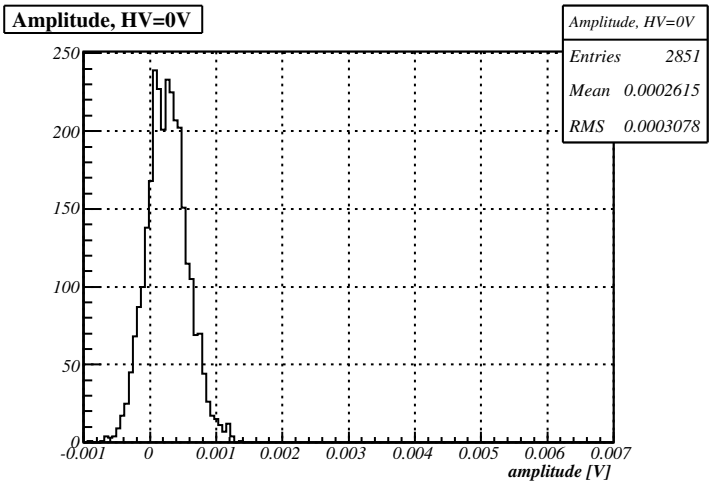
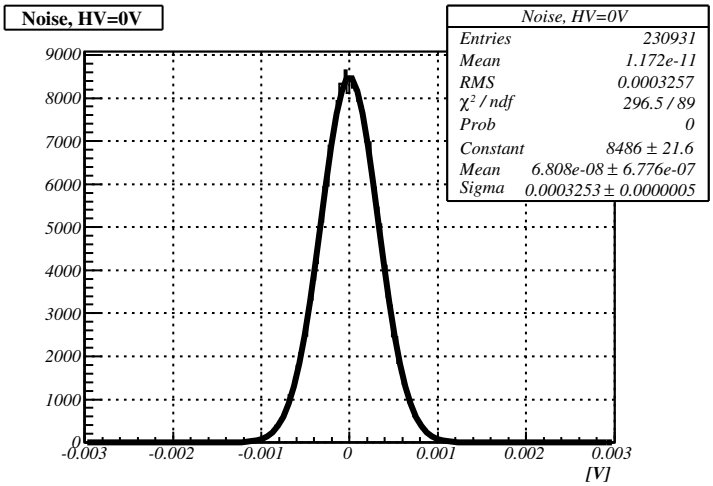
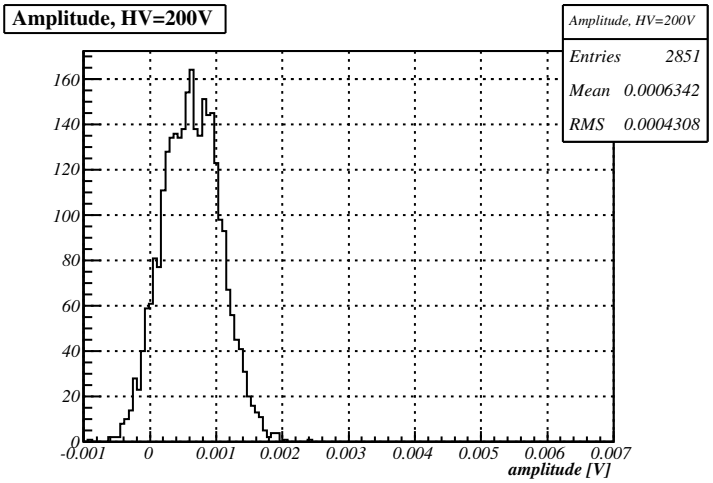
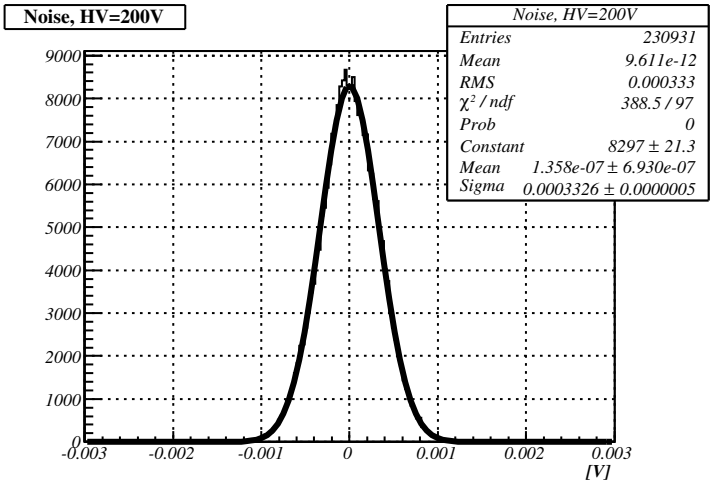
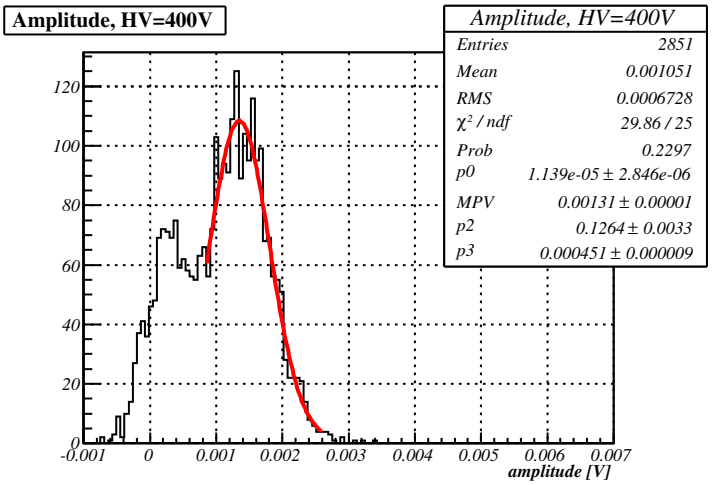
Fotec Box 413, (A382-9 and A42-11), Measurement 1 (BWL 200MHz)

