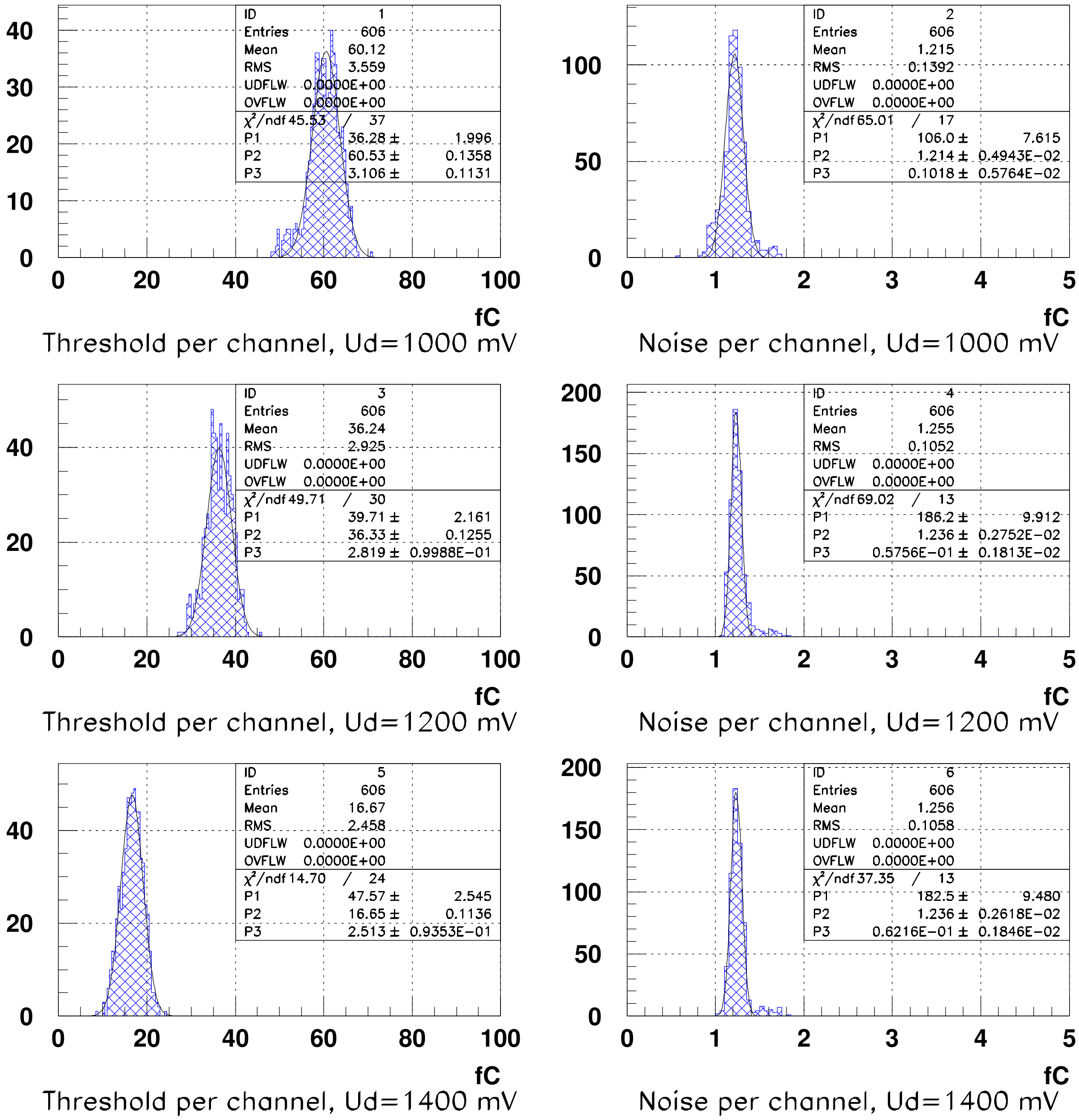
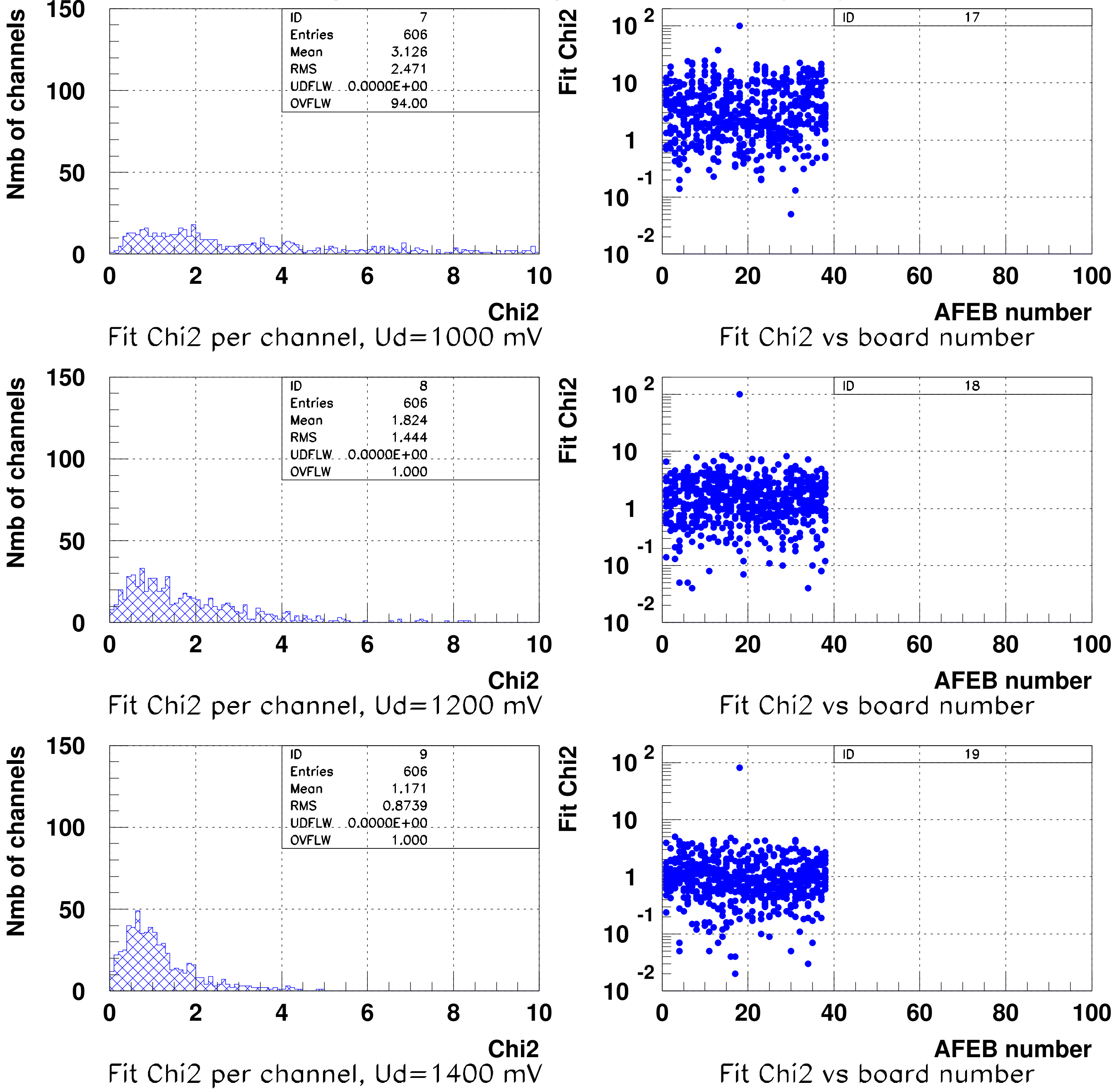
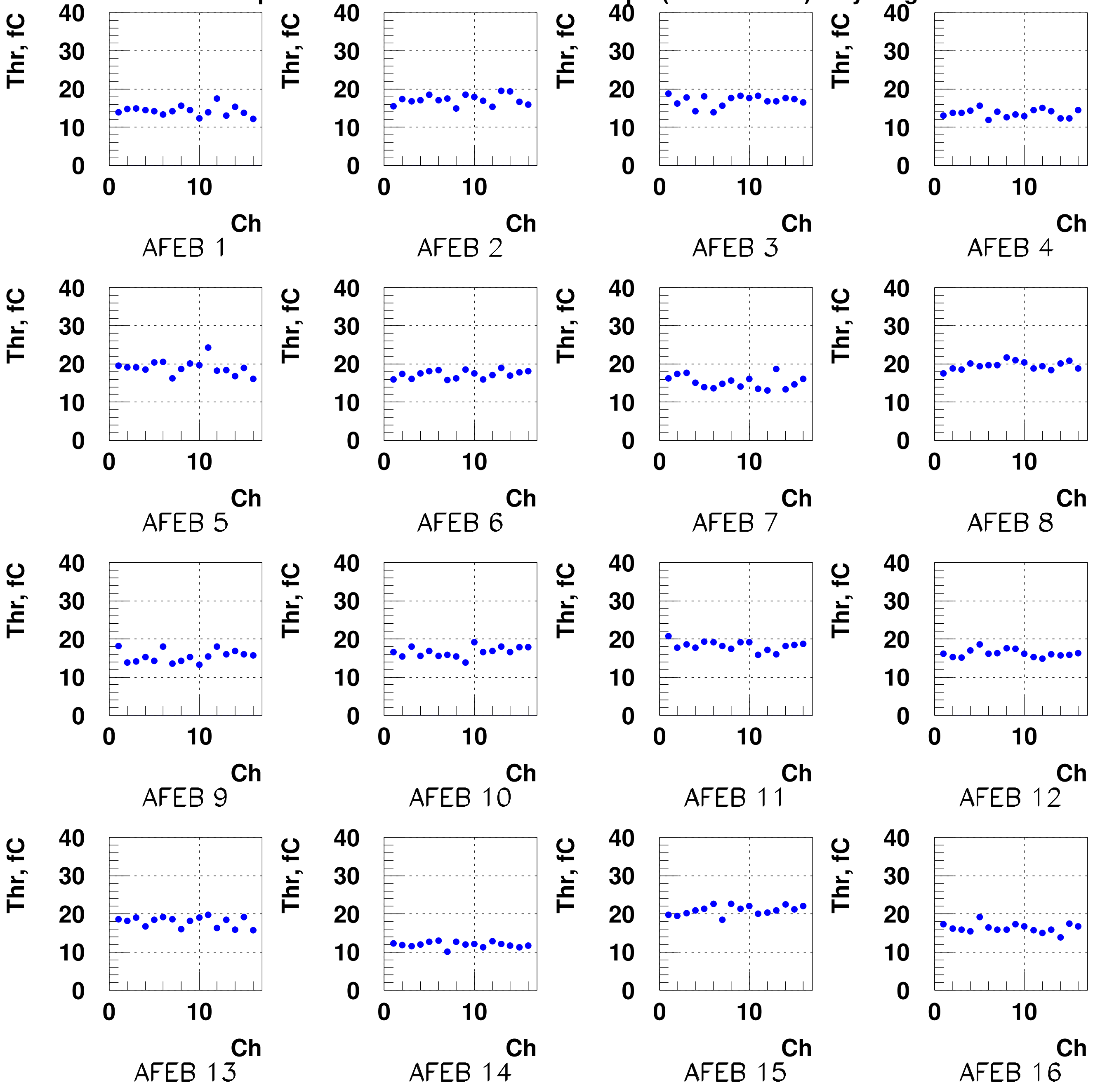
Chip CMP16F Cdet=56 pF (FNAL Stand) May-Aug 2000

