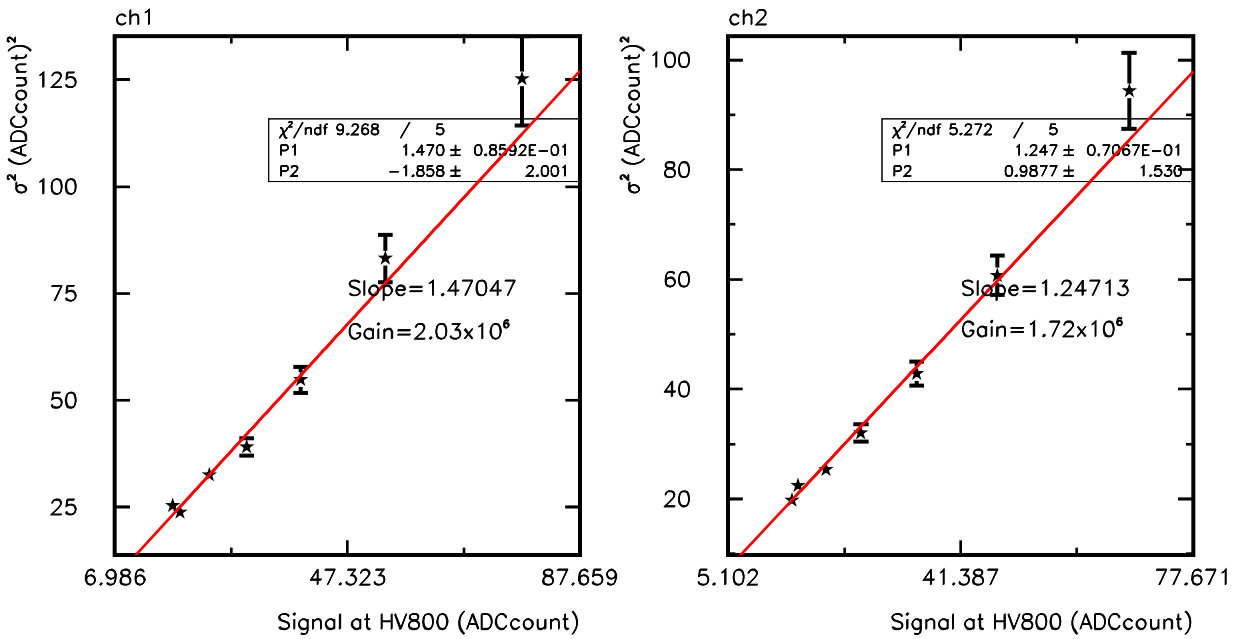
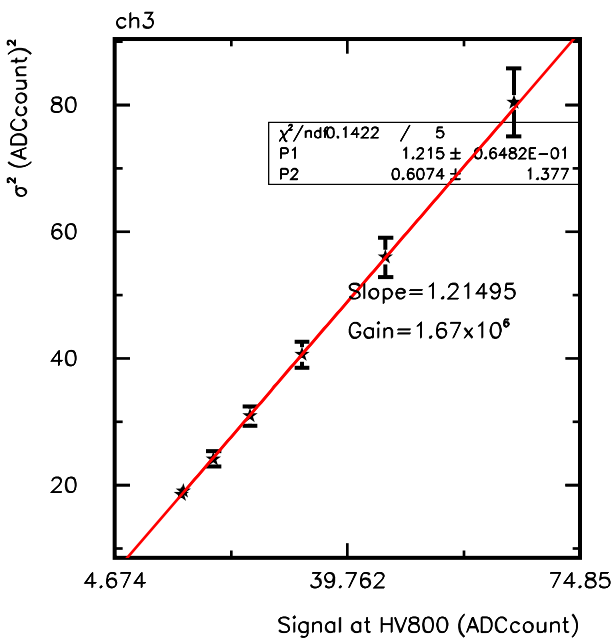
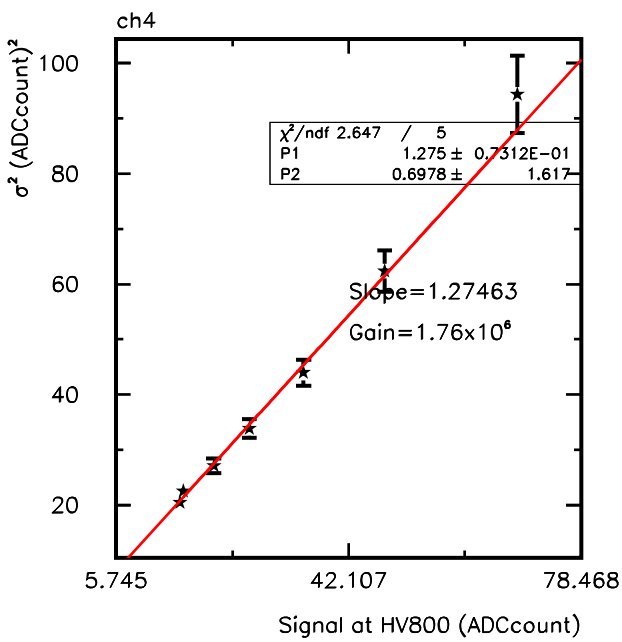