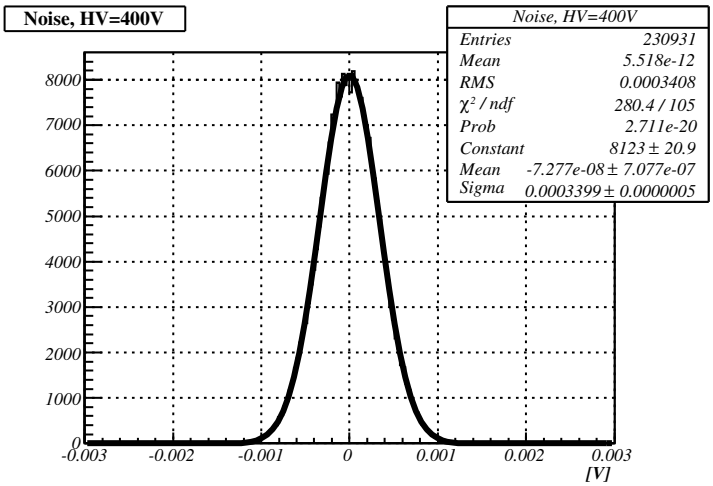


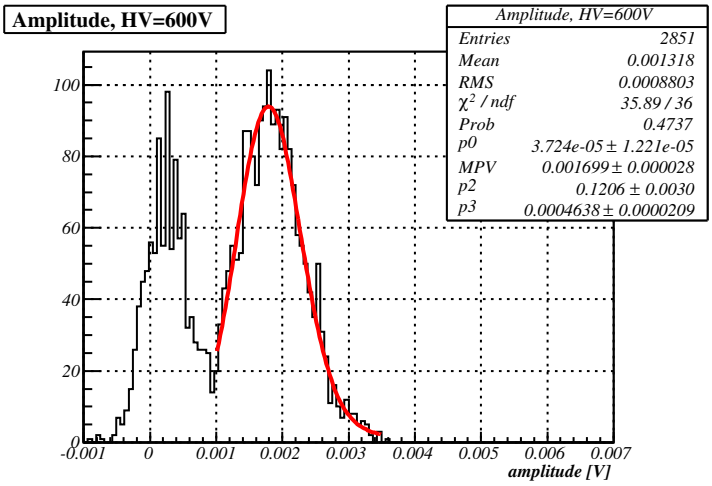


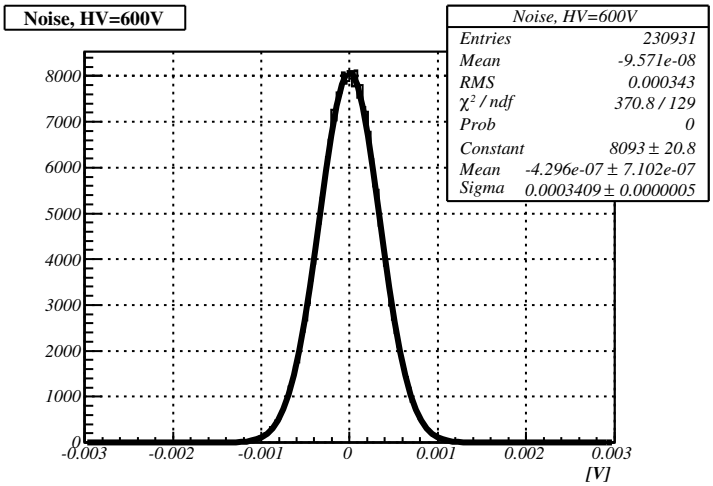


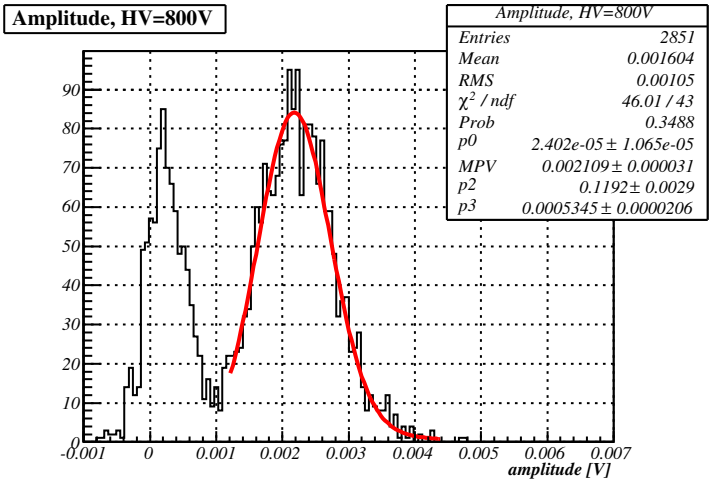


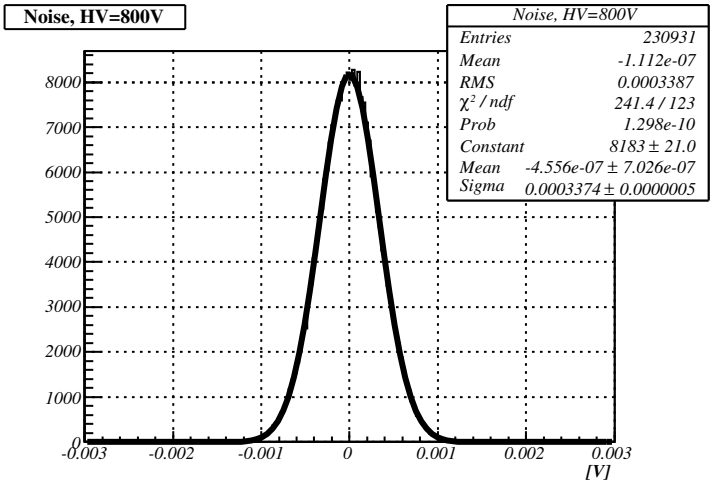


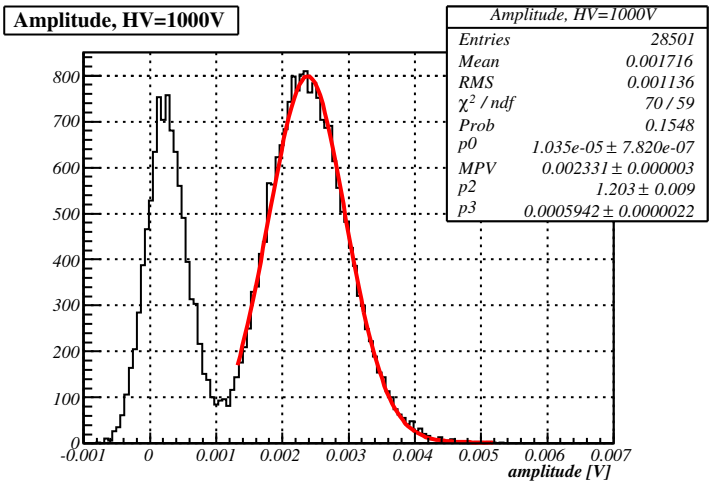


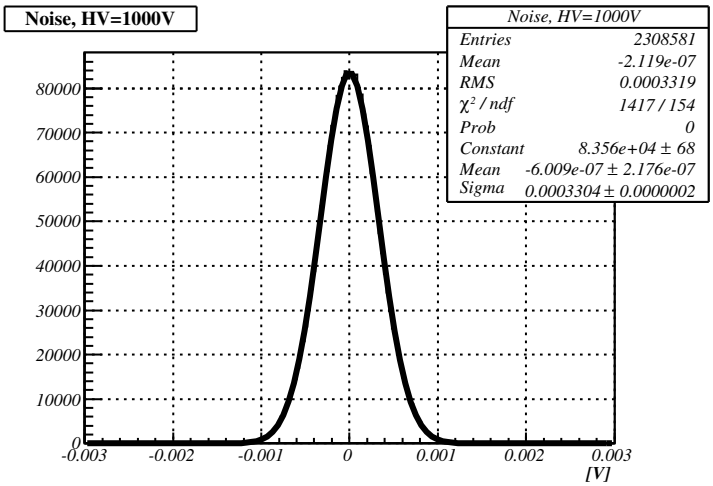

Amplitude, HV=600V
Amplitude, HV=600V
Entries 2851
Mean 0.001318
RMS 0.0008803
χ² / ndf 35.89 / 36
Prob 0.4737
p0 3.724e-05 ± 1.221e-05
MPV 0.001699 ± 0.000028
p2 0.1206 ± 0.0030