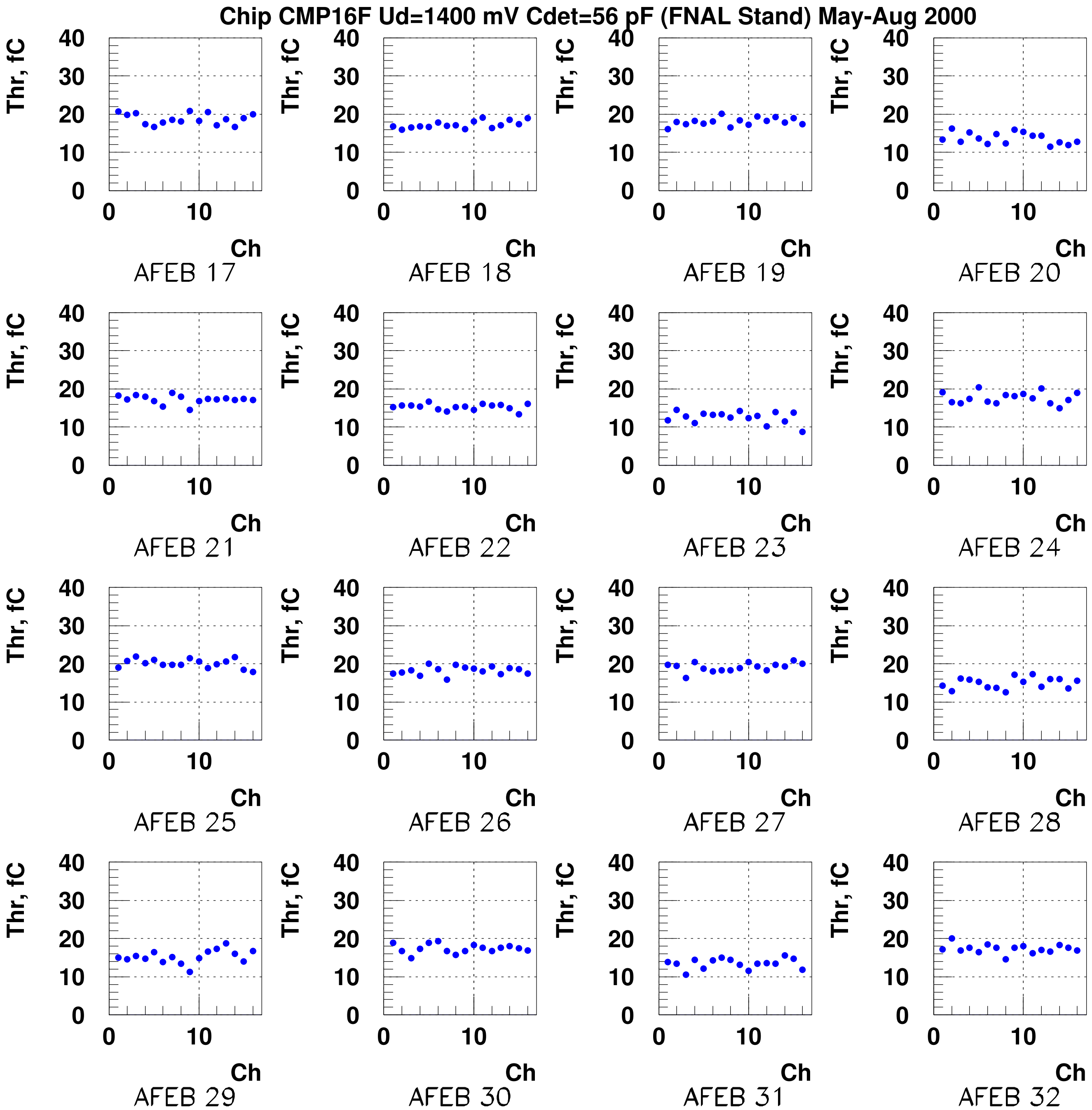


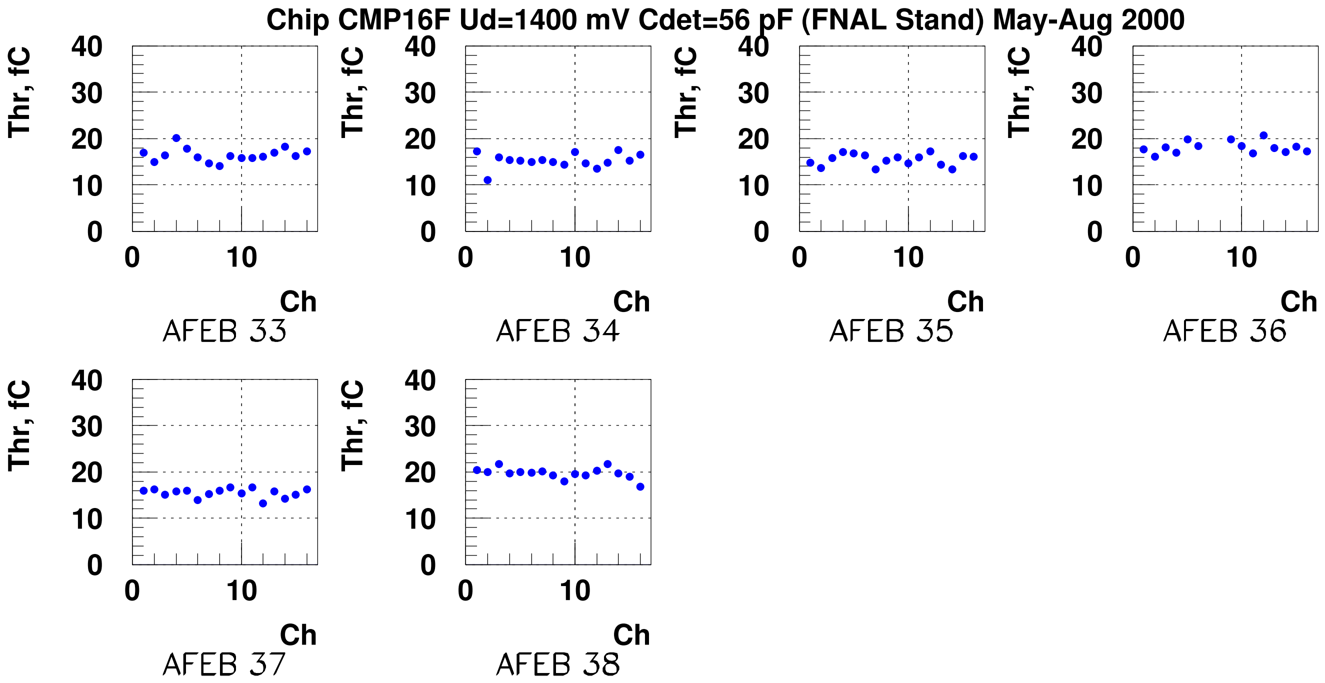
Chip CMP16F Cdet=56 pF (FNAL Stand) May-Aug 2000

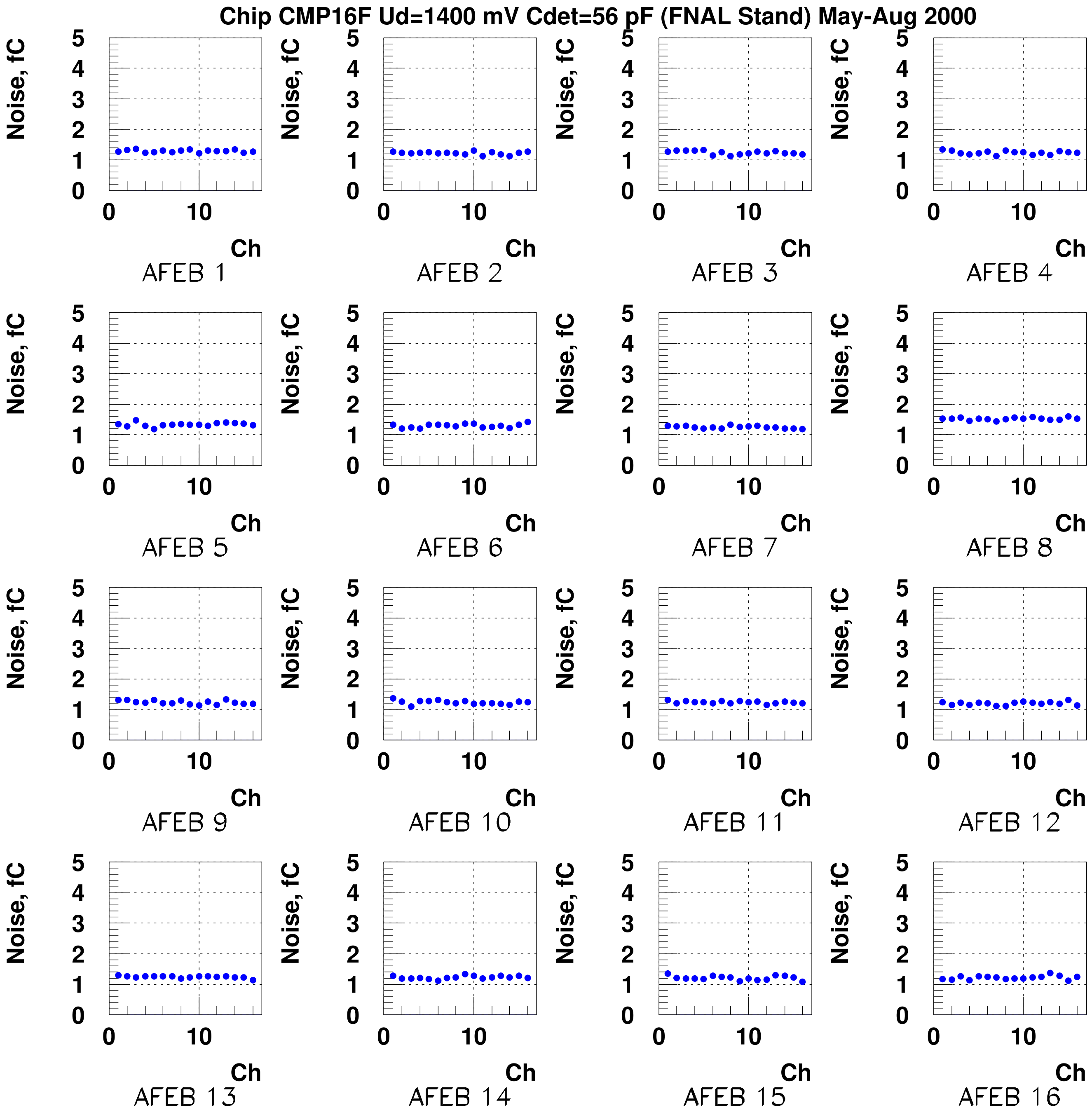


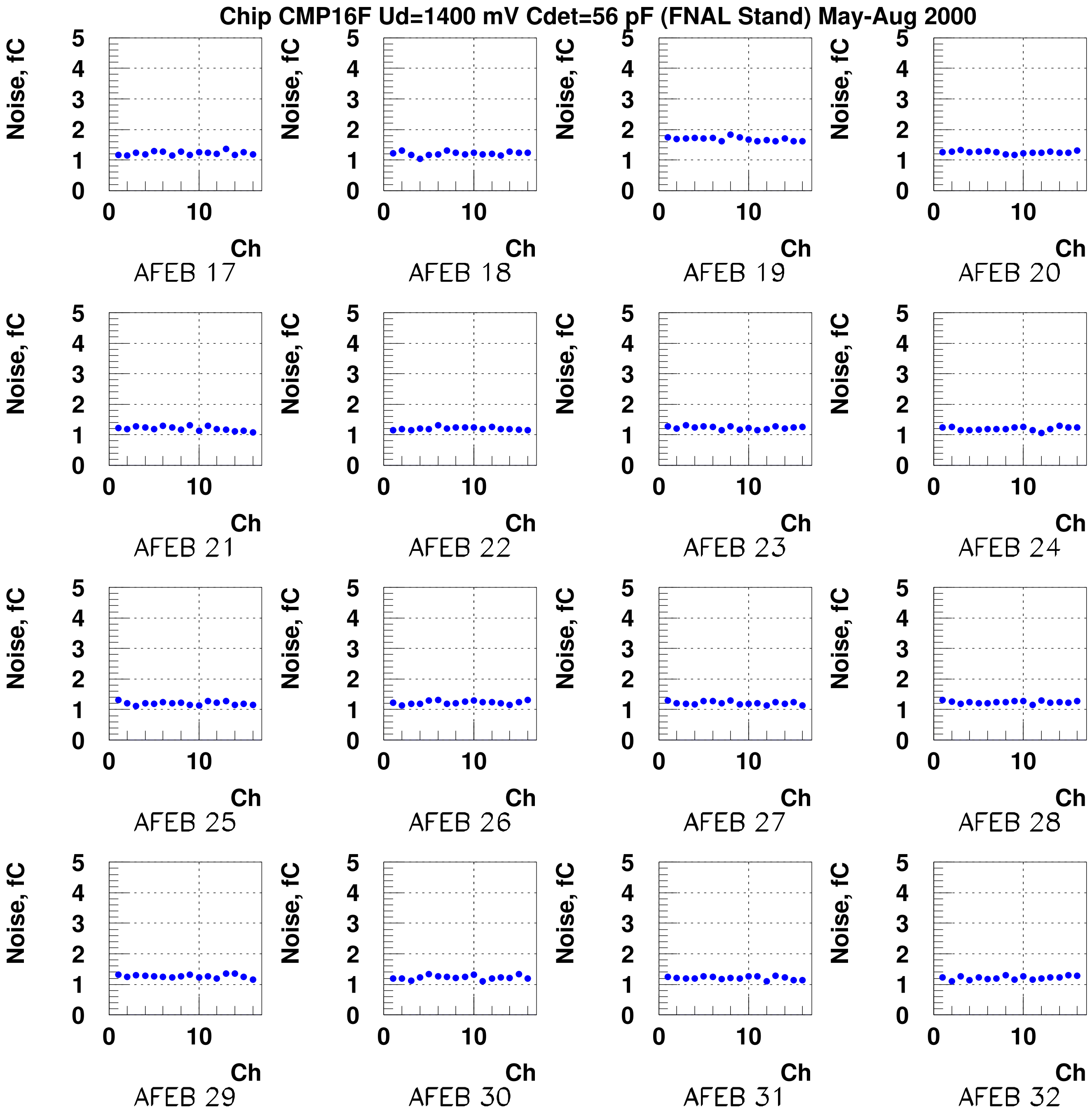
Chip CMP16F Ud=1400 mV Cdet=56 pF (FNAL Stand) May-Aug 2000



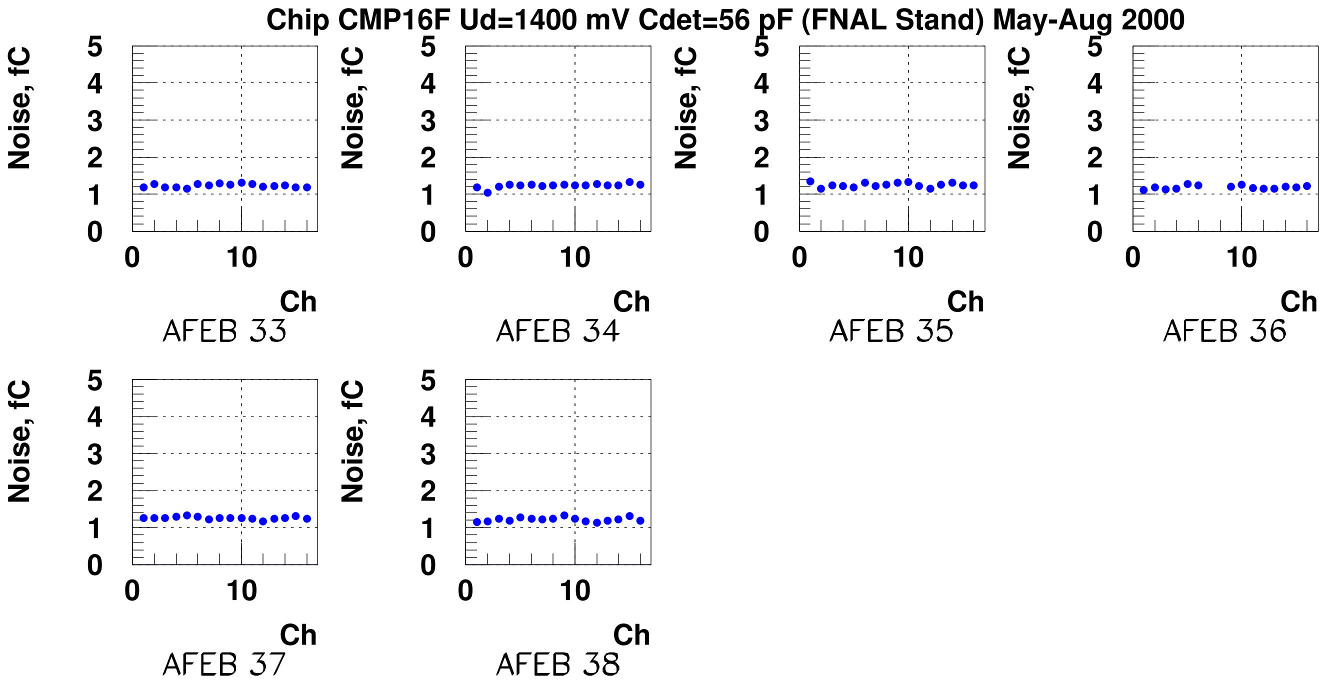

Chip CMP16F Ud=1400 mV Cdet=56 pF (FNAL Stand) May-Aug 2000
Thr, fC
Ch
AFEB 17
AFEB 18
AFEB 19
AFEB 20
AFEB 21
AFEB 22
AFEB 23
AFEB 24
AFEB 25
AFEB 26
AFEB 27
AFEB 28
AFEB 29
AFEB 30
AFEB 31
AFEB 32