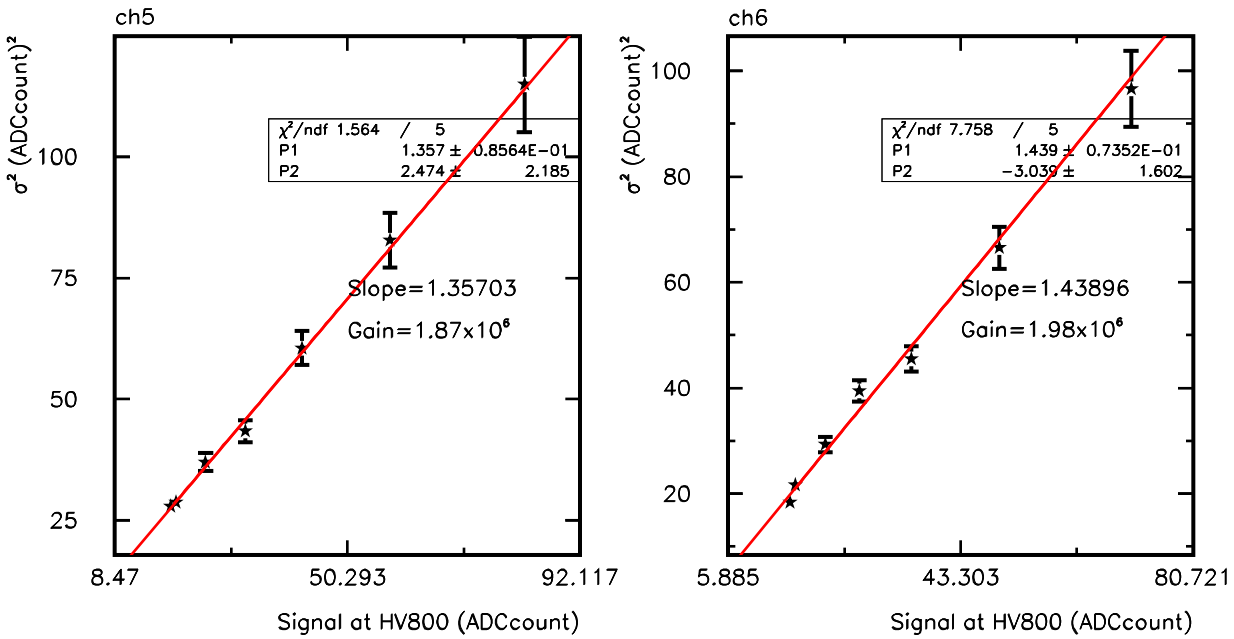
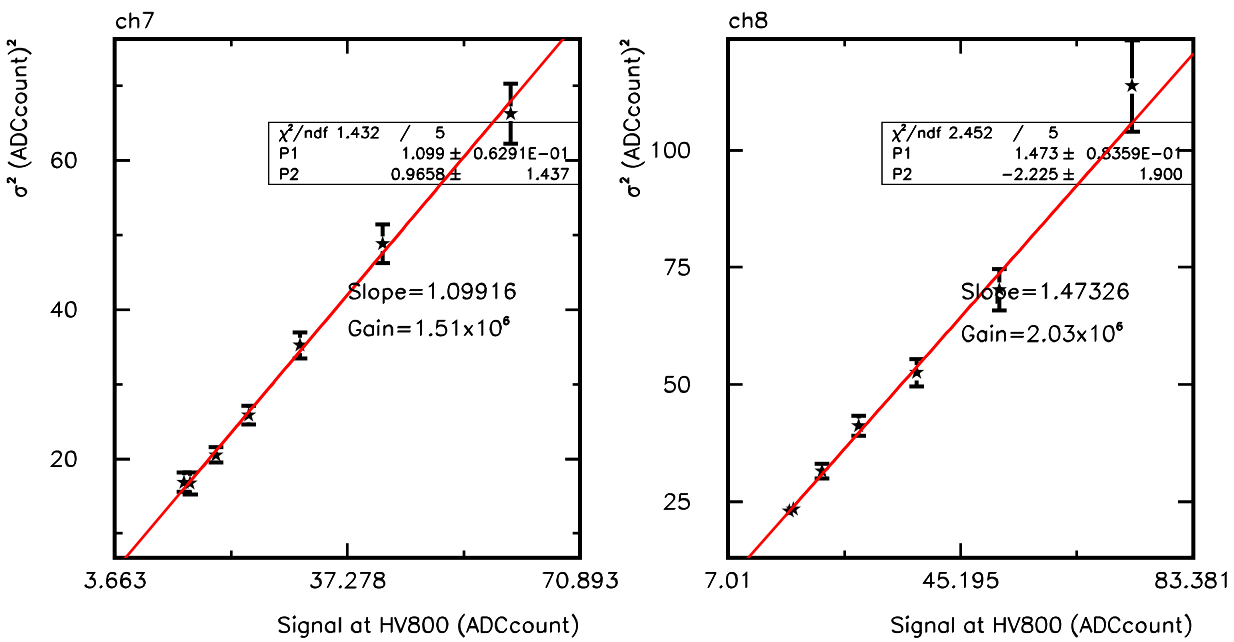