p3 0.0004638 ± 0.0000209
amplitude [V]


Noise, HV=600V
Noise, HV=600V
Entries 230931
Mean -9.571e-08
RMS 0.000343
χ² / ndf 370.8 / 129
Prob 0
Constant 8093 ± 20.8
Mean -4.296e-07 ± 7.102e-07
Sigma 0.0003409 ± 0.0000005
[V]

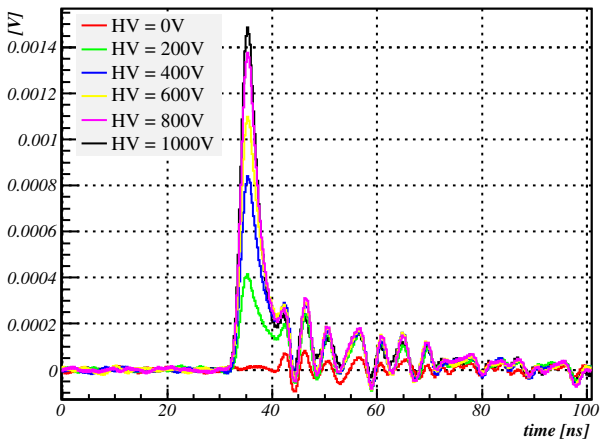

Amplitude, HV=800V
Amplitude, HV=800V
Entries 2851
Mean 0.001604
RMS 0.00105
χ² / ndf 46.01 / 43
Prob 0.3488
p0 2.402e-05 ± 1.065e-05
MPV 0.002109 ± 0.000031
p2 0.1192 ± 0.0029
p3 0.0005345 ± 0.0000206