Chip CMP16F Ud=1400 mV Cdet=56 pF (FNAL Stand) May-Aug 2000
Thr, fC
Ch
AFEB 33
AFEB 34
AFEB 35
AFEB 36
AFEB 37
AFEB 38

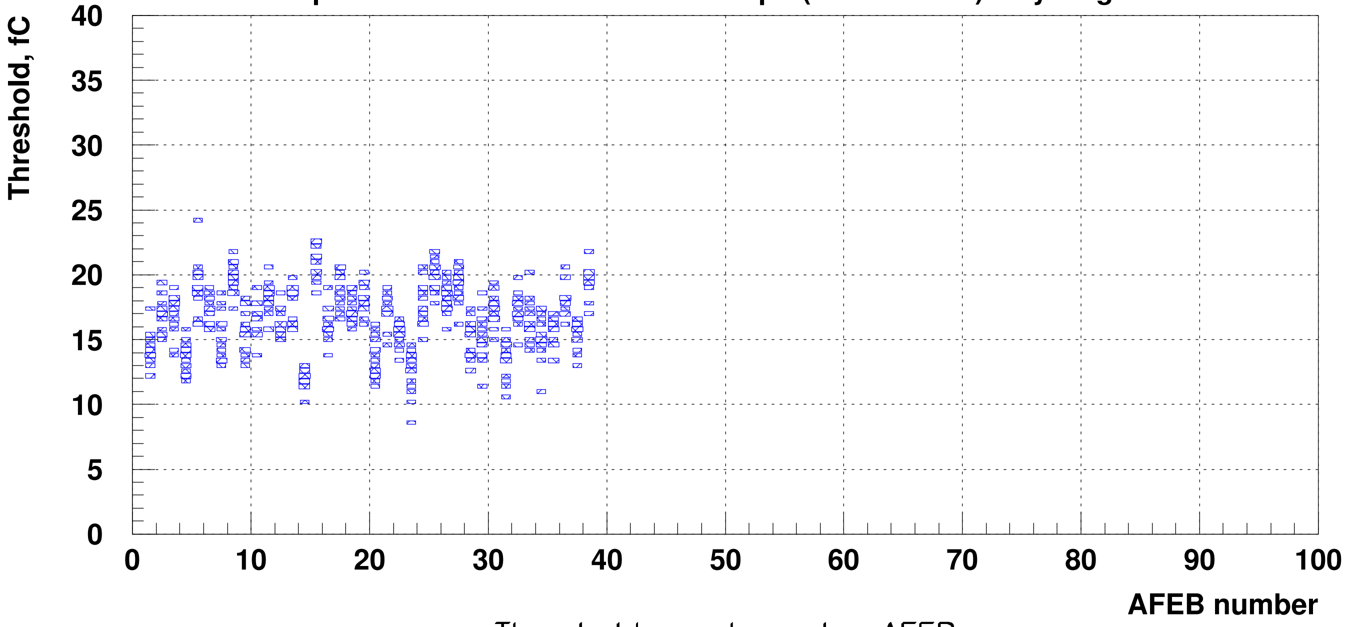

Chip CMP16F Ud=1400 mV Cdet=56 pF (FNAL Stand) May-Aug 2000
Noise, fC
Ch
AFEB 1
AFEB 2
AFEB 3
AFEB 4
AFEB 5
AFEB 6
AFEB 7
AFEB 8
AFEB 9
AFEB 10
AFEB 11
AFEB 12
AFEB 13
AFEB 14
AFEB 15
AFEB 16



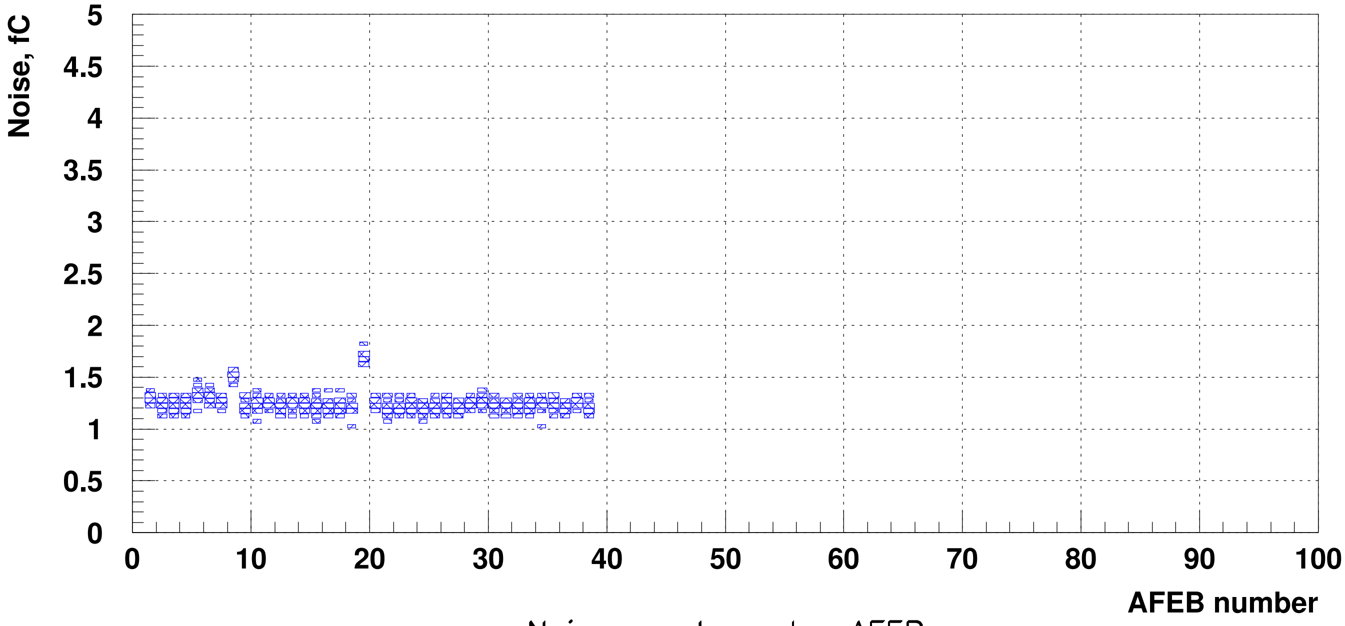
Chip CMP16F Ud=1400 mV Cdet=56 pF (FNAL Stand) May-Aug 2000
Noise, fC
Ch
AFEB 17
AFEB 18
AFEB 19
AFEB 20
AFEB 21
AFEB 22
AFEB 23
AFEB 24
AFEB 25
AFEB 26
AFEB 27
AFEB 28
AFEB 29
AFEB 30
AFEB 31
AFEB 32


Chip CMP16F Ud=1400 mV Cdet=56 pF (FNAL Stand) May-Aug 2000
Noise, fC
Ch
AFEB 33
AFEB 34
AFEB 35
AFEB 36
AFEB 37
AFEB 38

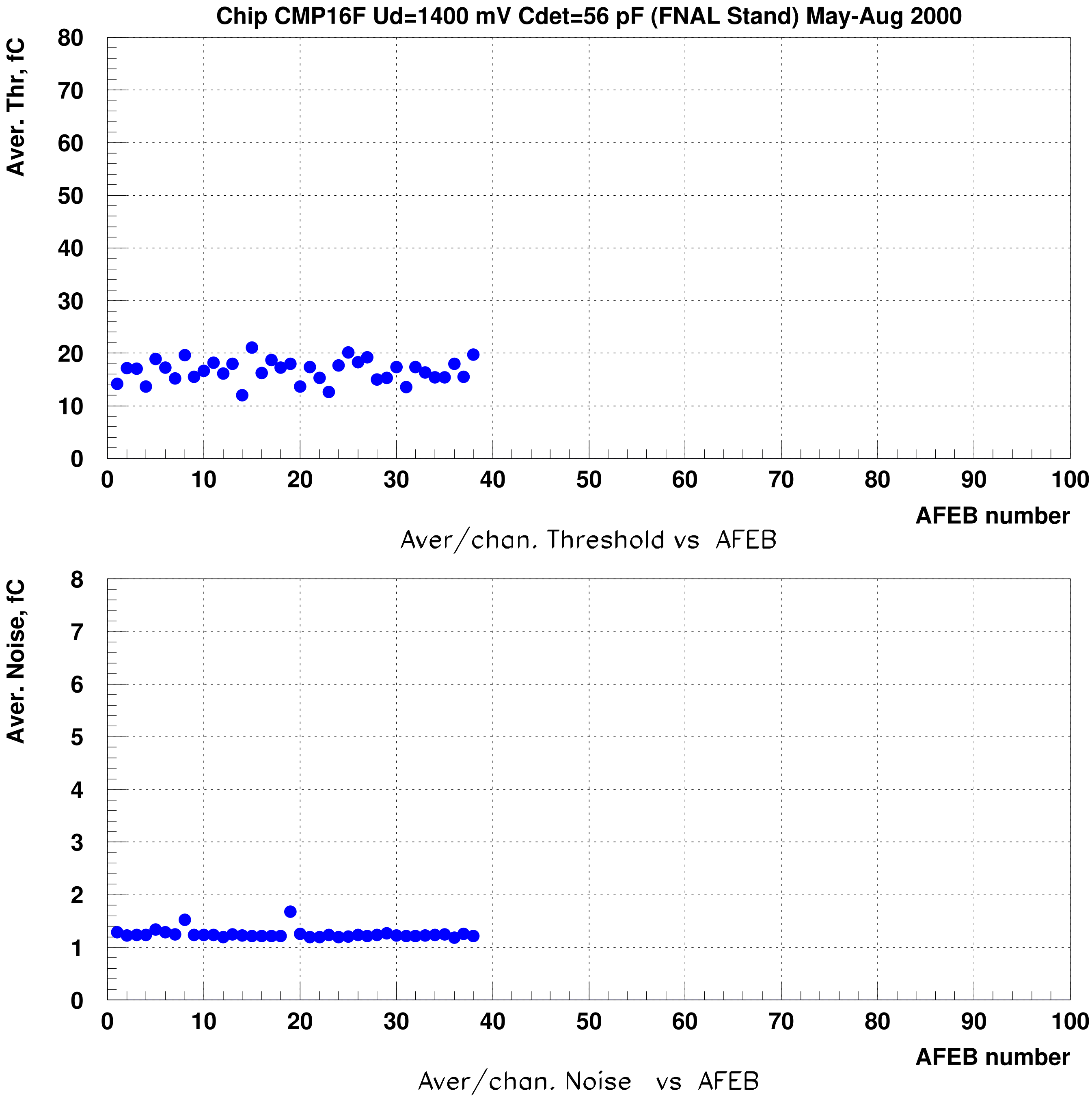
Chip CMP16F Ud=1400 mV Cdet=56 pF (FNAL Stand) May-Aug 2000