ch1
σ² (ADCcount)²
125
100
75
50
25
χ²/ndf 9.268 / 5
P1 1.470 ± 0.8592E-01
P2 −1.858 ± 2.001
Slope=1.47047
Gain=2.03x10⁶
6.986
47.323
87.659
Signal at HV800 (ADCcount)

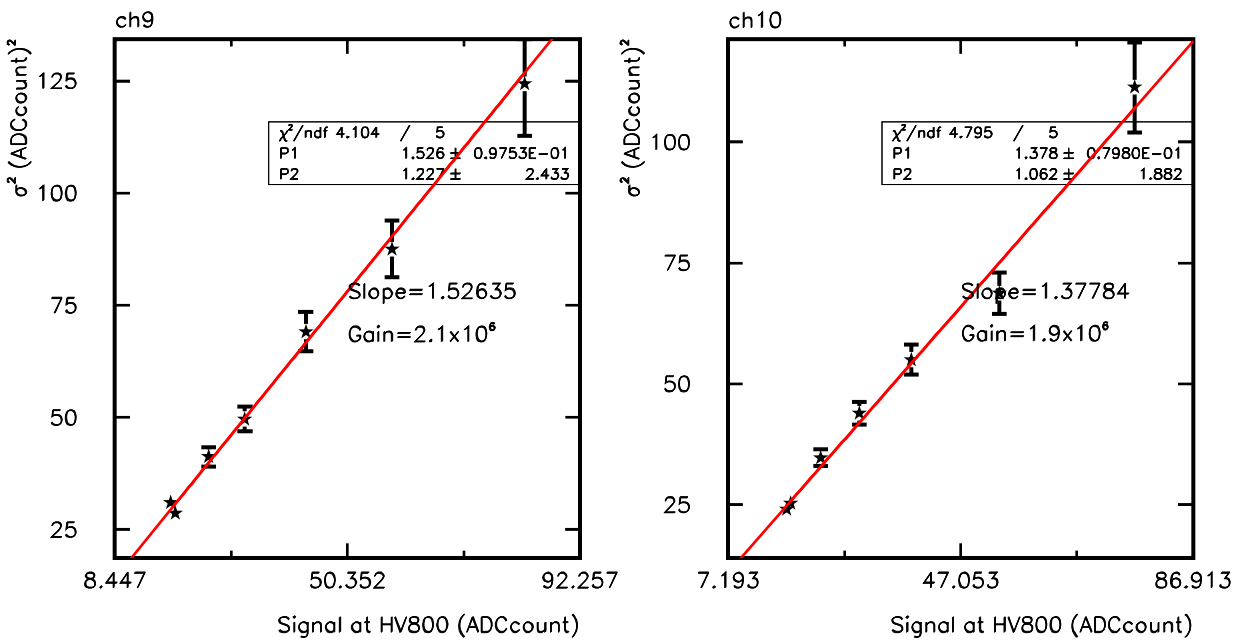
ch2
σ² (ADCcount)²
100
80
60
40
20
χ²/ndf 5.272 / 5
P1 1.247 ± 0.7067E-01
P2 0.9877 ± 1.530
Slope=1.24713
Gain=1.72x10⁶
5.102
41.387
77.671
Signal at HV800 (ADCcount)

