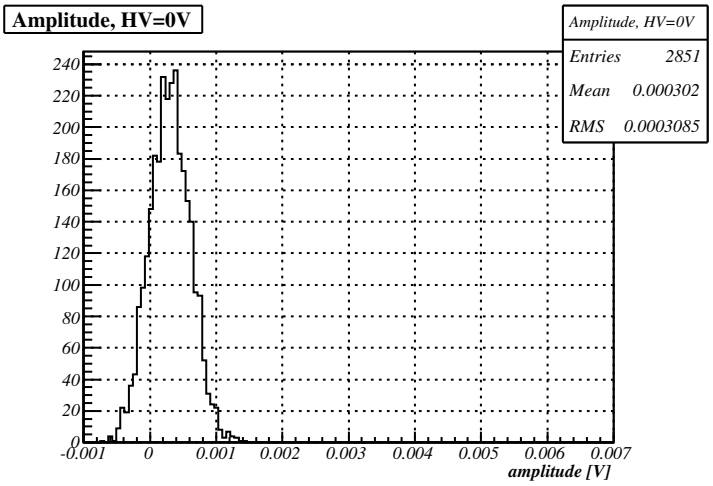
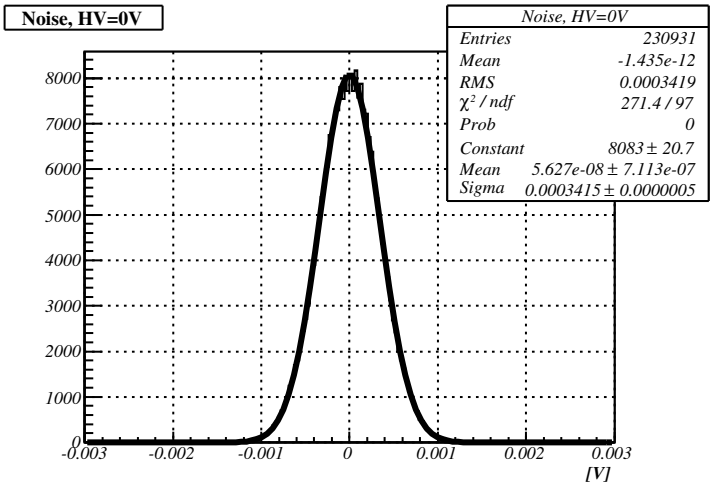
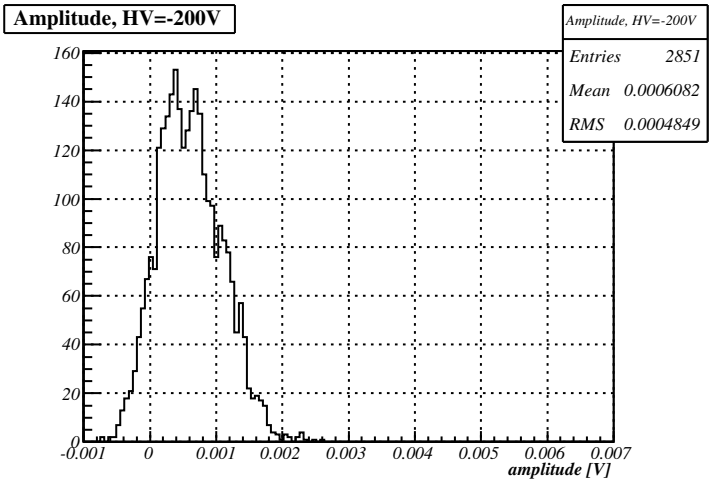
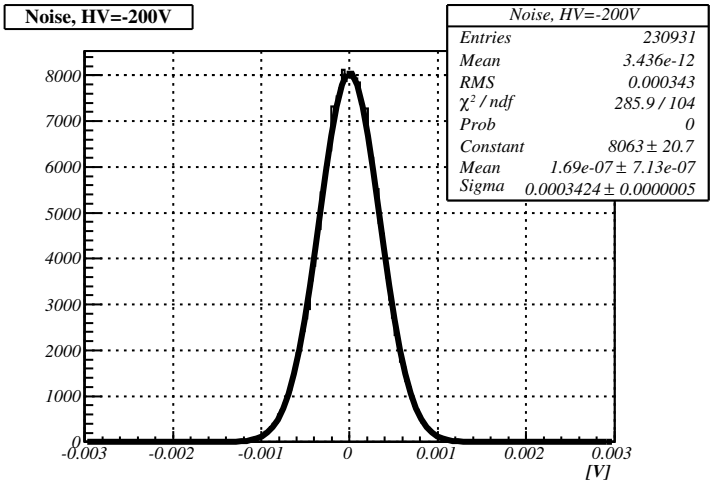
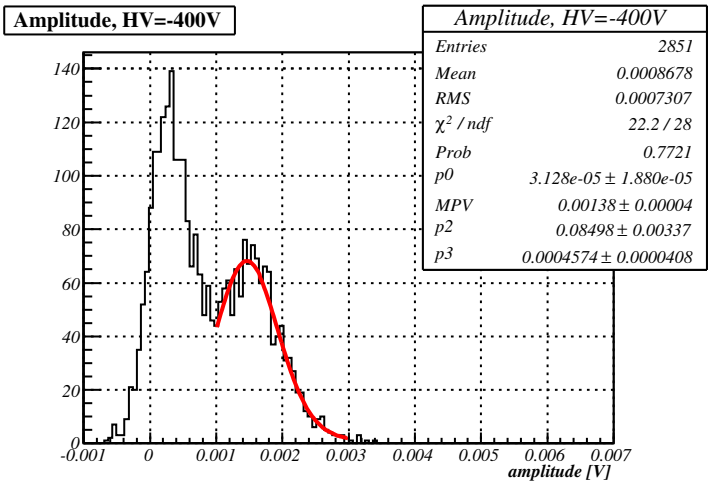
Fotec Box 409, (A422-7 and A422-5), Measurement 3 (BWL 200MHz)