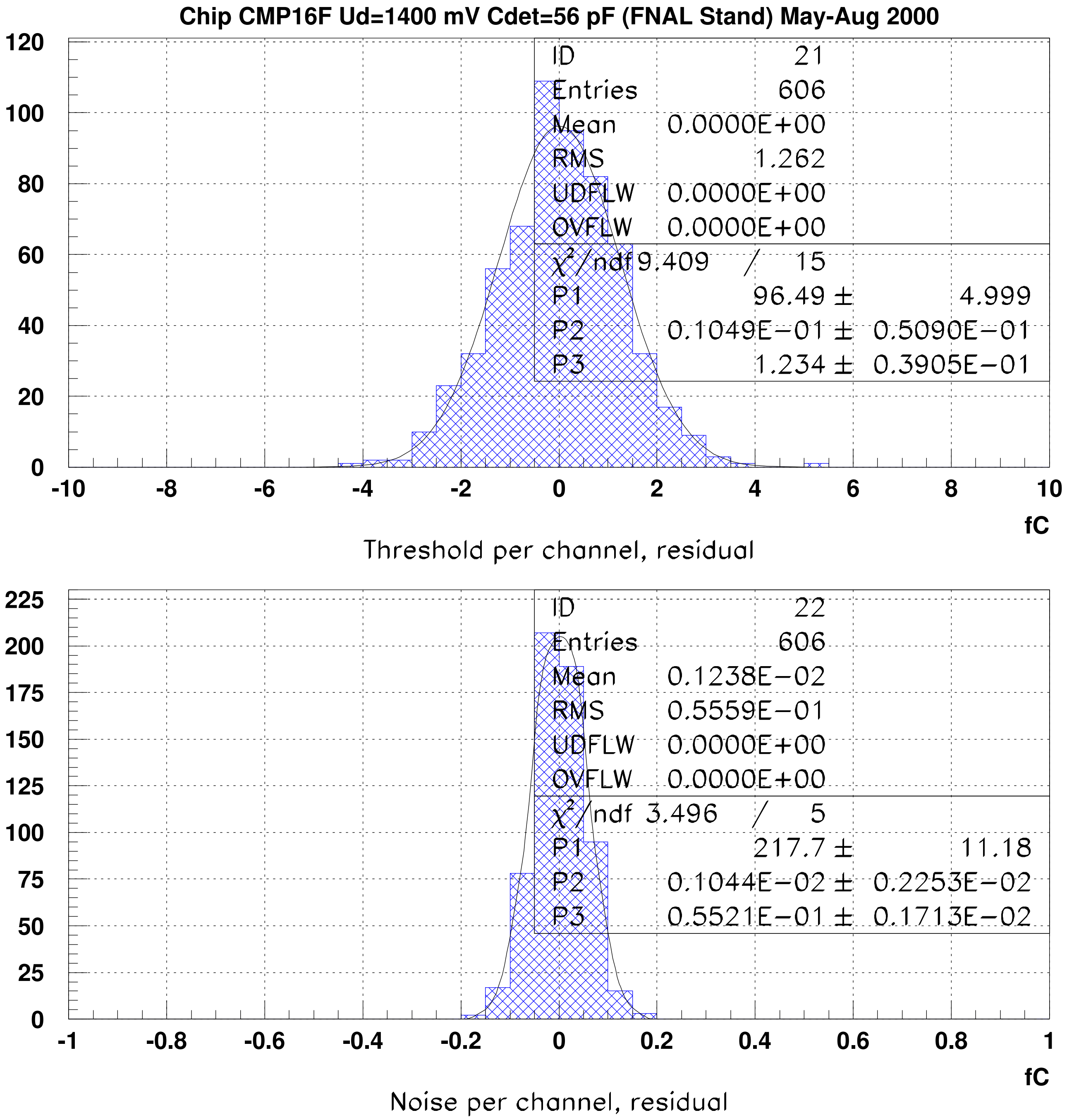


Threshold per channel vs AFEB

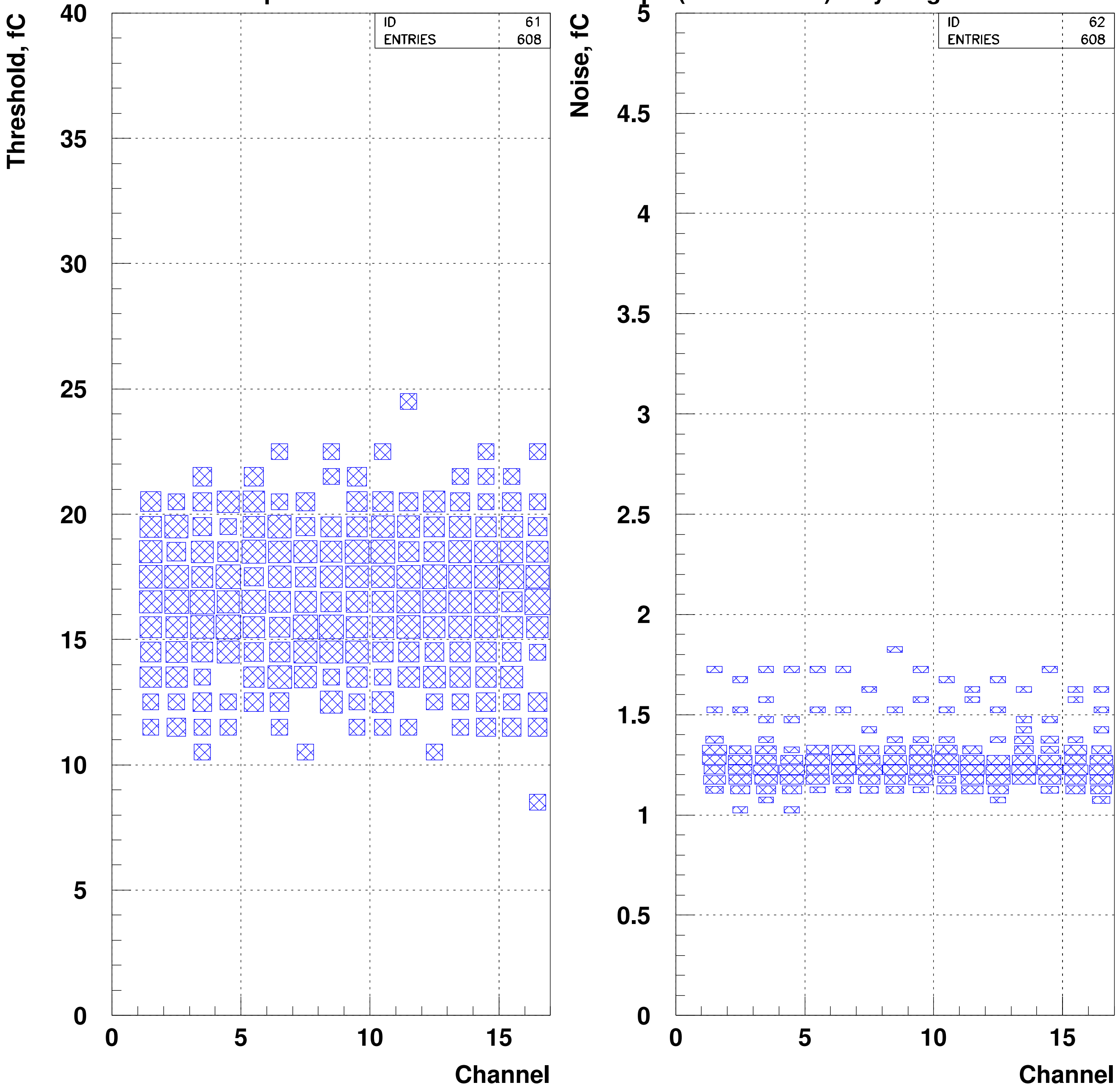


Noise per channel vs AFEB


Chip CMP16F Ud=1400 mV Cdet=56 pF (FNAL Stand) May-Aug 2000
Aver. Thr, fC
80
70
60
50
40
30
20
10
0
0
10
20
30
40
50
60
70
80
90
100
AFEB number
Aver/chan. Threshold vs AFEB
Aver. Noise, fC
8
7
6
5
4
3
2
1
0
0
10
20
30
40
50
60
70
80
90
100
AFEB number
Aver/chan. Noise vs AFEB

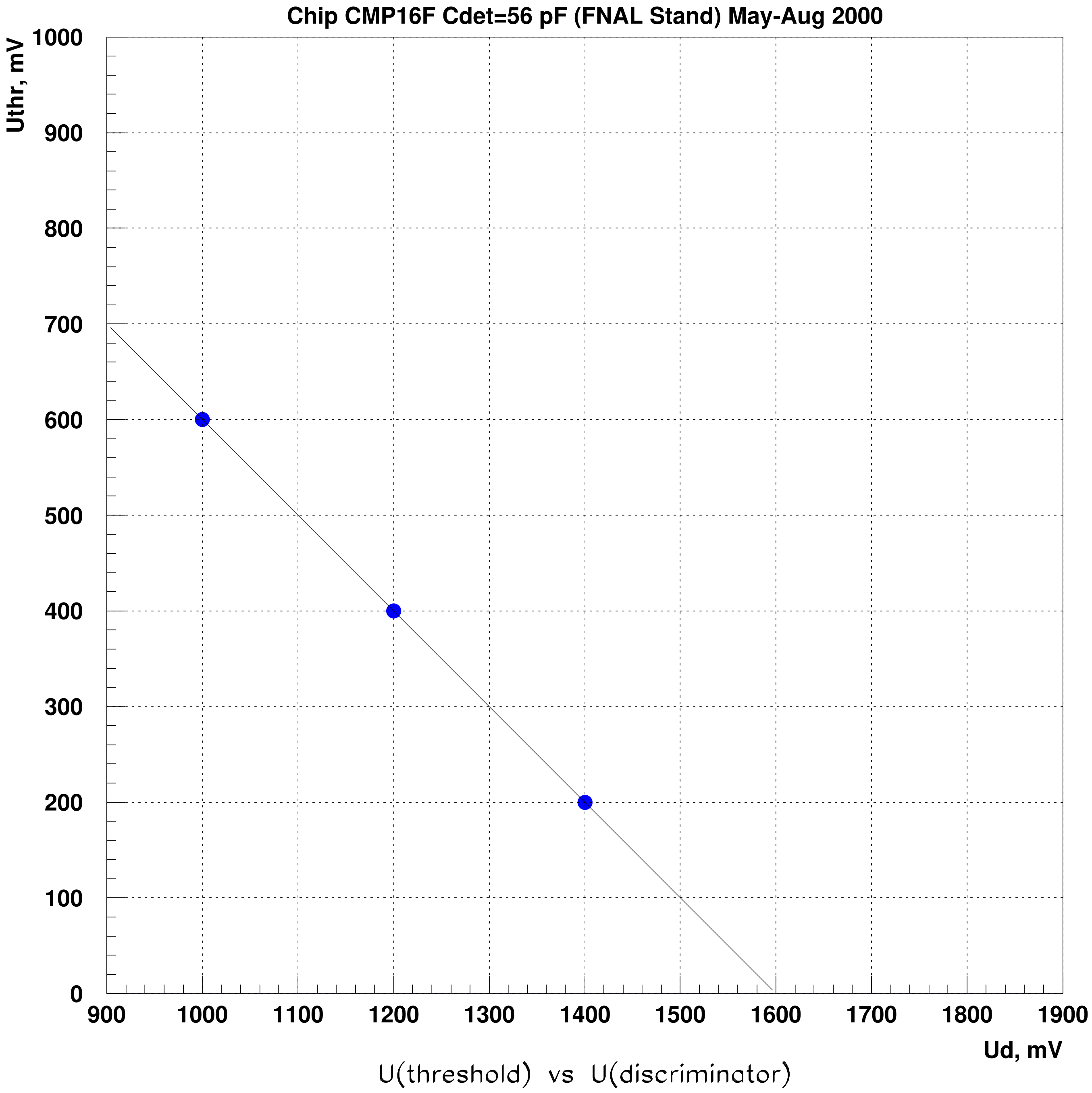

Chip CMP16F Ud=1400 mV Cdet=56 pF (FNAL Stand) May-Aug 2000
ID 21
Entries 606
Mean 0.0000E+00
RMS 1.262
UDFLW 0.0000E+00
OVFLW 0.0000E+00
χ²/ndf 9.409 / 15
P1 96.49 ± 4.999
P2 0.1049E−01 ± 0.5090E−01
P3 1.234 ± 0.3905E−01
fC
Threshold per channel, residual
ID 22
Entries 606
Mean 0.1238E−02
RMS 0.5559E−01
UDFLW 0.0000E+00
OVFLW 0.0000E+00
χ²/ndf 3.496 / 5
P1 217.7 ± 11.18
P2 0.1044E−02 ± 0.2253E−02
P3 0.5521E−01 ± 0.1713E−02
fC
Noise per channel, residual