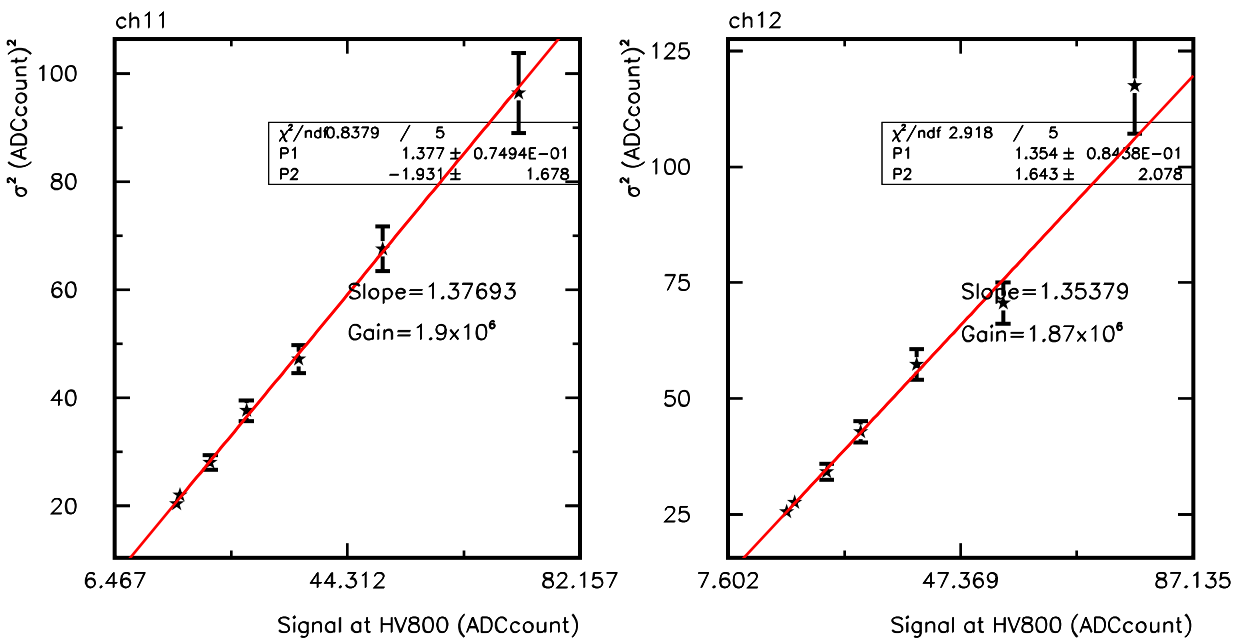

ch3
σ² (ADCcount)²
80
60
40
20
χ²/ndf 0.1422 / 5
P1 1.215 ± 0.6482E-01
P2 0.6074 ± 1.377
Slope=1.21495
Gain=1.67x10⁶
4.674
39.762
74.85
Signal at HV800 (ADCcount)

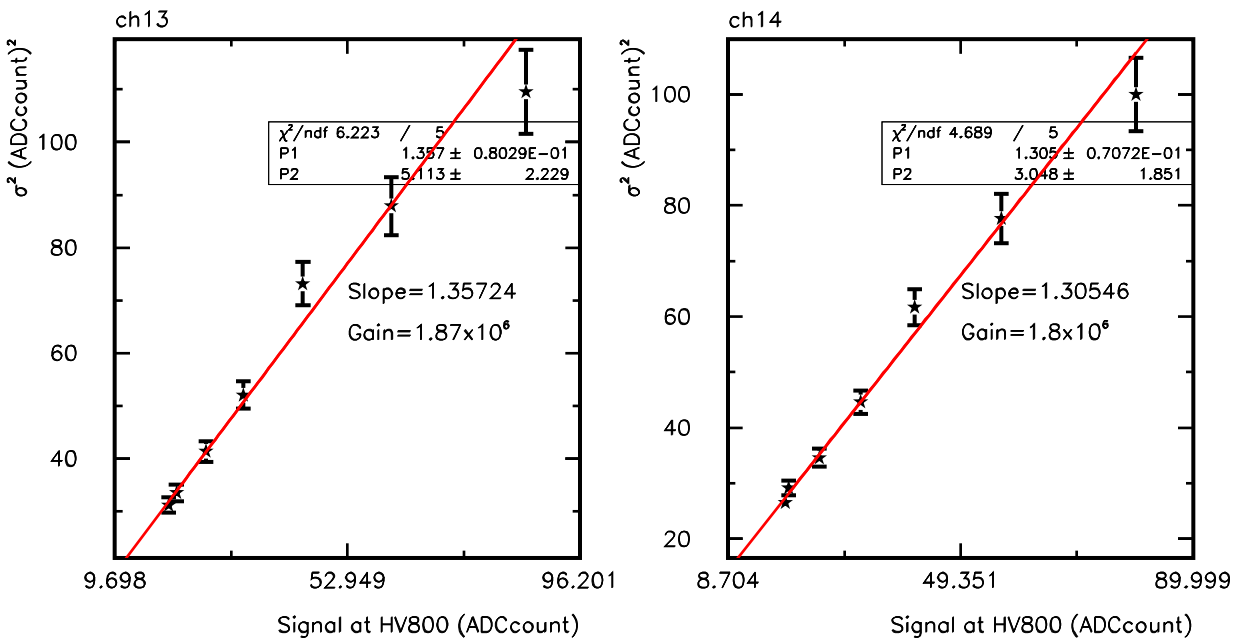

ch4
σ² (ADCcount)²
100
80
60
40
20
χ²/ndf 2.647 / 5
P1 1.275 ± 0.7312E-01
P2 0.6978 ± 1.617
Slope=1.27463
Gain=1.76x10⁶
5.745
42.107
78.468
Signal at HV800 (ADCcount)