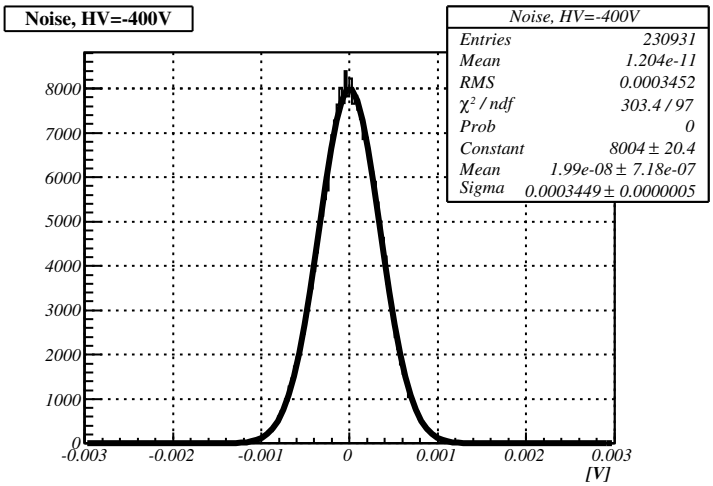


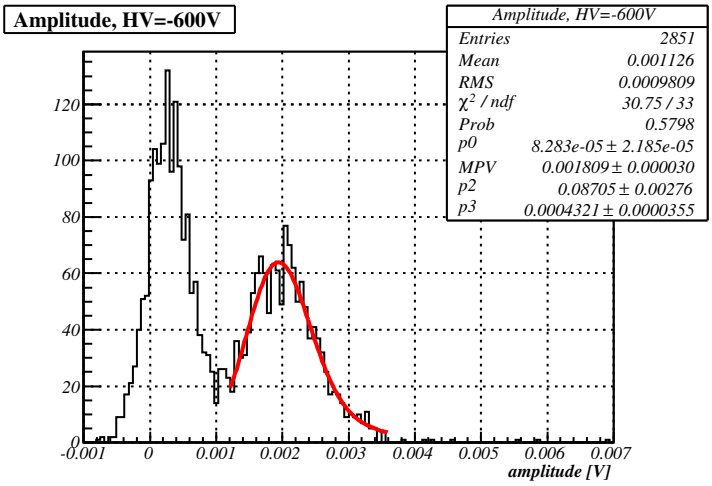


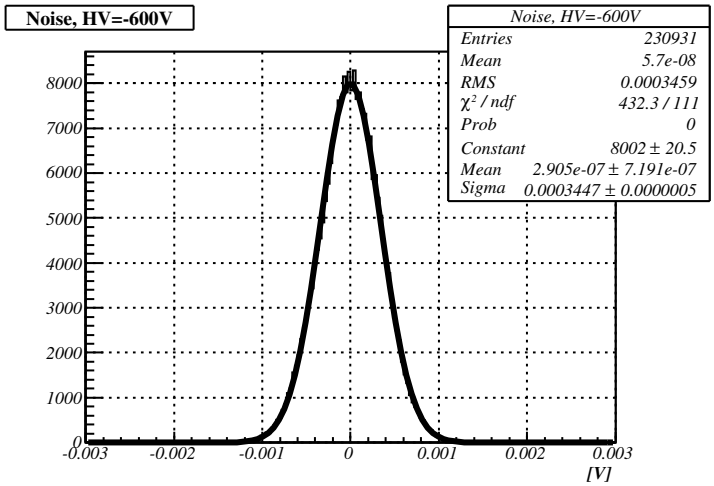


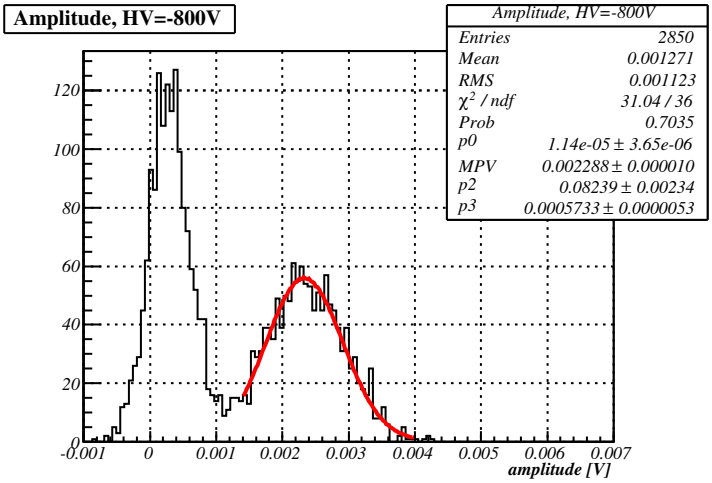


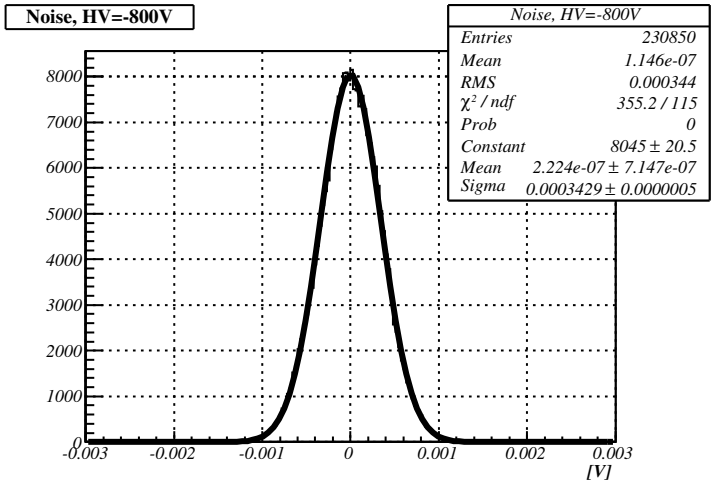


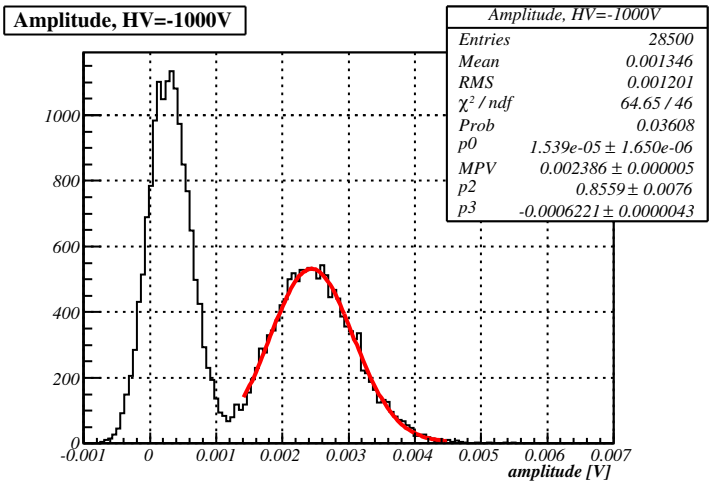


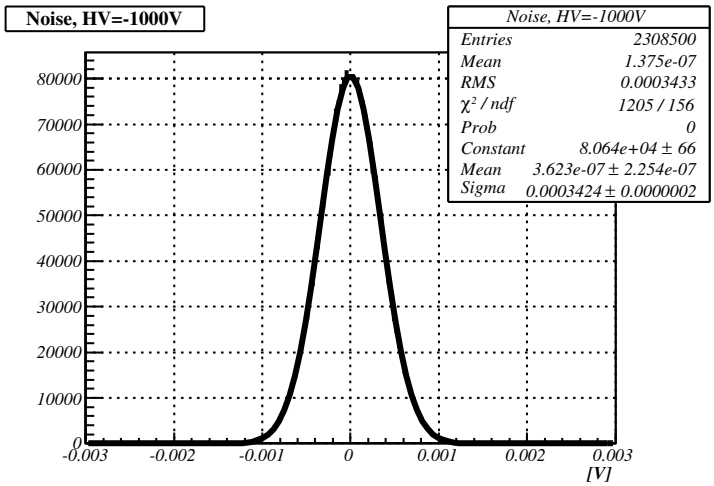

Amplitude, HV=-600V
Amplitude, HV=-600V
Entries 2851
Mean 0.001126
RMS 0.0009809
χ² / ndf 30.75 / 33
Prob 0.5798
p0 8.283e-05 ± 2.185e-05
MPV 0.001809 ± 0.000030
p2 0.08705 ± 0.00276