Chip CMP16F Ud=1400 mV Cdet=56 pF (FNAL Stand) May-Aug 2000

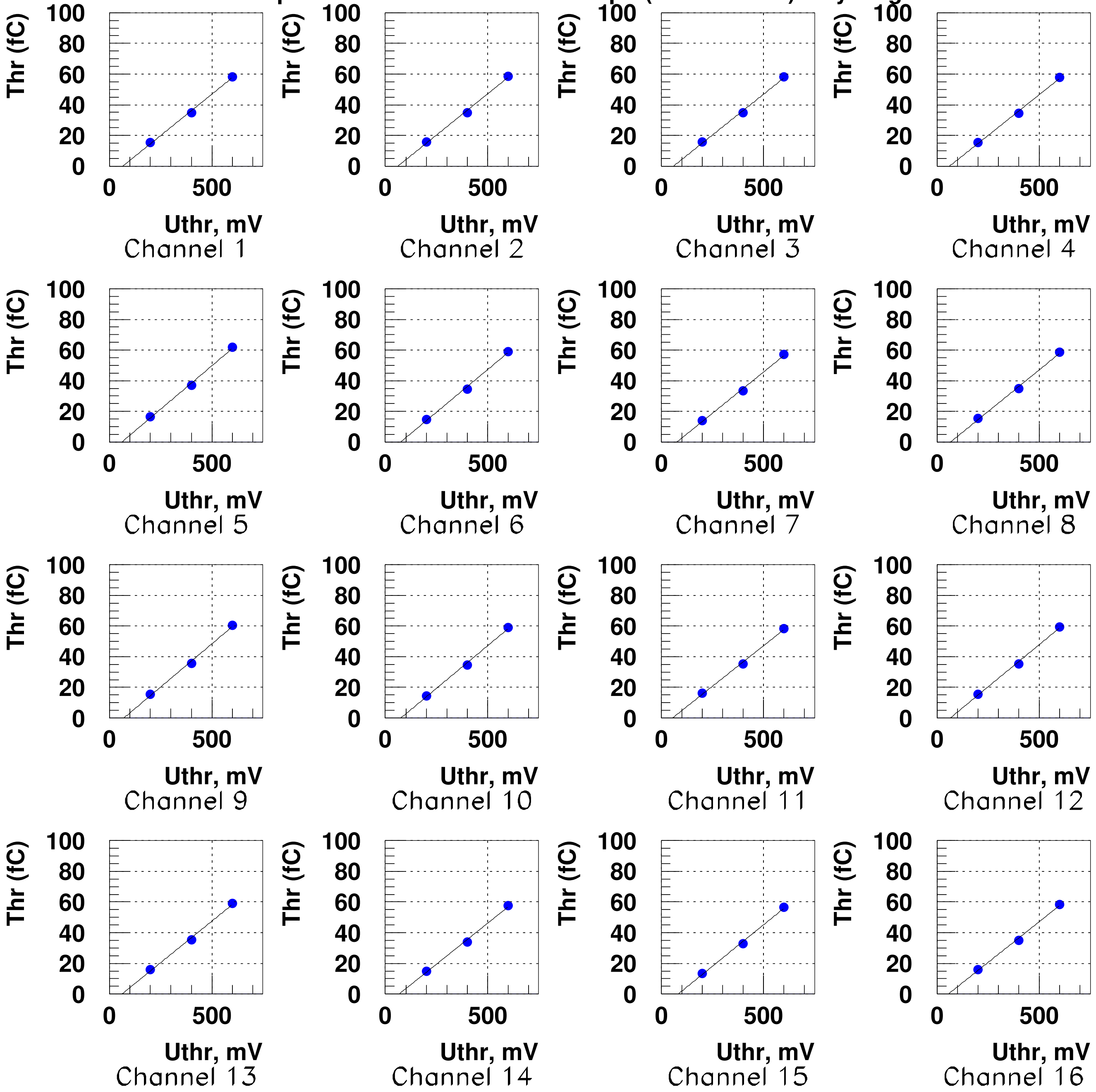


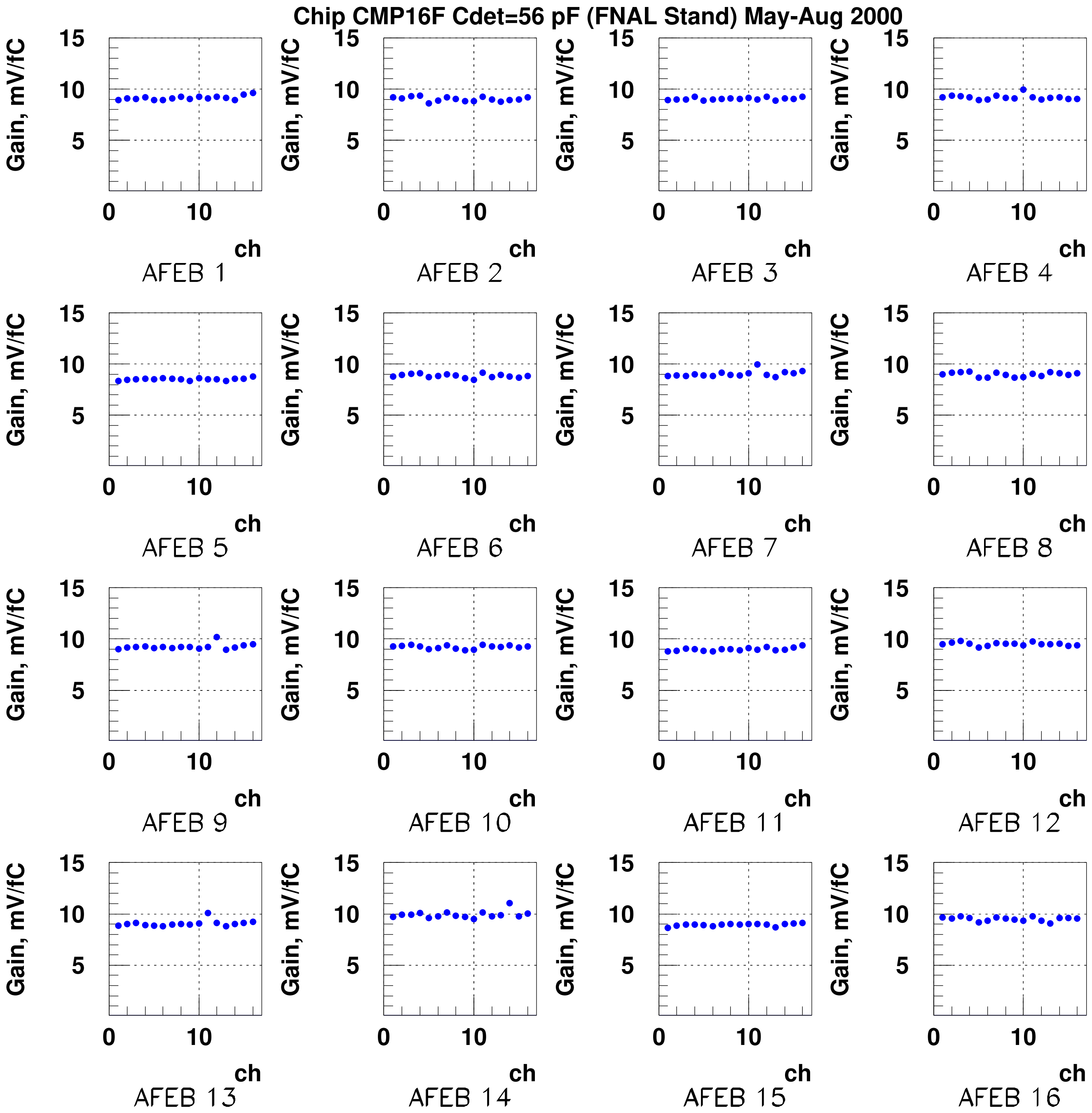
Threshold vs channel number, all AFEBs

Noise vs channel number, all AFEBs

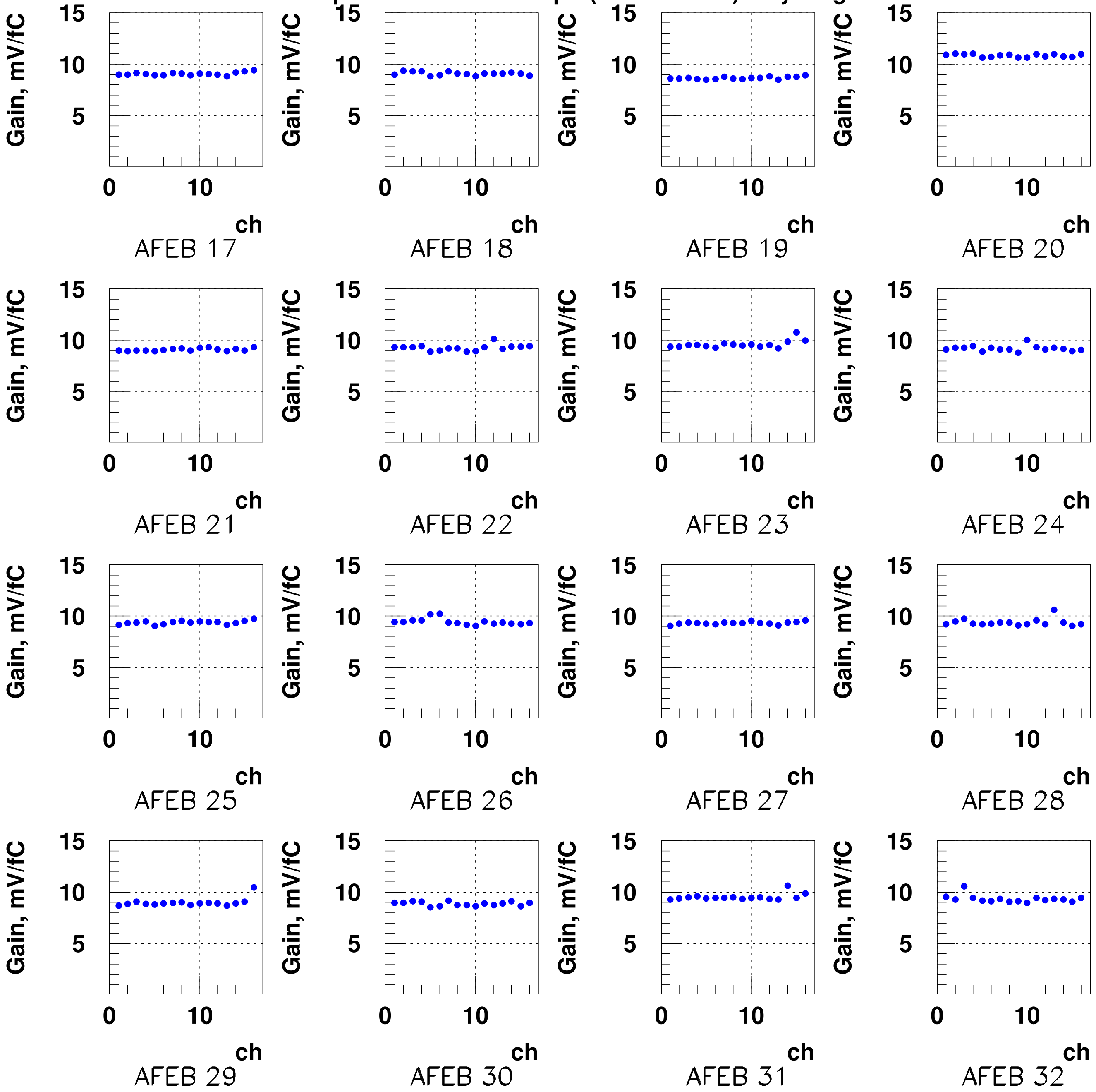

Chip CMP16F Cdet=56 pF (FNAL Stand) May-Aug 2000
Uthr, mV
1000
900
800
700
600
500
400
300
200
100
0
900
1000
1100
1200
1300
1400
1500
1600
1700
1800
1900
Ud, mV
U(threshold) vs U(discriminator)

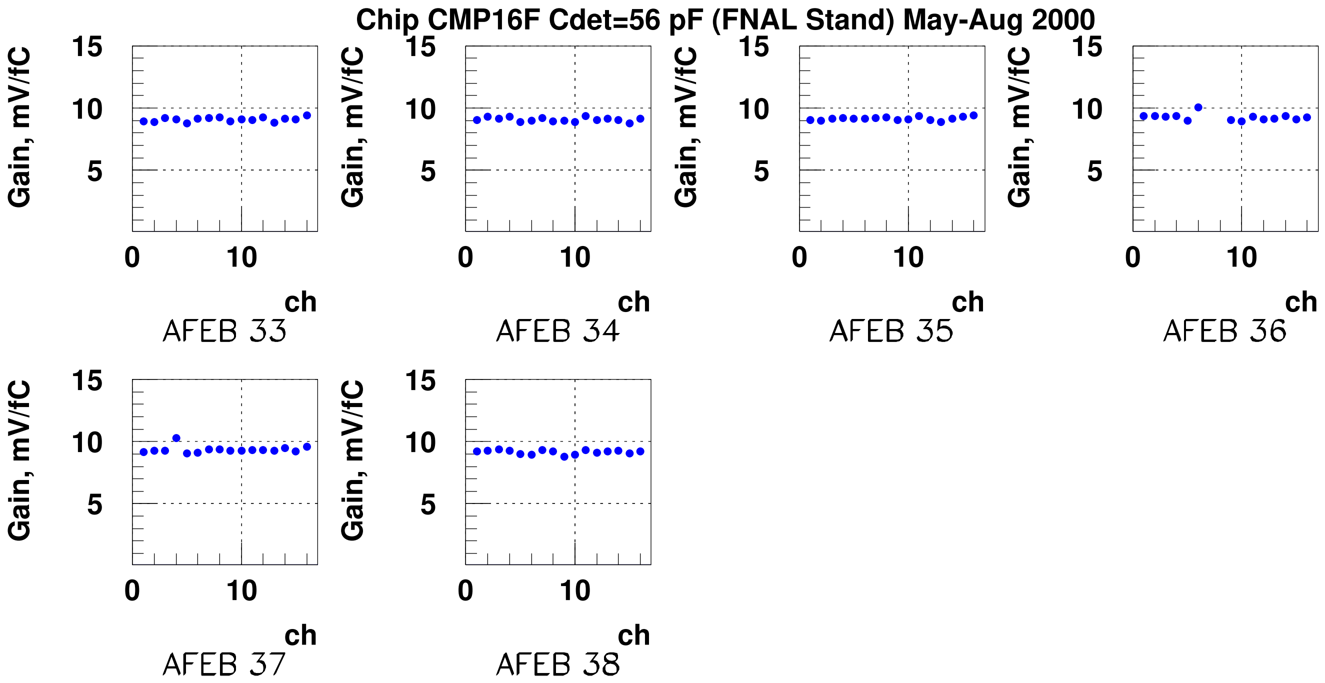
Chip CMP16F AFEB=22 Cdet=56 pF (FNAL Stand) May-Aug 2000



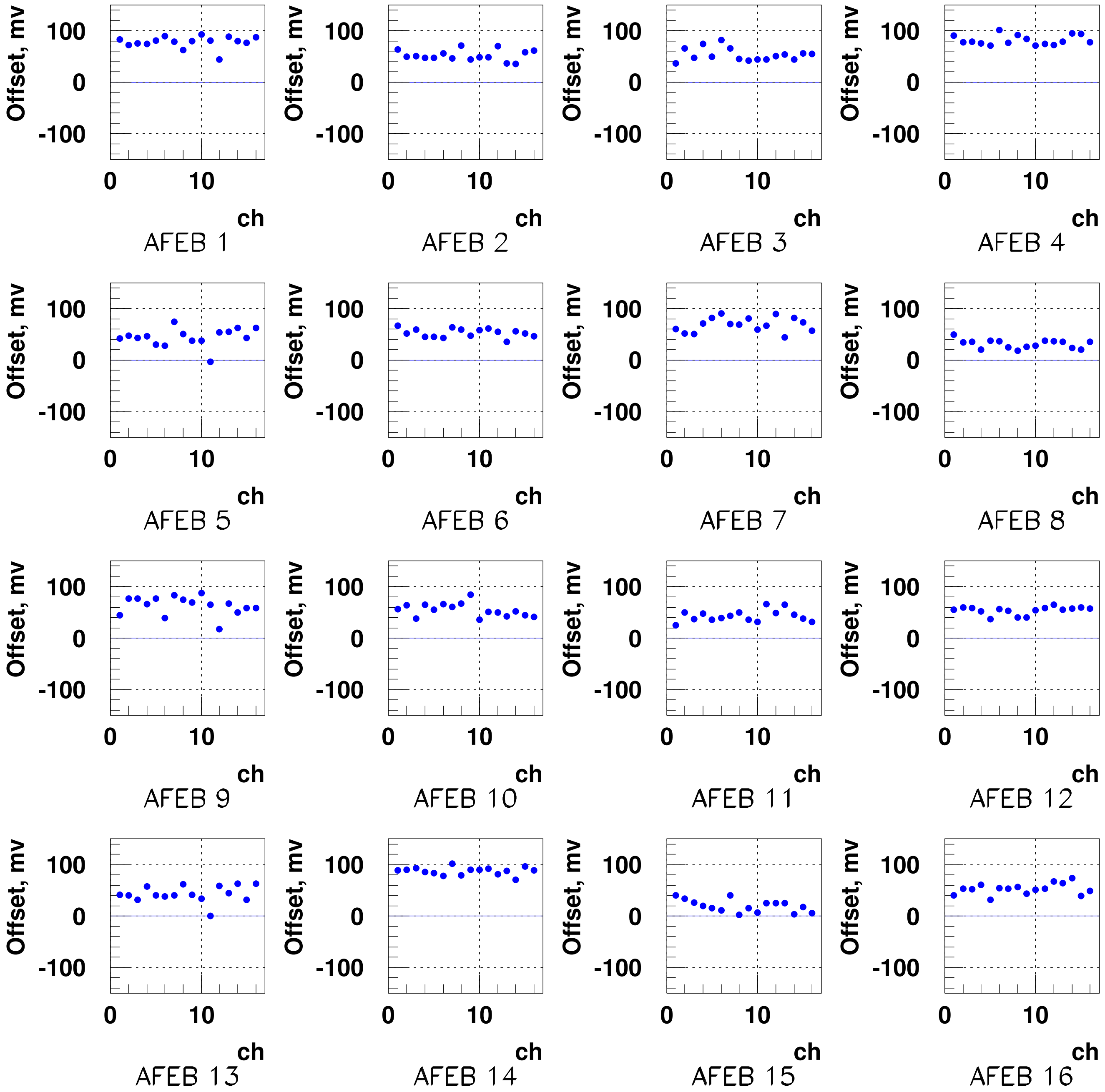

Chip CMP16F Cdet=56 pF (FNAL Stand) May-Aug 2000
Gain, mV/fC
ch
AFEB 1
AFEB 2
AFEB 3
AFEB 4
AFEB 5
AFEB 6
AFEB 7
AFEB 8
AFEB 9
AFEB 10
AFEB 11
AFEB 12
AFEB 13
AFEB 14
AFEB 15
AFEB 16

