Sigma 0.0003592 ± 0.0000002
[V]

Average event

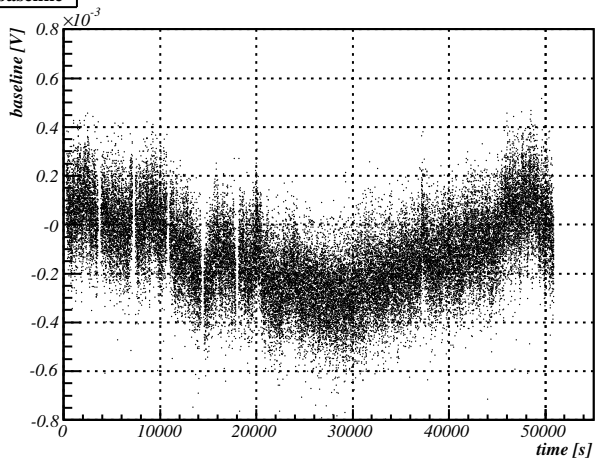




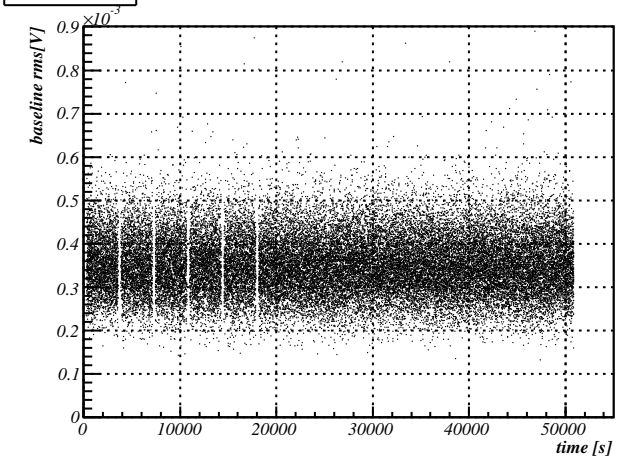
amplitudes



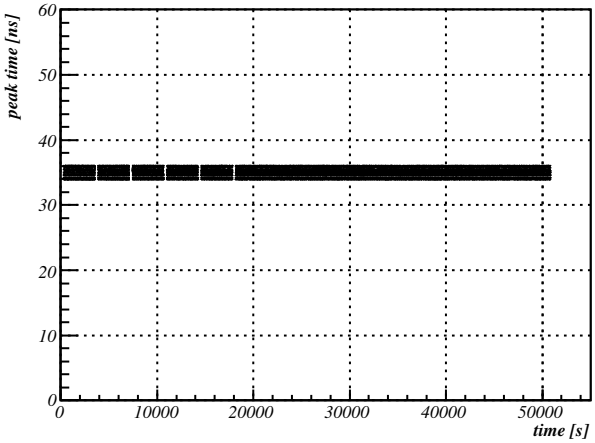
baseline



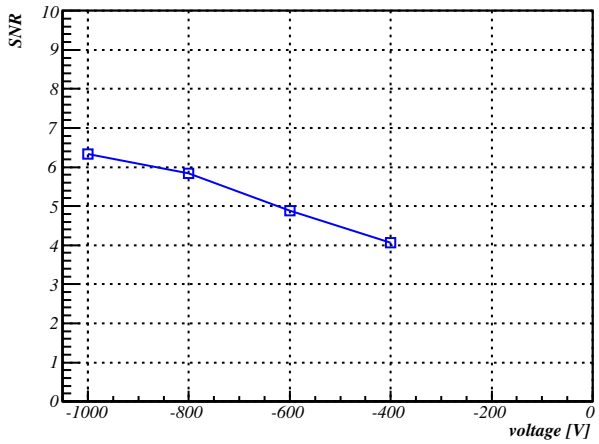
baseline rms



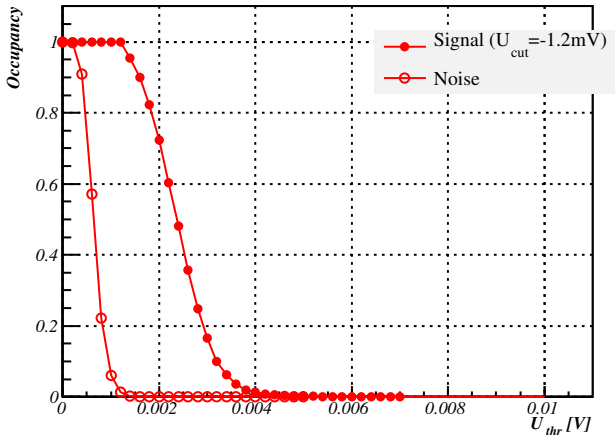
peak time



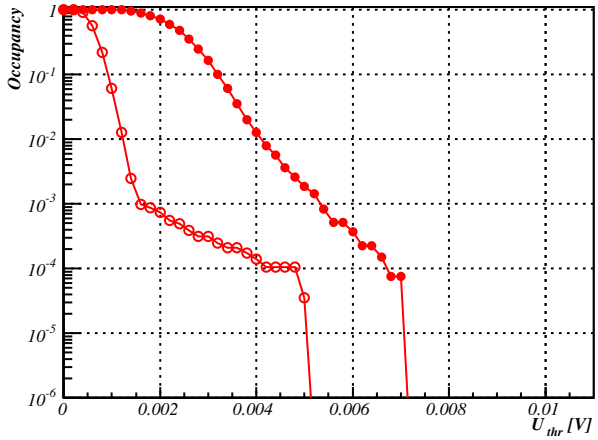
Signal to noise