p3 0.0004321 ± 0.0000355
amplitude [V]


Noise, HV=-600V
Noise, HV=-600V
Entries 230931
Mean 5.7e-08
RMS 0.0003459
χ² / ndf 432.3 / 111
Prob 0
Constant 8002 ± 20.5
Mean 2.905e-07 ± 7.191e-07
Sigma 0.0003447 ± 0.0000005
[V]

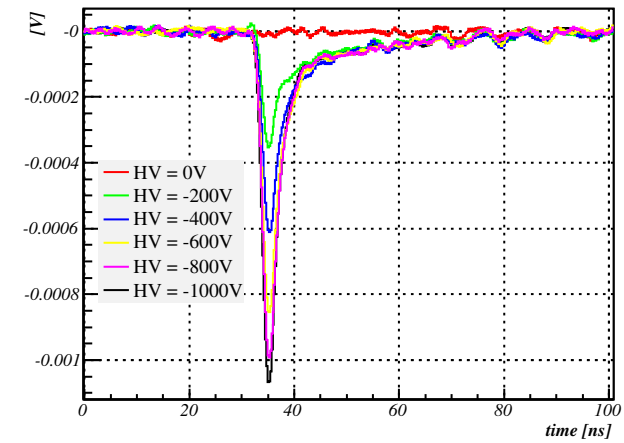

Amplitude, HV=-800V
Amplitude, HV=-800V
Entries 2850
Mean 0.001271
RMS 0.001123
χ² / ndf 31.04 / 36
Prob 0.7035
p0 1.14e-05 ± 3.65e-06
MPV 0.002288 ± 0.000010
p2 0.08239 ± 0.00234
p3 0.0005733 ± 0.0000053