amplitude [V]

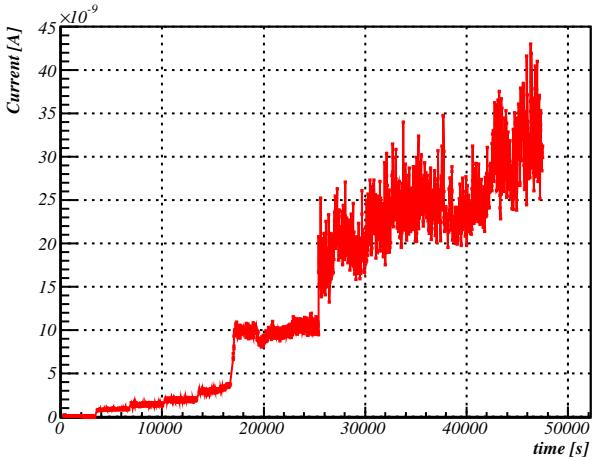

Noise, HV=800V
Noise, HV=800V
Entries 230931
Mean -1.112e-07
RMS 0.0003387
χ² / ndf 241.4 / 123
Prob 1.298e-10
Constant 8183 ± 21.0
Mean -4.556e-07 ± 7.026e-07
Sigma 0.0003374 ± 0.0000005
[V]


Amplitude, HV=1000V
Amplitude, HV=1000V
Entries 28501
Mean 0.001716
RMS 0.001136
χ² / ndf 70 / 59
Prob 0.1548
p0 1.035e-05 ± 7.820e-07
MPV 0.002331 ± 0.000003
p2 1.203 ± 0.009
p3 0.0005942 ± 0.0000022
amplitude [V]