Chip CMP16F Cdet=56 pF (FNAL Stand) May-Aug 2000

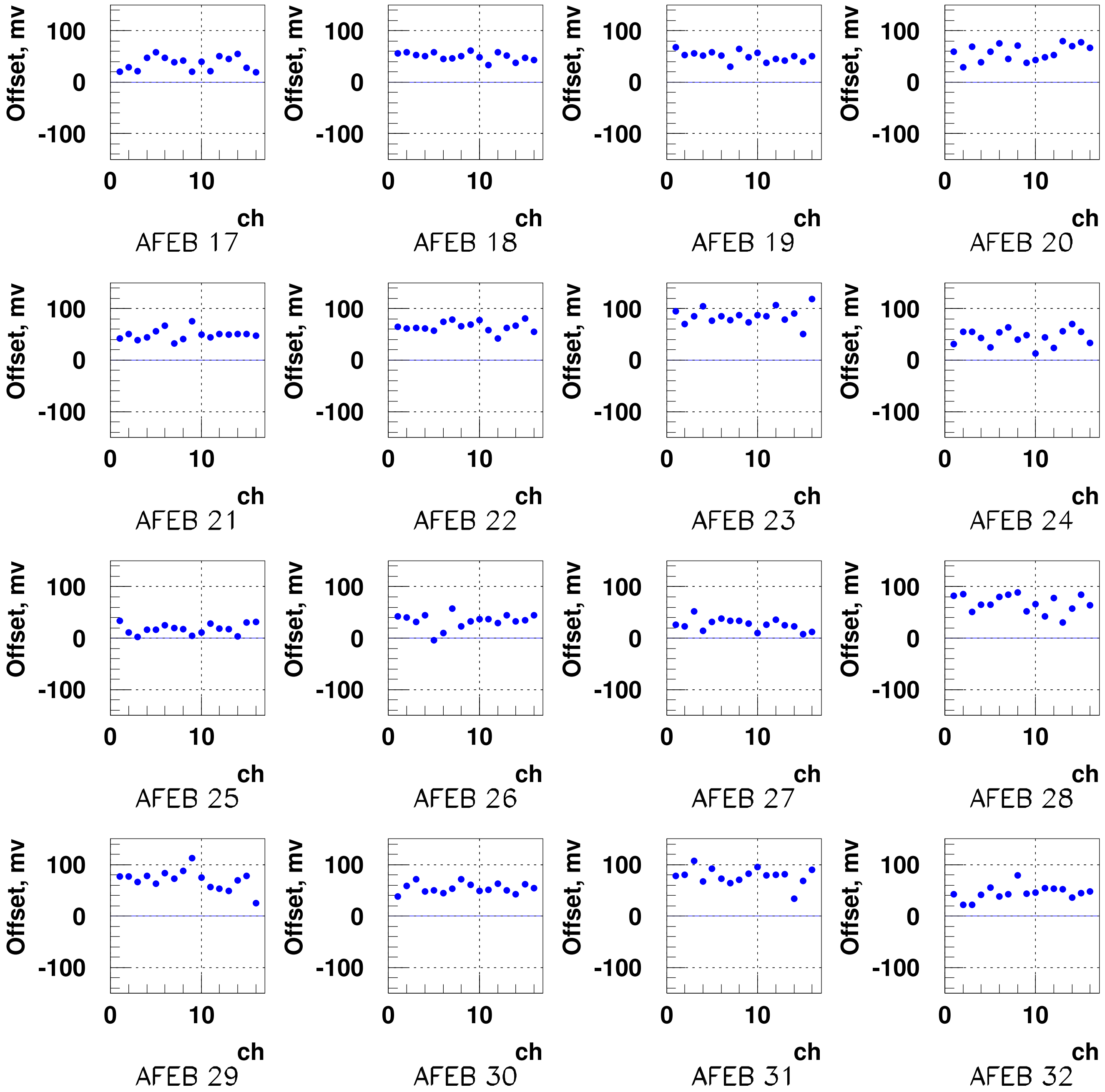



Chip CMP16F Cdet=56 pF (FNAL Stand) May-Aug 2000
Gain, mV/fC
15
10
5
0
10
ch
AFEB 33
AFEB 34
AFEB 35
AFEB 36
AFEB 37
AFEB 38

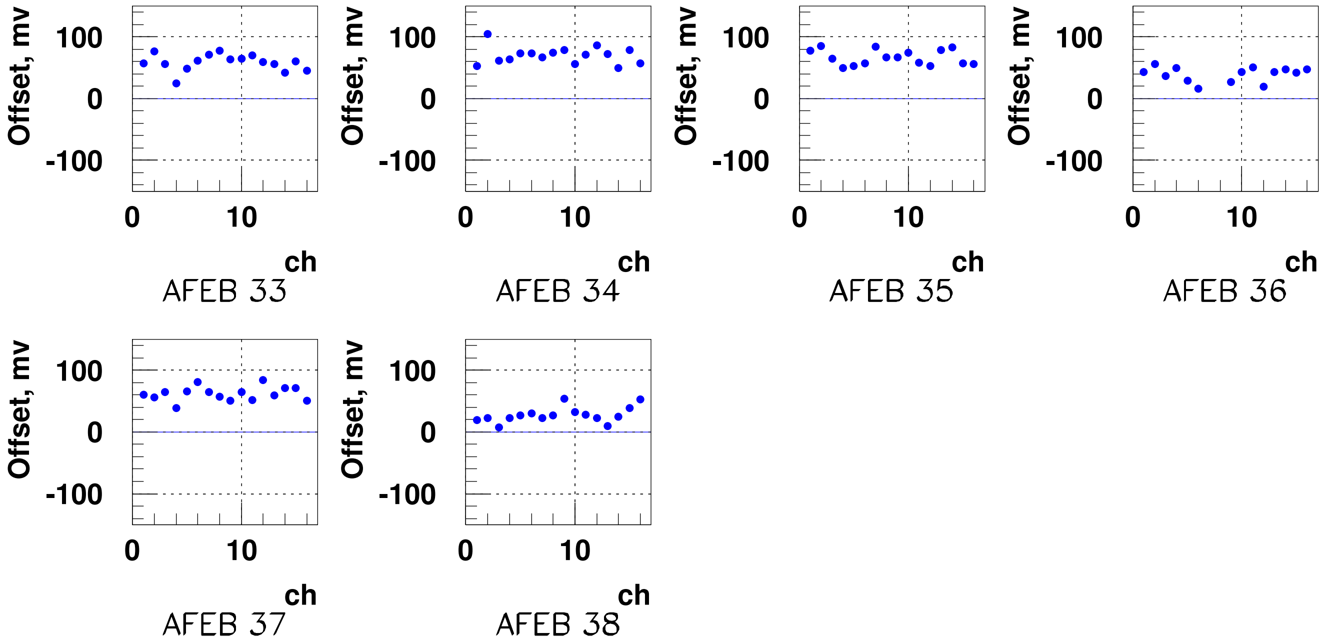
Chip CMP16F Cdet=56 pF (FNAL Stand) May-Aug 2000