amplitude [V]

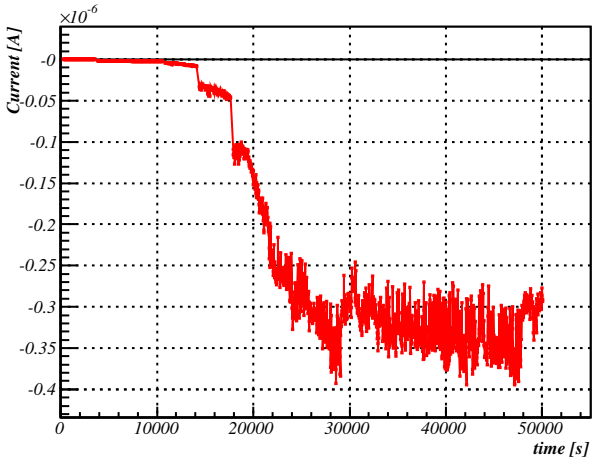

Noise, HV=-800V
Noise, HV=-800V
Entries 230850
Mean 1.146e-07
RMS 0.000344
χ² / ndf 355.2 / 115
Prob 0
Constant 8045 ± 20.5
Mean 2.224e-07 ± 7.147e-07
Sigma 0.0003429 ± 0.0000005
[V]


Amplitude, HV=-1000V
Amplitude, HV=-1000V
Entries 28500
Mean 0.001346
RMS 0.001201
χ² / ndf 64.65 / 46
Prob 0.03608
p0 1.539e-05 ± 1.650e-06
MPV 0.002386 ± 0.000005
p2 0.8559 ± 0.0076
p3 -0.0006221 ± 0.0000043
amplitude [V]