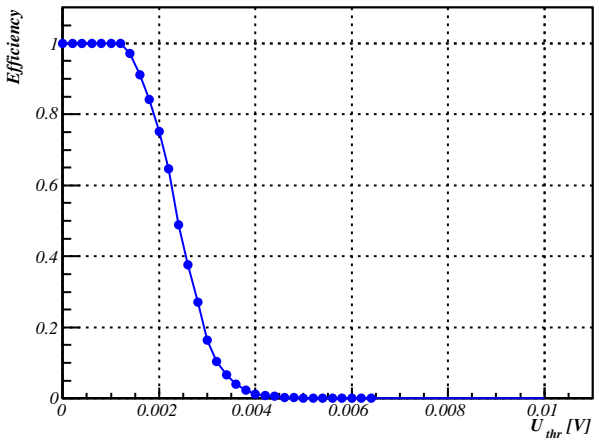
Occupancy vs Threshold, HV=-1000V



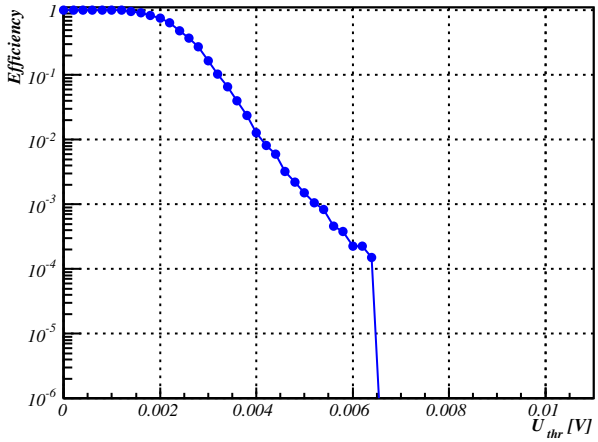
Occupancy vs Threshold, HV=-1000V



Efficiency vs Threshold, HV=1000V, U_{cut}=-1.2mV



Efficiency vs Threshold, HV=1000V, U_{cut}=-1.2mV



Data File = SP_060525114914_Fotec404_A230-9_A422-6_measurement3.xls
Upper Diamond = A230-9
Lower Diamond = A422-6
Maček ceramic Ass. #9