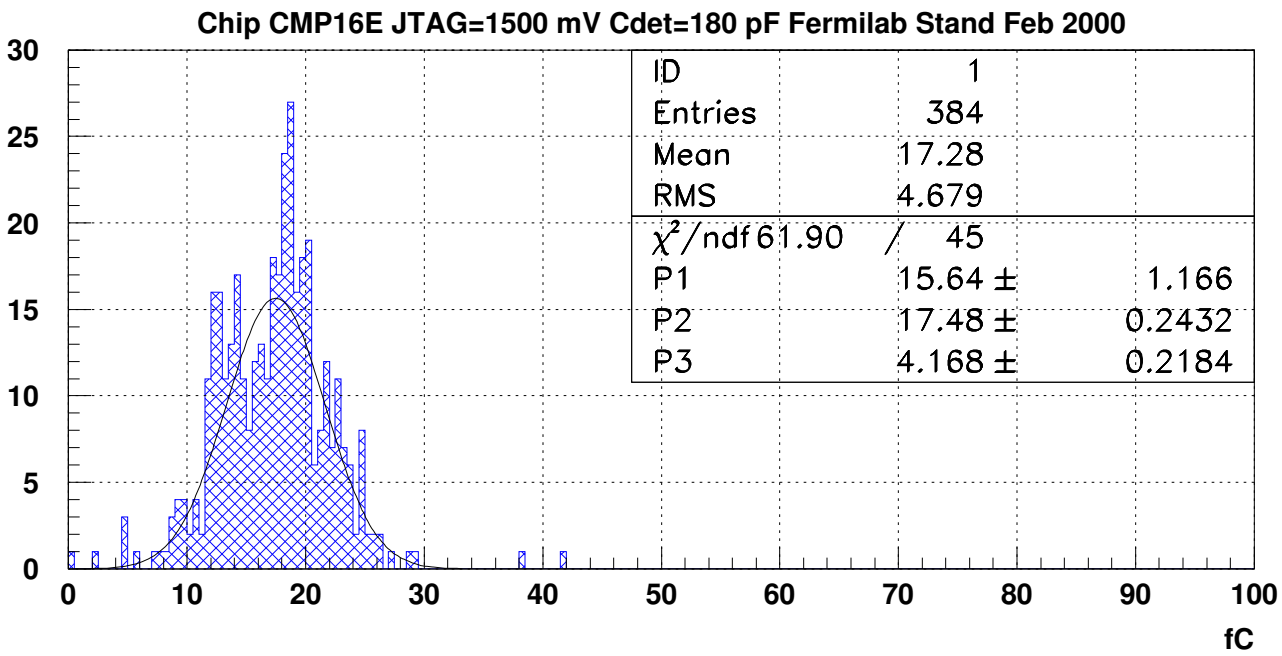
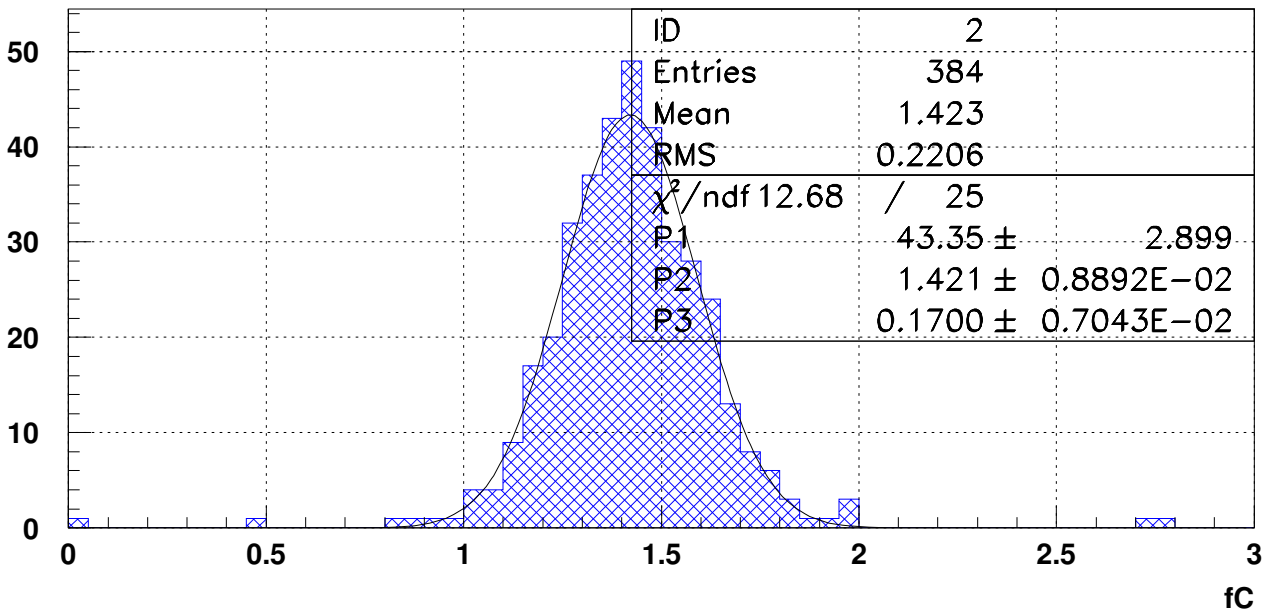