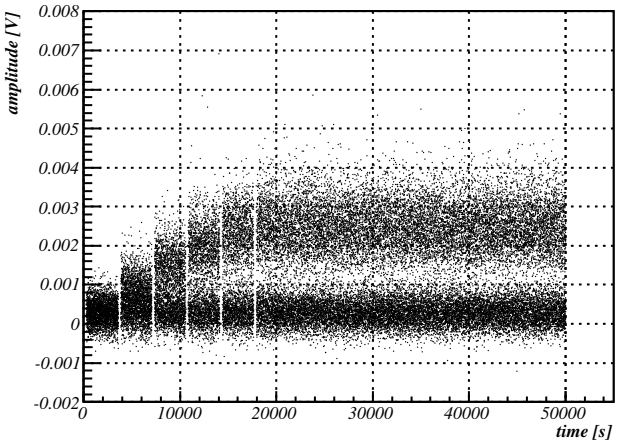

Noise, HV=-1000V
Noise, HV=-1000V
Entries 2308500
Mean 1.375e-07
RMS 0.0003433
χ² / ndf 1205 / 156
Prob 0
Constant 8.064e+04 ± 66
Mean 3.623e-07 ± 2.254e-07
Sigma 0.0003424 ± 0.0000002
[V]

Average event

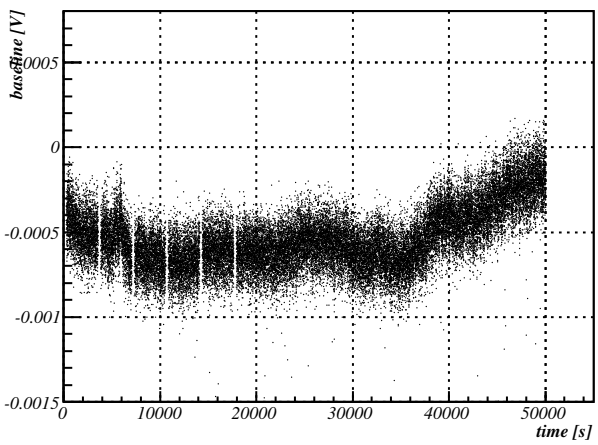




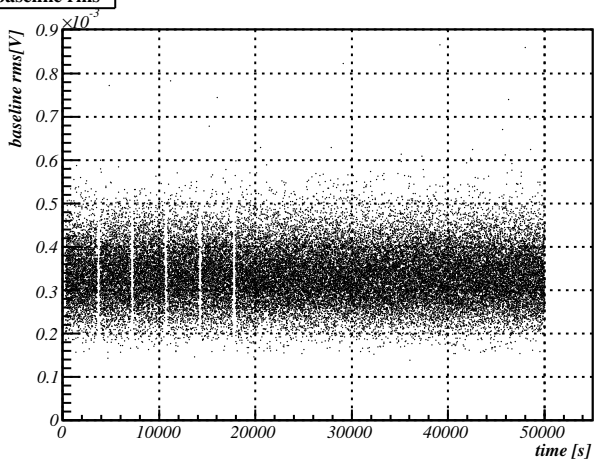
amplitudes



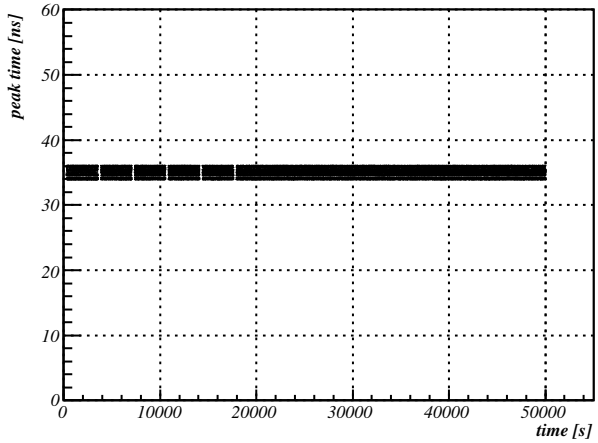
baseline



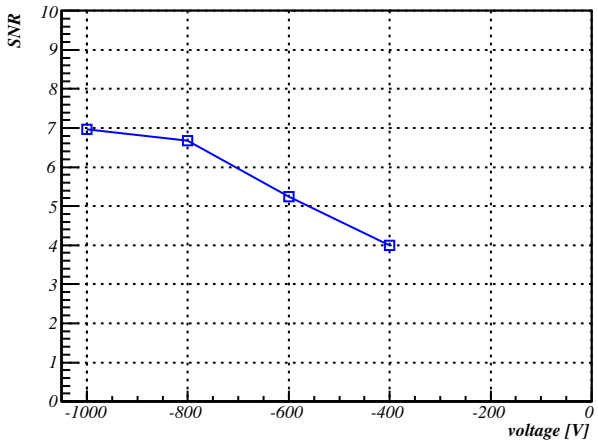
baseline rms



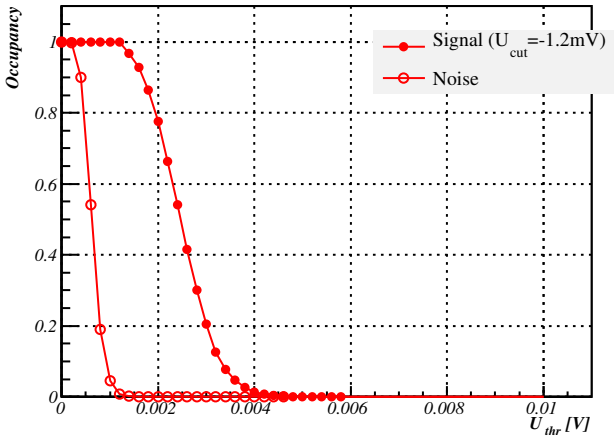