ch5
σ² (ADCcount)²
χ²/ndf 1.564 / 5
P1 1.357 ± 0.8564E-01
P2 2.474 ± 2.185
Slope=1.35703
Gain=1.87x10⁶
8.47
50.293
92.117
Signal at HV800 (ADCcount)
ch6
σ² (ADCcount)²
χ²/ndf 7.758 / 5
P1 1.439 ± 0.7352E-01
P2 −3.039 ± 1.602
Slope=1.43896
Gain=1.98x10⁶
5.885
43.303
80.721
Signal at HV800 (ADCcount)

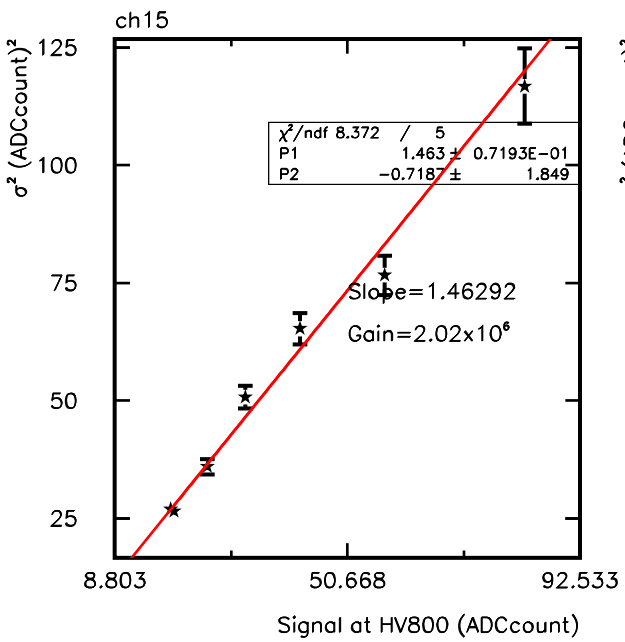

ch7
σ² (ADCcount)²
χ²/ndf 1.432 / 5
P1 1.099 ± 0.6291E-01
P2 0.9658 ± 1.437
Slope=1.09916
Gain=1.51x10⁶
3.663
37.278
70.893
Signal at HV800 (ADCcount)
ch8
σ² (ADCcount)²
χ²/ndf 2.452 / 5
P1 1.473 ± 0.8359E-01
P2 −2.225 ± 1.900
Slope=1.47326
Gain=2.03x10⁶
7.01
45.195
83.381
Signal at HV800 (ADCcount)

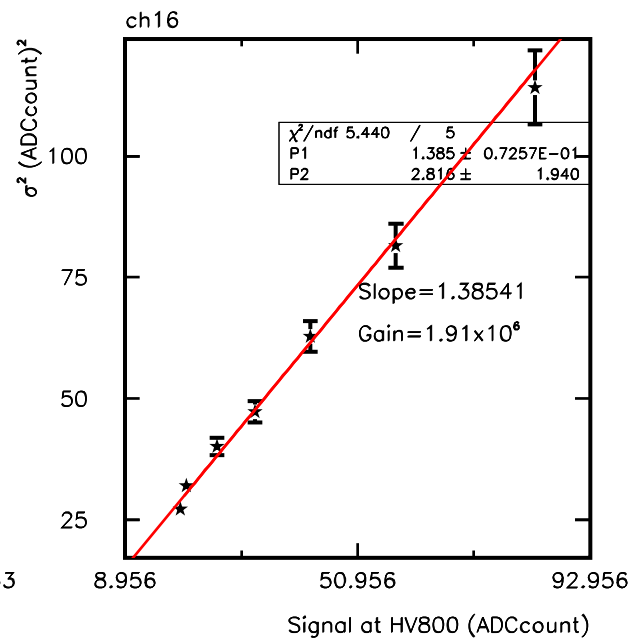

ch9
σ² (ADCcount)²
χ²/ndf 4.104 / 5
P1 1.526 ± 0.9753E-01
P2 1.227 ± 2.433
Slope=1.52635
Gain=2.1x10⁶
8.447
50.352
92.257
Signal at HV800 (ADCcount)
ch10
σ² (ADCcount)²
χ²/ndf 4.795 / 5
P1 1.378 ± 0.7980E-01
P2 1.062 ± 1.882
Slope=1.37784
Gain=1.9x10⁶
7.193
47.053
86.913
Signal at HV800 (ADCcount)