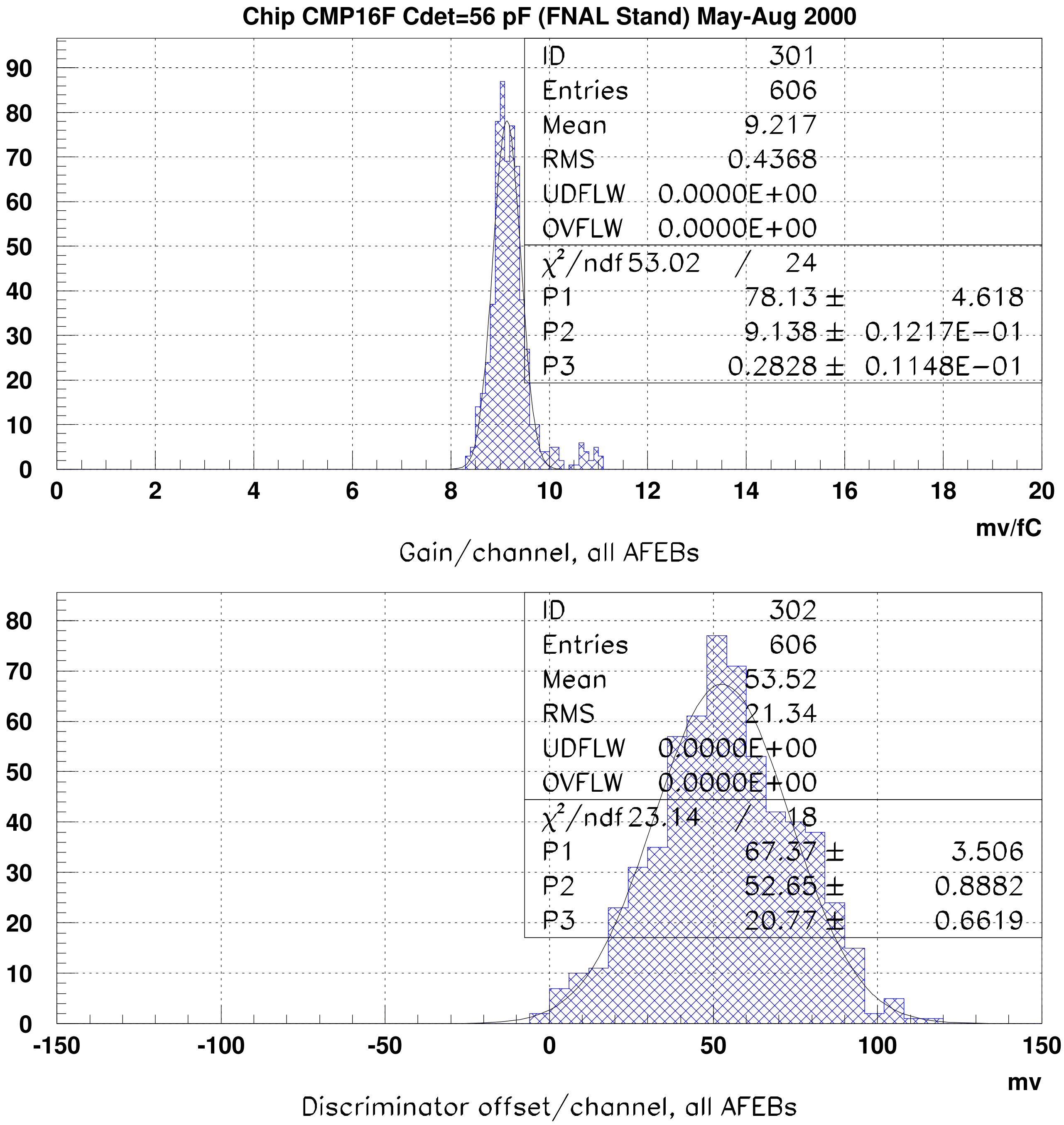


Chip CMP16F Cdet=56 pF (FNAL Stand) May-Aug 2000

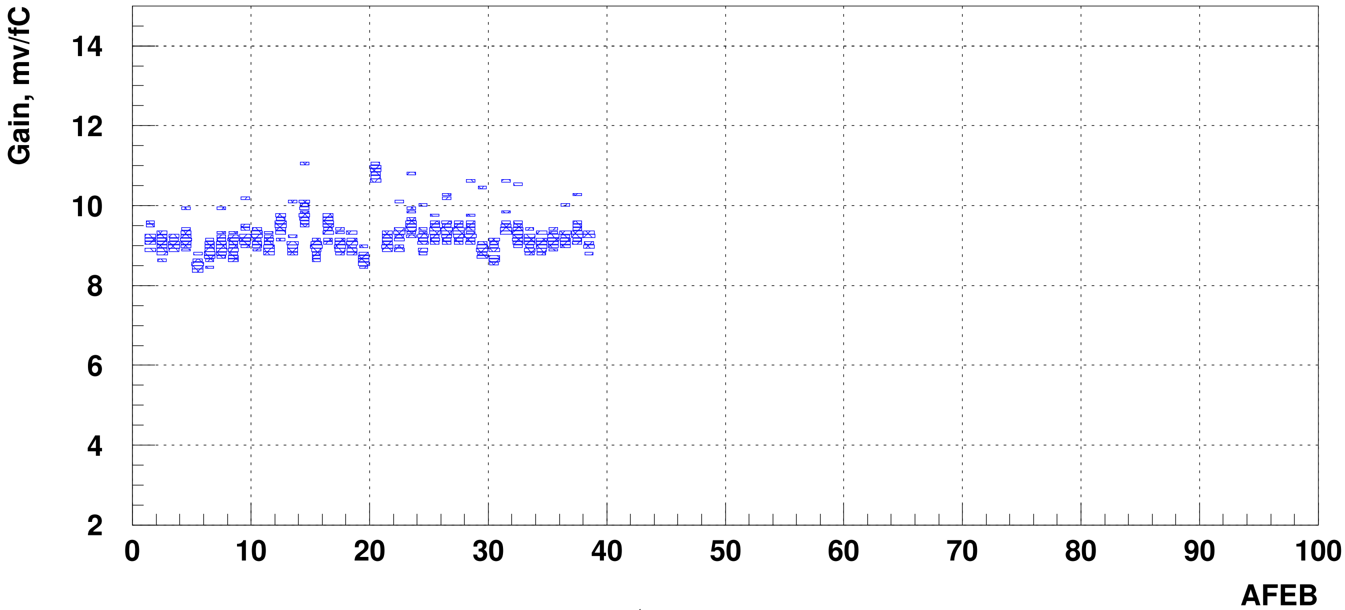


Chip CMP16F Cdet=56 pF (FNAL Stand) May-Aug 2000

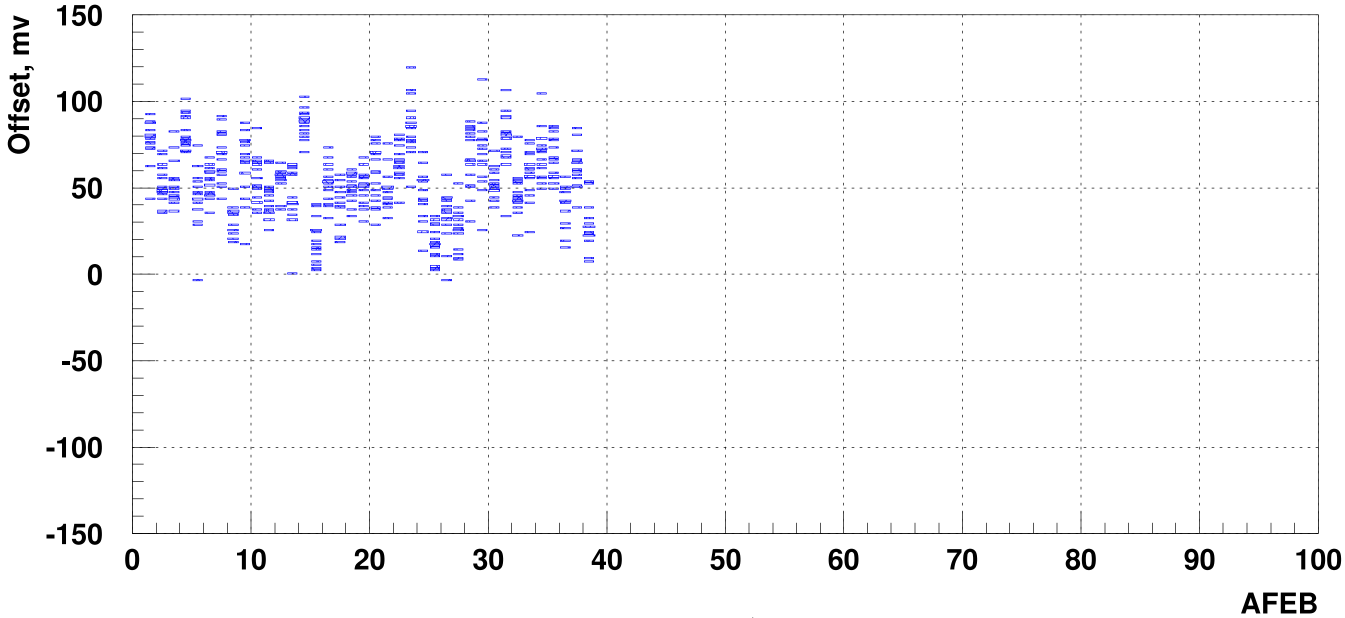



Chip CMP16F Cdet=56 pF (FNAL Stand) May-Aug 2000
ID 301
Entries 606
Mean 9.217
RMS 0.4368
UDFLW 0.0000E+00
OVFLW 0.0000E+00
χ^2/ndf 53.02 / 24
P1 78.13 ± 4.618
P2 9.138 ± 0.1217E−01
P3 0.2828 ± 0.1148E−01
mv/fC
Gain/channel, all AFEBs
ID 302
Entries 606
Mean 53.52
RMS 21.34
UDFLW 0.0000E+00
OVFLW 0.0000E+00
χ^2/ndf 23.14 / 18
P1 67.37 ± 3.506
P2 52.65 ± 0.8882
P3 20.77 ± 0.6619
mv
Discriminator offset/channel, all AFEBs

Chip CMP16F Cdet=56 pF (FNAL Stand) May-Aug 2000

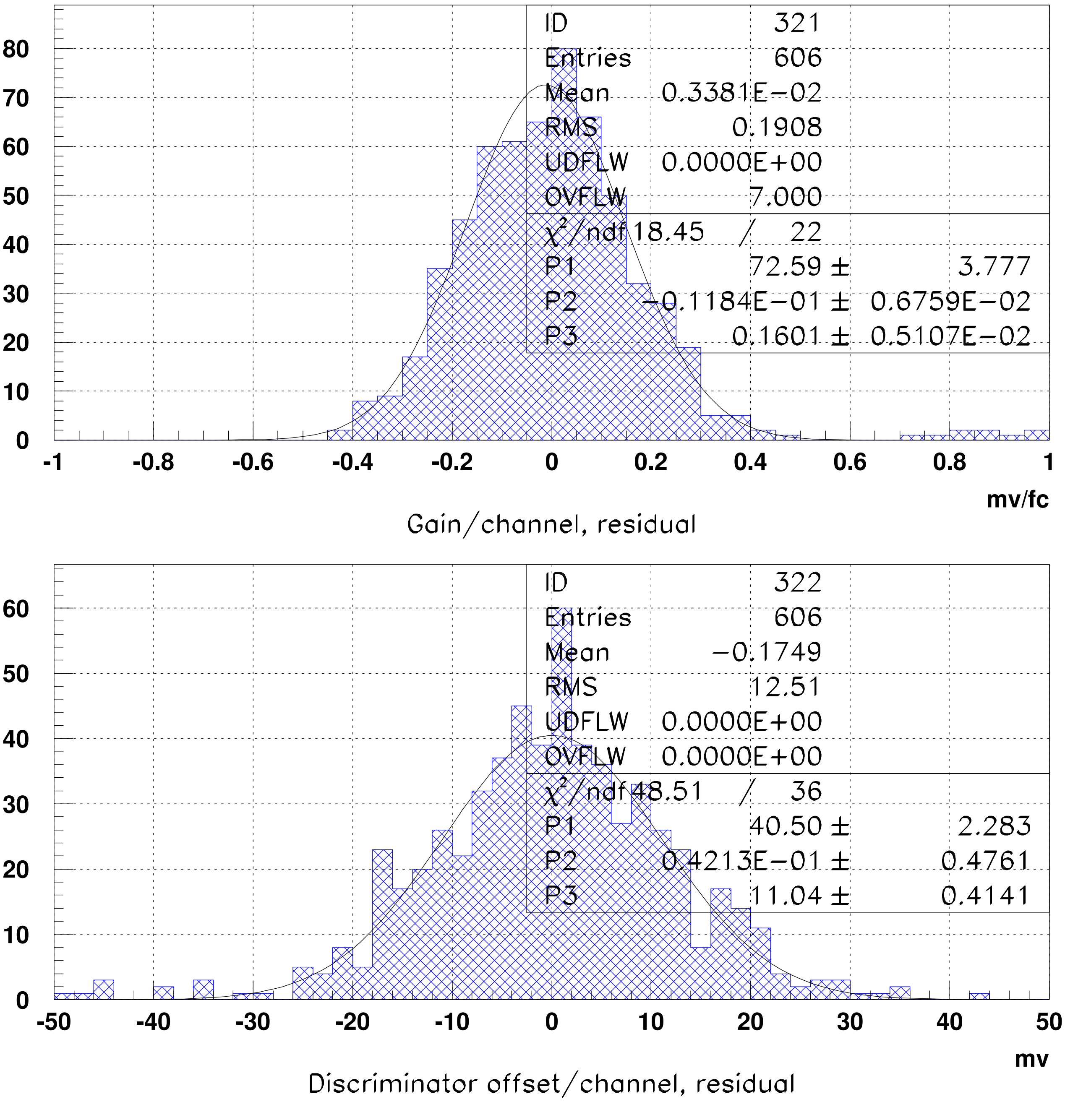


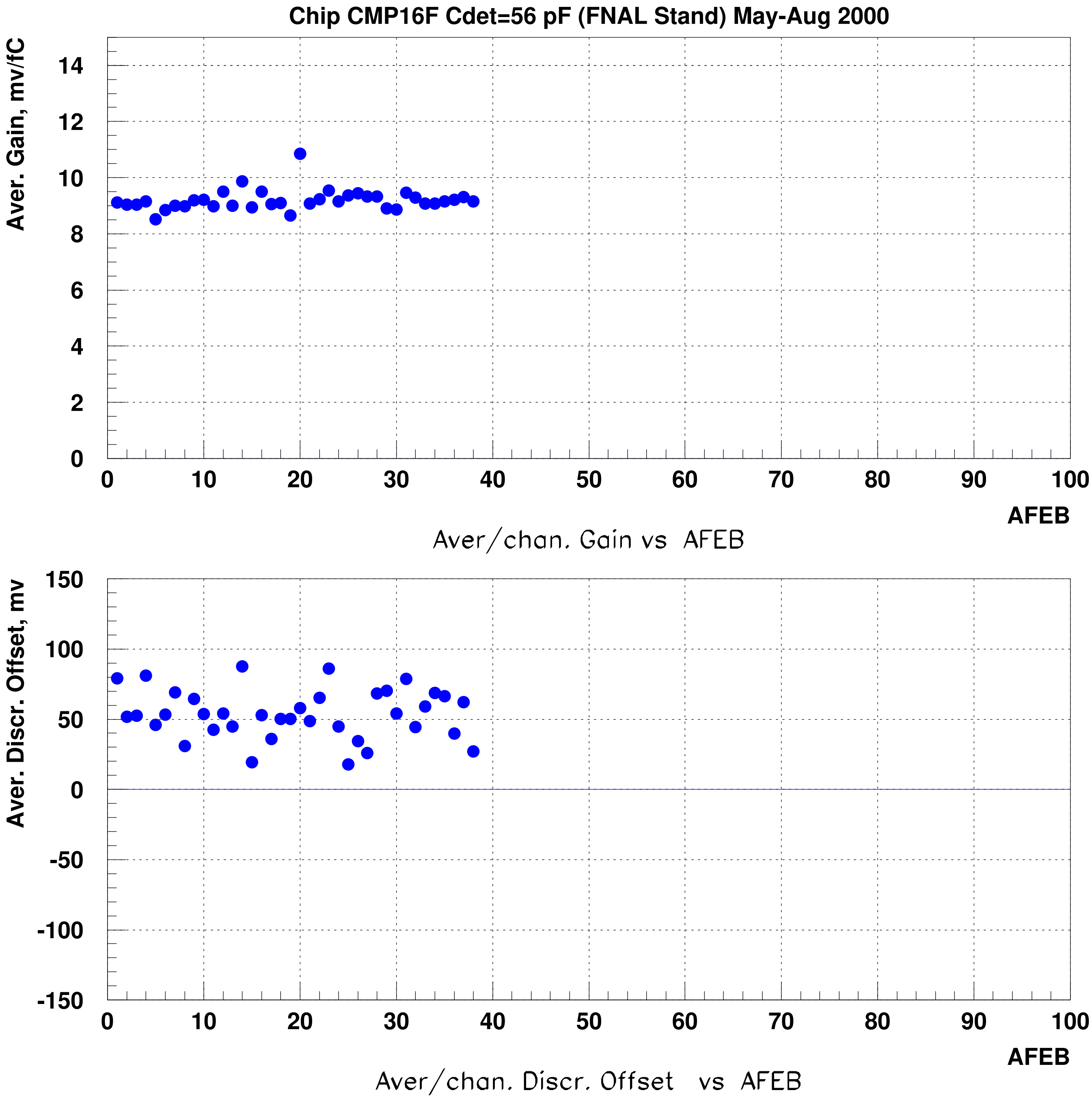
Gain/channel vs AFEB



Discriminator offset/channel vs AFEB

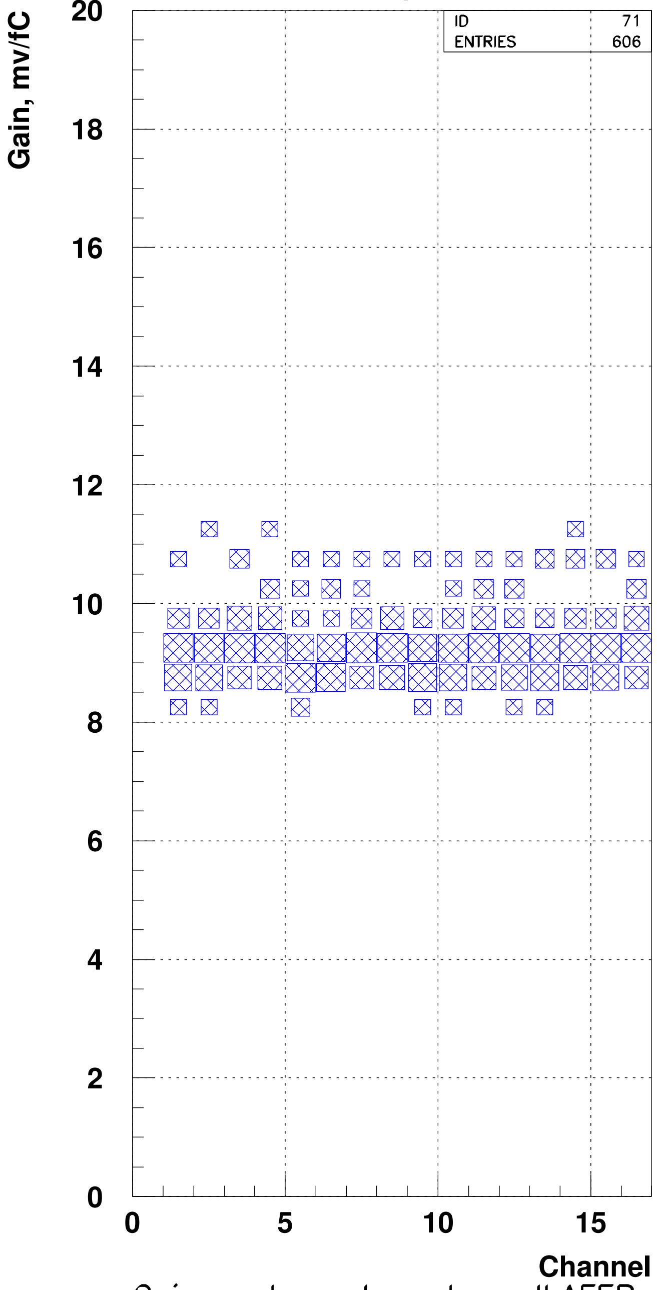
Chip CMP16F Cdet=56 pF (FNAL Stand) May-Aug 2000