peak time



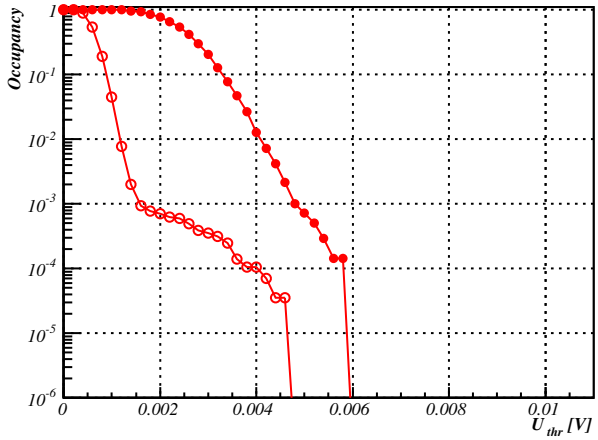
Signal to noise



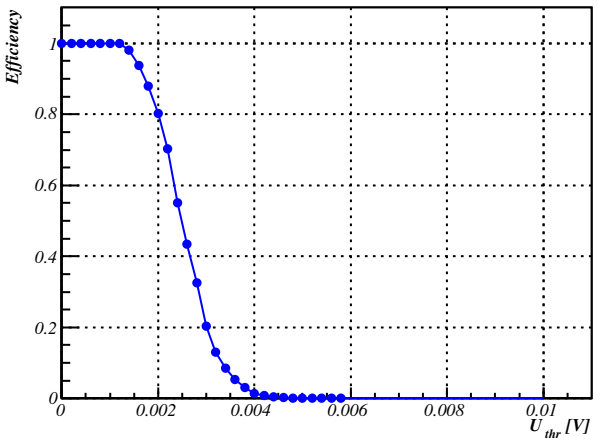
Occupancy vs Threshold, HV=-1000V



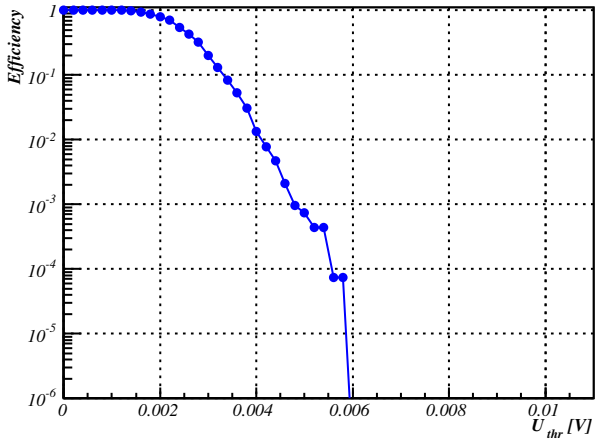
Occupancy vs Threshold, HV=-1000V



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



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



Data File = SP_060606091921_Fotec409_A422-7_A422-5_measurement3.xls
Upper Diamond = A422-7
Lower Diamond = A422-5
Maček ceramic Ass. #7