ch11
σ² (ADCcount)²
χ²/ndf 0.8379 / 5
P1 1.377 ± 0.7494E-01
P2 −1.931 ± 1.678
Slope=1.37693
Gain=1.9x10⁶
6.467
44.312
82.157
Signal at HV800 (ADCcount)
ch12
σ² (ADCcount)²
χ²/ndf 2.918 / 5
P1 1.354 ± 0.8438E-01
P2 1.643 ± 2.078
Slope=1.35379
Gain=1.87x10⁶
7.602
47.369
87.135
Signal at HV800 (ADCcount)


ch13
σ² (ADCcount)²
χ²/ndf 6.223 / 5
P1 1.357 ± 0.8029E-01
P2 5.113 ± 2.229
Slope=1.35724
Gain=1.87x10⁶
9.698
52.949
96.201
Signal at HV800 (ADCcount)

ch14
σ² (ADCcount)²
χ²/ndf 4.689 / 5
P1 1.305 ± 0.7072E-01
P2 3.048 ± 1.851
Slope=1.30546
Gain=1.8x10⁶
8.704
49.351
89.999
Signal at HV800 (ADCcount)


ch15
σ² (ADCcount)²
χ²/ndf 8.372 / 5
P1 1.463 ± 0.7193E-01
P2 −0.7187 ± 1.849
Slope=1.46292
Gain=2.02x10⁶
8.803
50.668
92.533
Signal at HV800 (ADCcount)

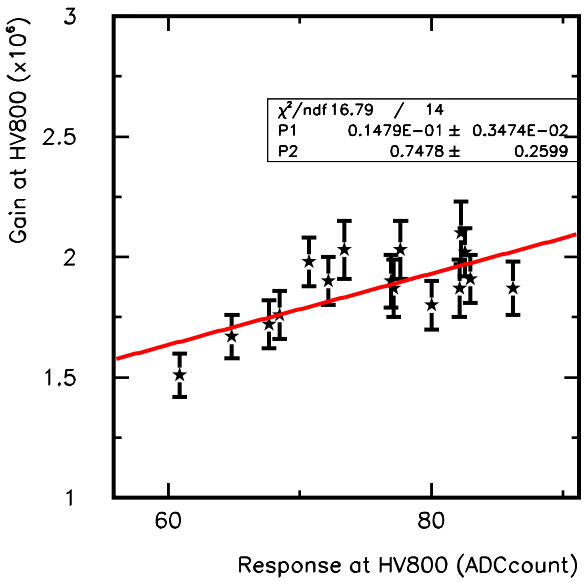

ch16
σ² (ADCcount)²
χ²/ndf 5.440 / 5
P1 1.385 ± 0.7257E-01
P2 2.815 ± 1.940
Slope=1.38541
Gain=1.91x10⁶
8.956
50.956
92.956
Signal at HV800 (ADCcount)