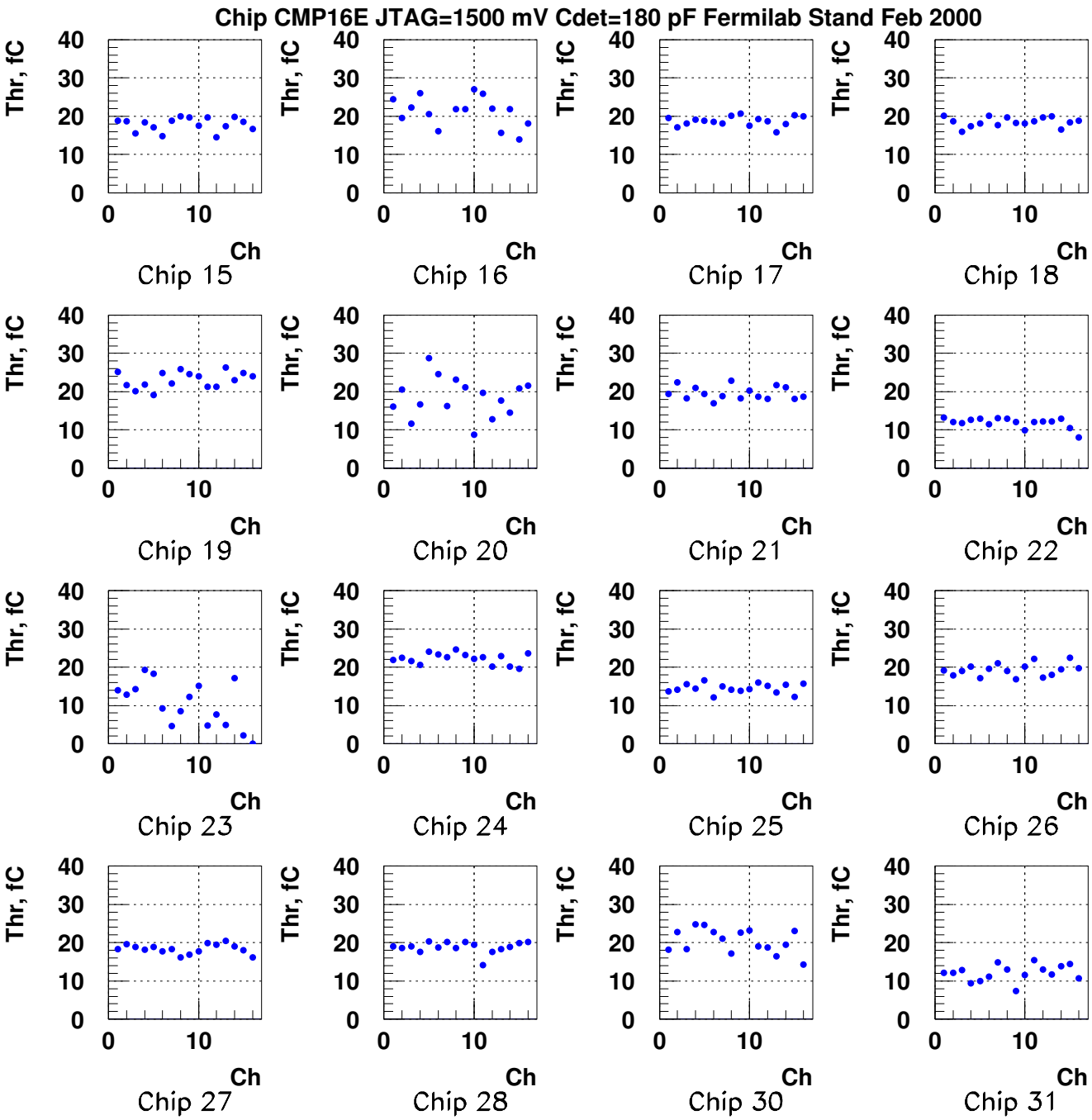