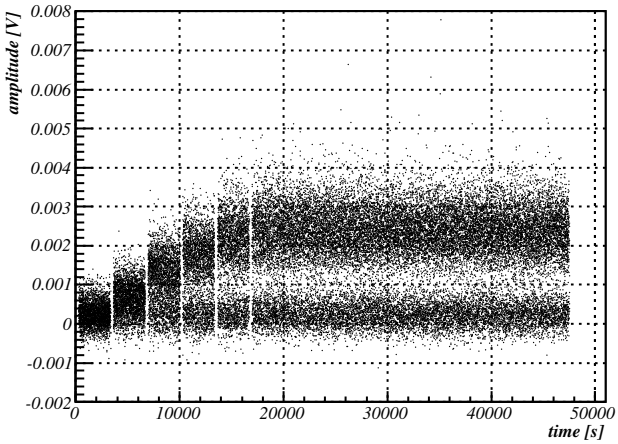

Noise, HV=1000V
Noise, HV=1000V
Entries 2308581
Mean -2.119e-07
RMS 0.0003319
χ² / ndf 1417 / 154
Prob 0
Constant 8.356e+04 ± 68
Mean -6.009e-07 ± 2.176e-07
Sigma 0.0003304 ± 0.0000002
[V]

Average event

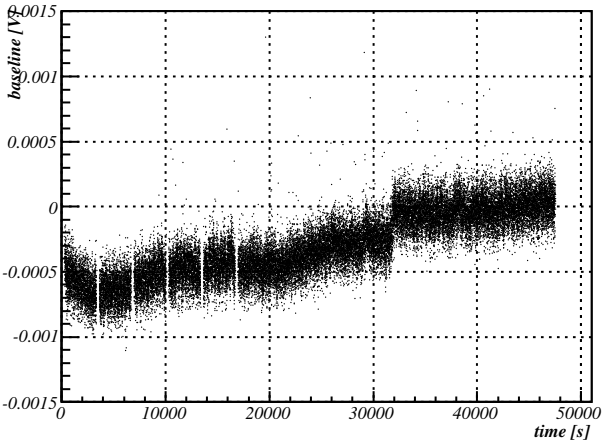




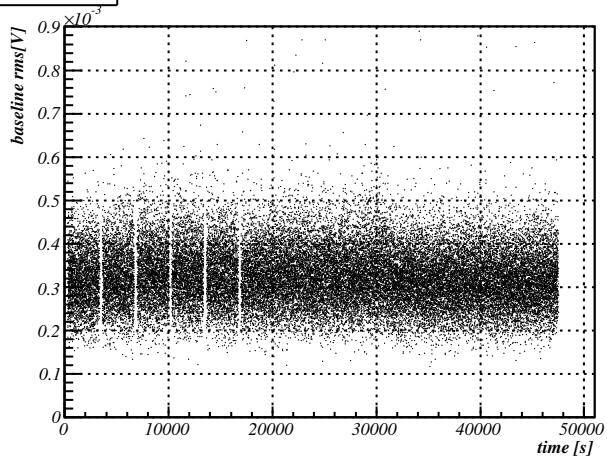
amplitudes



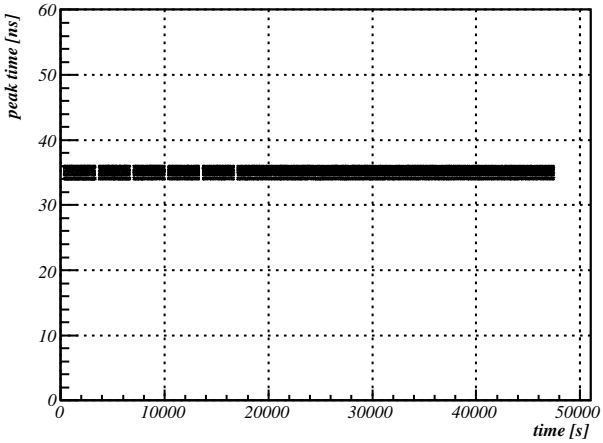
baseline



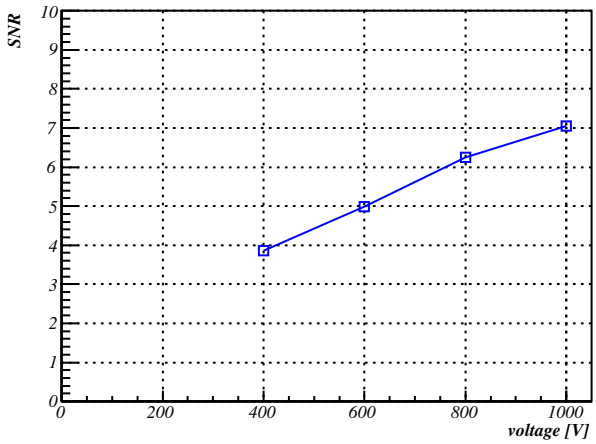
baseline rms



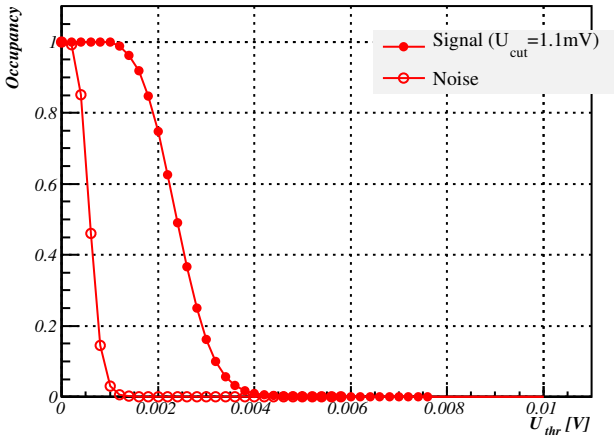