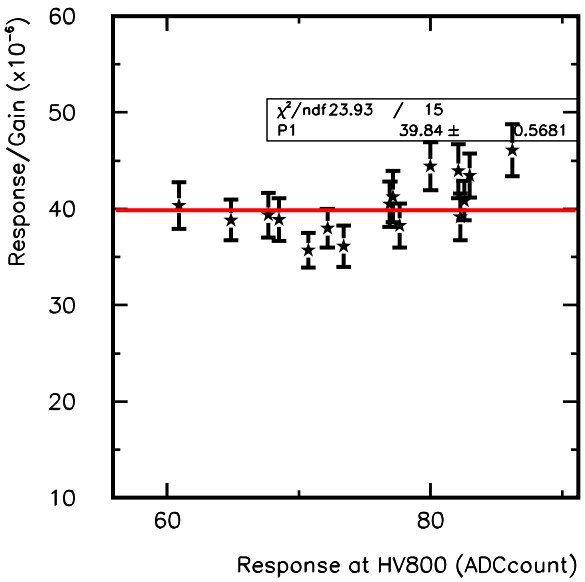
sa0465.gain.uniformity

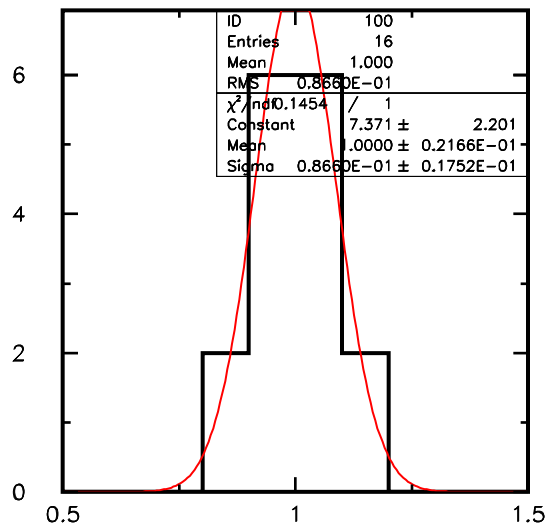
ch1 ADC=77.65±0.47 normADC=1.03 --- GAIN =(2.03±0.12)x10^6 normGAIN=1.08	ch2 67.67±0.38 0.89 --- (1.72±0.1)x10^6 0.91	ch3 64.85±0.34 0.86 --- (1.67±0.09)x10^6 0.89	ch4 68.46±0.38 0.9 --- (1.76±0.1)x10^6 0.94
ch5 82.11±0.45 1.08 --- (1.87±0.12)x10^6 0.99	ch6 70.72±0.39 0.93 --- (1.98±0.1)x10^6 1.05	ch7 60.89±0.3 0.8 --- (1.51±0.09)x10^6 0.8	ch8 73.38±0.45 0.97 --- (2.03±0.12)x10^6 1.08
ch9 82.25±0.49 1.09 --- (2.09±0.13)x10^6 1.12	ch10 76.91±0.44 1.02 --- (1.9±0.11)x10^6 1.01	ch11 72.15±0.39 0.95 --- (1.9±0.1)x10^6 1.01	ch12 77.13±0.46 1.02 --- (1.87±0.12)x10^6 0.99
ch13 86.2±0.4 1.14 --- (1.87±0.11)x10^6 0.99	ch14 79.99±0.36 1.06 --- (1.8±0.1)x10^6 0.96	ch15 82.53±0.39 1.09 --- (2.02±0.1)x10^6 1.07	ch16 82.95±0.38 1.1 --- (1.91±0.1)x10^6 1.02

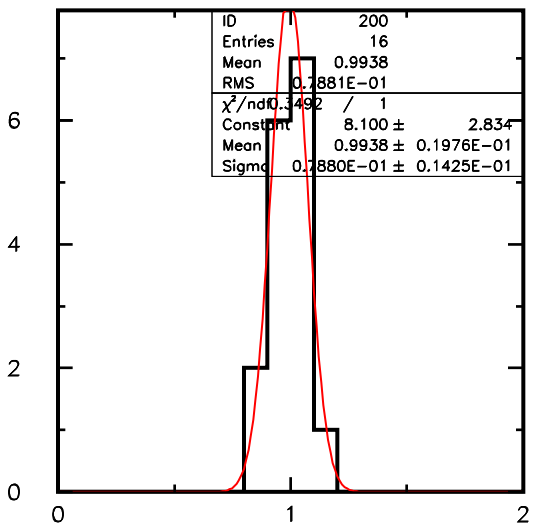
meanGAIN=(1.87±0.1)x10^6
hamaGAIN=1.32x10^6