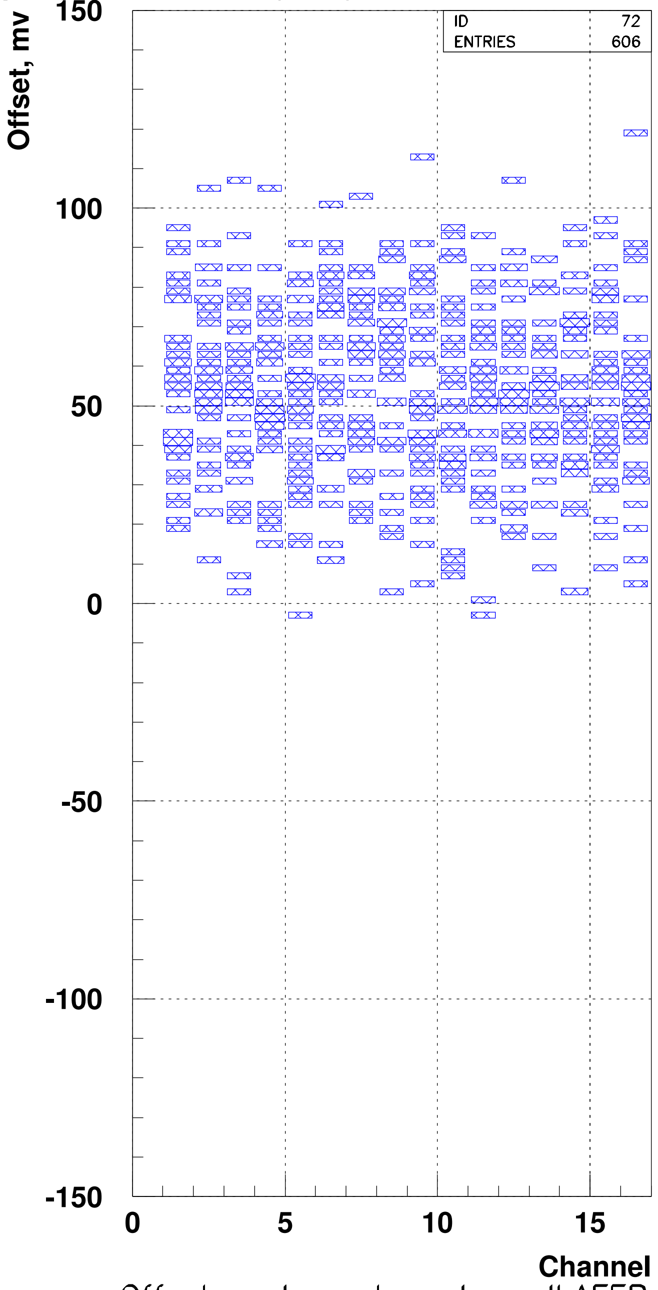


Chip CMP16F Cdet=56 pF (FNAL Stand) May-Aug 2000
Aver. Gain, mv/fC
14
12
10
8
6
4
2
0
0
10
20
30
40
50
60
70
80
90
100
AFEB
Aver/chan. Gain vs AFEB
Aver. Discr. Offset, mv
150
100
50
0
-50
-100
-150
0
10
20
30
40
50
60
70
80
90
100
AFEB
Aver/chan. Discr. Offset vs AFEB

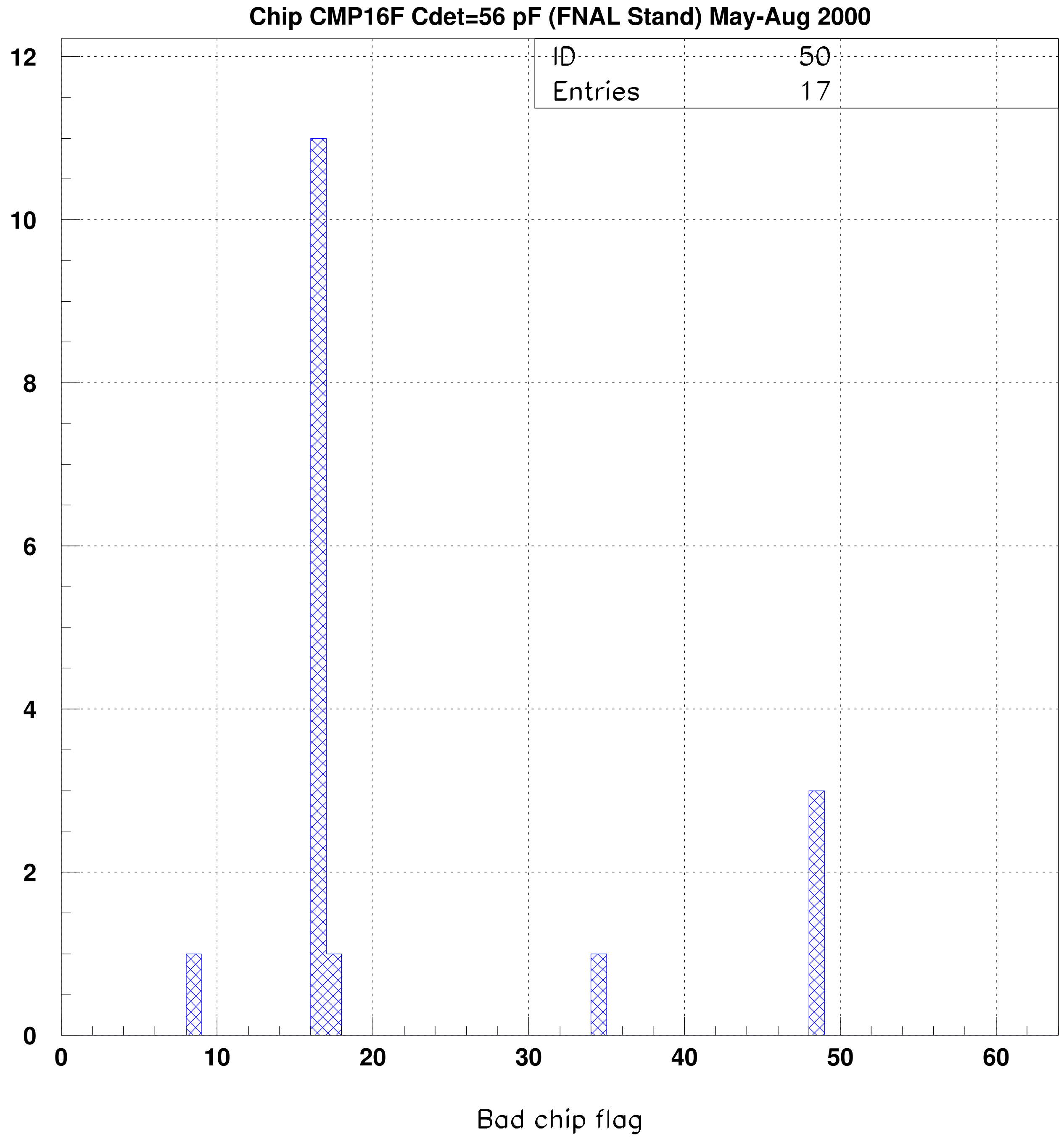
Chip CMP16F Cdet=56 pF (FNAL Stand) May-Aug 2000

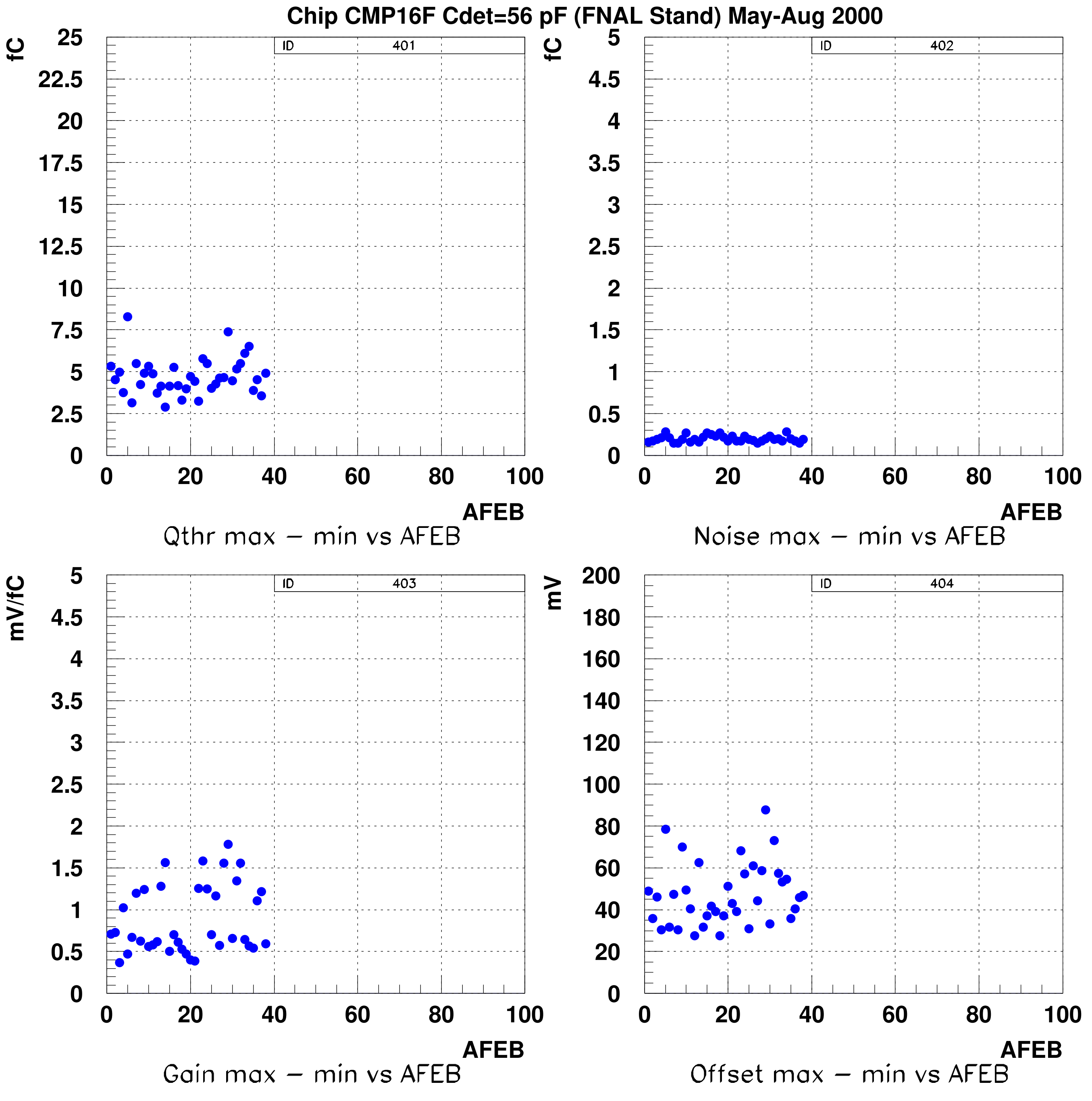


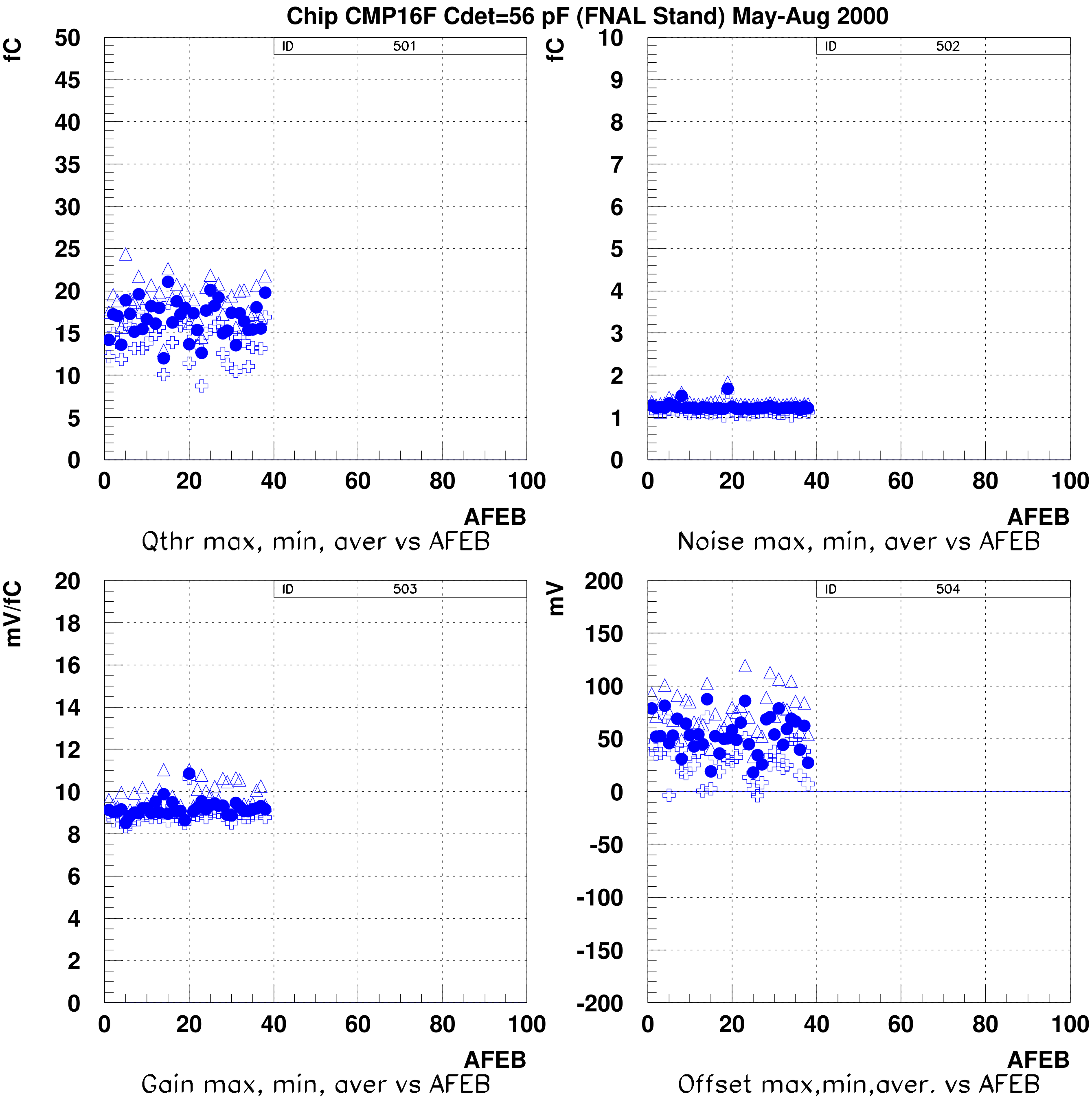
Gain vs channel number, all AFEBs



Offset vs channel number, all AFEBs


Chip CMP16F Cdet=56 pF (FNAL Stand) May-Aug 2000
ID 50
Entries 17
0
2
4
6
8
10
12
0
10
20
30
40
50
60
Bad chip flag


Chip CMP16F Cdet=56 pF (FNAL Stand) May-Aug 2000
fC
ID 401
AFEB
Qthr max − min vs AFEB
fC
ID 402
AFEB
Noise max − min vs AFEB
mV/fC
ID 403
AFEB
Gain max − min vs AFEB
mV
ID 404
AFEB
Offset max − min vs AFEB


Chip CMP16F Cdet=56 pF (FNAL Stand) May-Aug 2000
fC
ID 501
AFEB
Qthr max, min, aver vs AFEB
fC
ID 502
AFEB
Noise max, min, aver vs AFEB
mV/fC
ID 503
AFEB
Gain max, min, aver vs AFEB
mV
ID 504
AFEB
Offset max,min,aver. vs AFEB