peak time



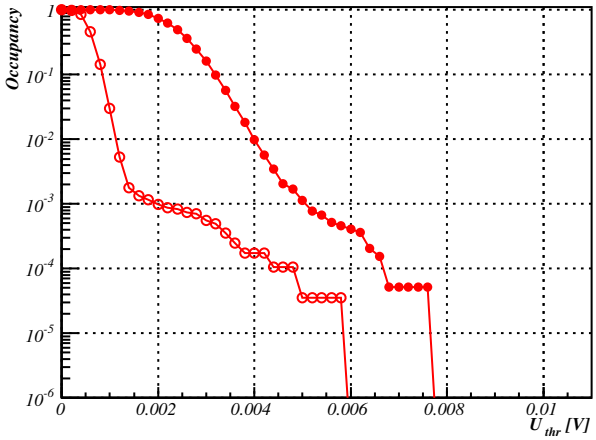
Signal to noise



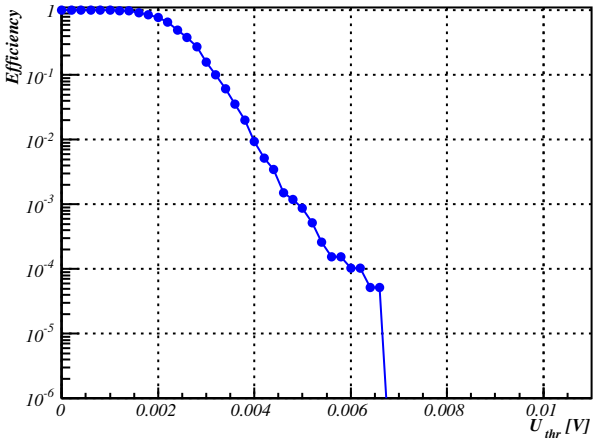
Occupancy vs Threshold, HV=1000V



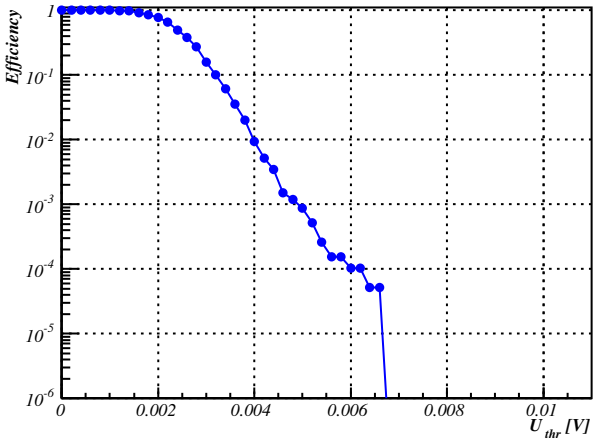
Occupancy vs Threshold, HV=1000V



Efficiency vs Threshold, HV=1000V, U_{cut}=1.1mV



Efficiency vs Threshold, HV=1000V, U_{cut}=1.1mV



Data File = SP_060603133533_Fotec413_A382-9_A422-11_measurement1.xls
Upper Diamond = A382-9
Lower Diamond = A422-11
Maček ceramic Ass. #10