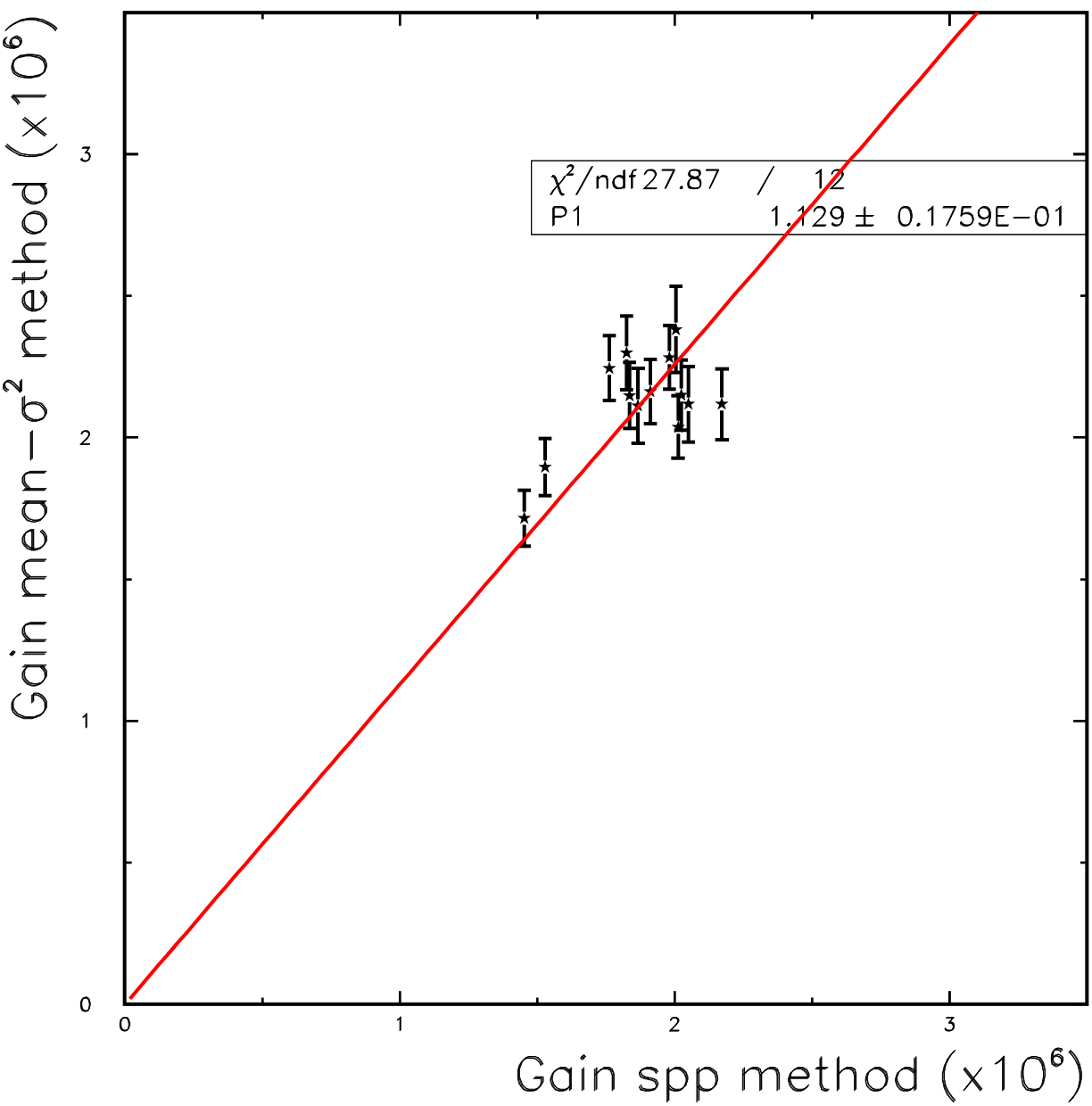
sa0465.Response−Gain.correlation

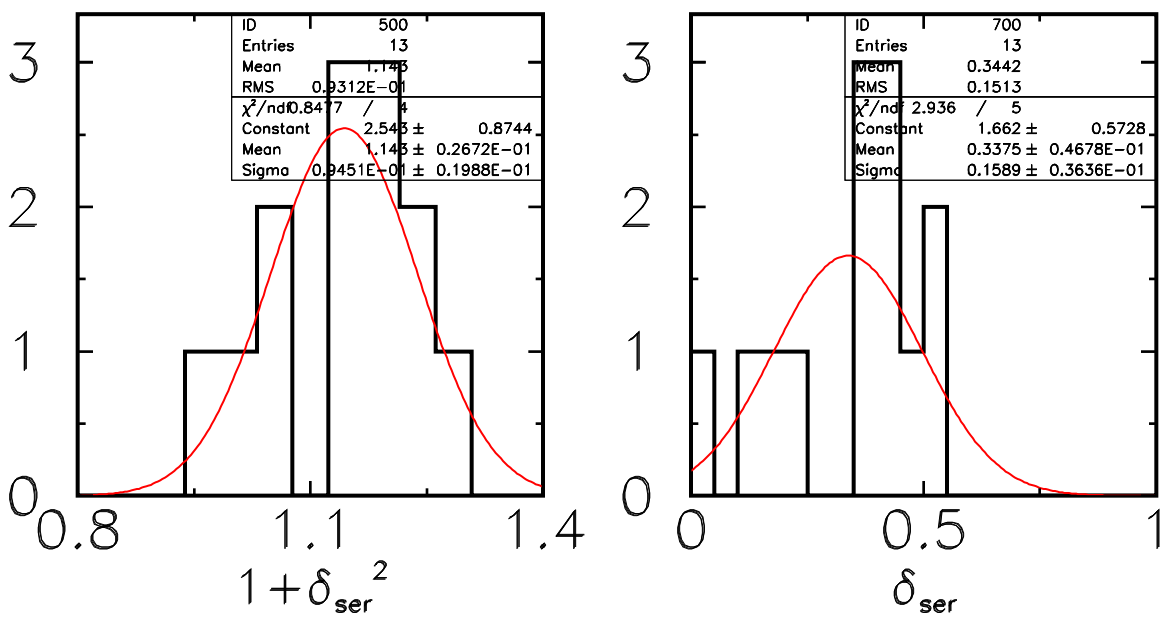









Gain mean−σ² method (x10⁶)
Gain spp method (x10⁶)
χ²/ndf 27.87 / 12
P1 1.129 ± 0.1759E−01
0
1
2
3


ID 500
Entries 13
Mean 1.143
RMS 0.9312E-01
χ²/ndf 0.8477 / 4
Constant 2.543 ± 0.8744
Mean 1.143 ± 0.2672E-01
Sigma 0.9451E-01 ± 0.1988E-01
3
2
1
0
0.8
1.1
1.4
1+δser 2
ID 700
Entries 13
Mean 0.3442
RMS 0.1513
χ²/ndf 2.936 / 5
Constant 1.662 ± 0.5728
Mean 0.3375 ± 0.4678E-01
Sigma 0.1589 ± 0.3636E-01
3
2
1
0
0
0.5
1
δser