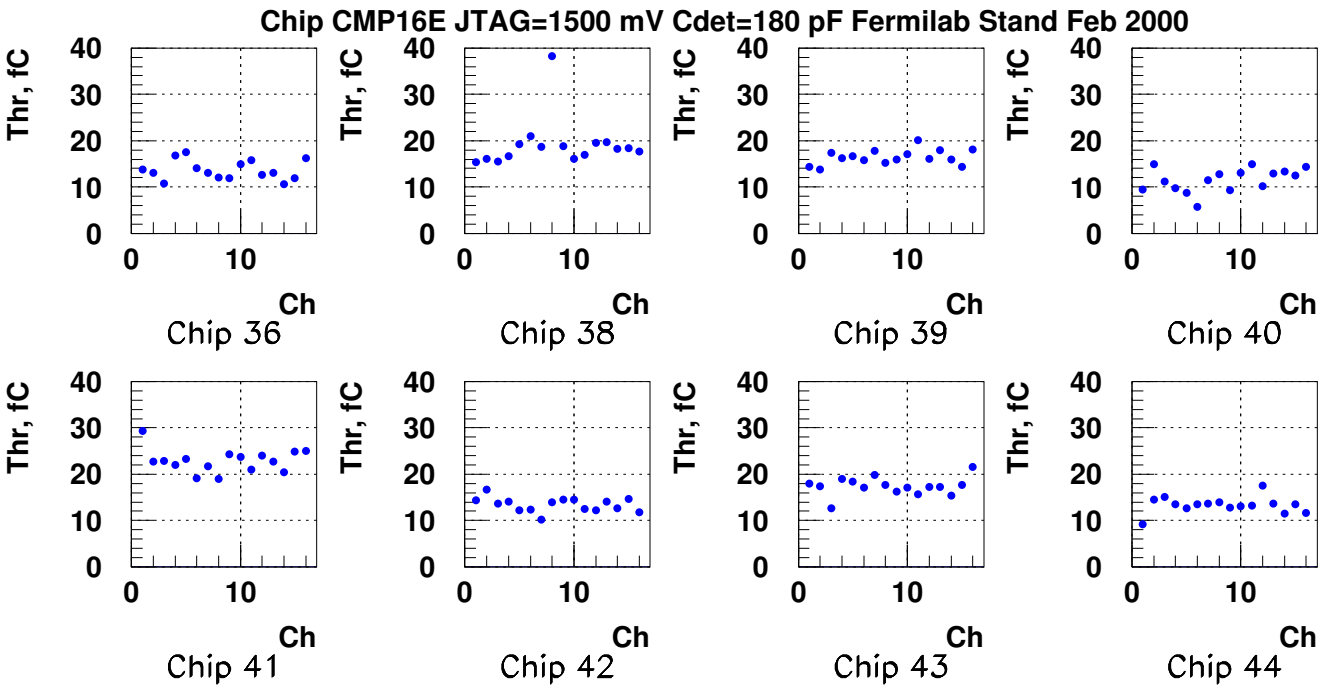


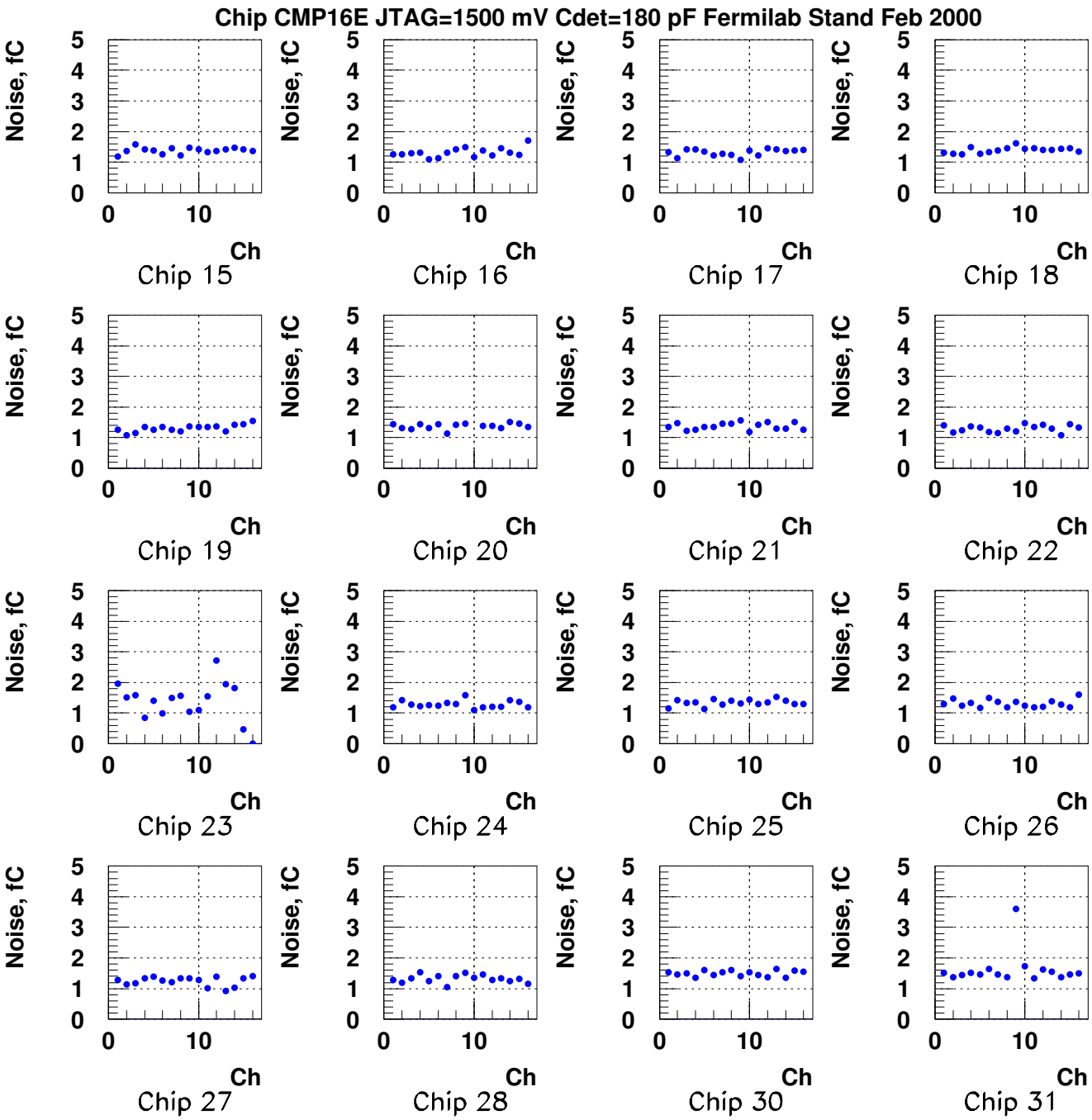
Threshold per channel

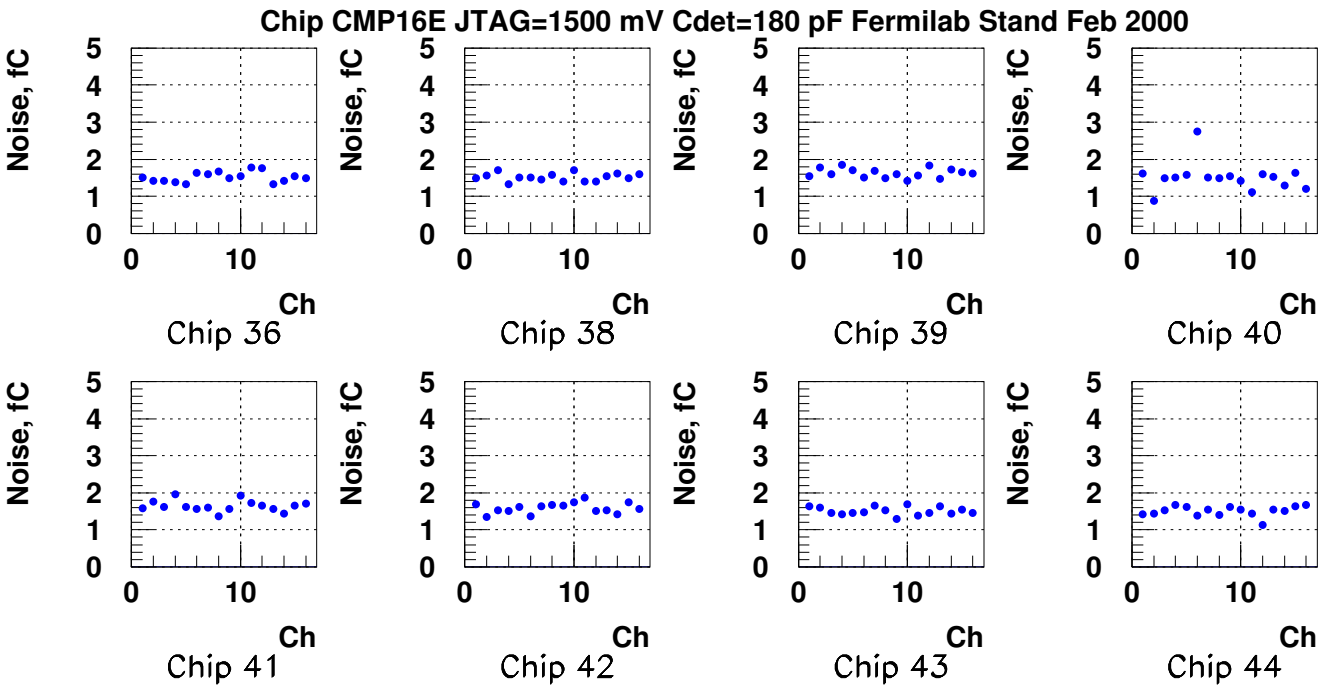


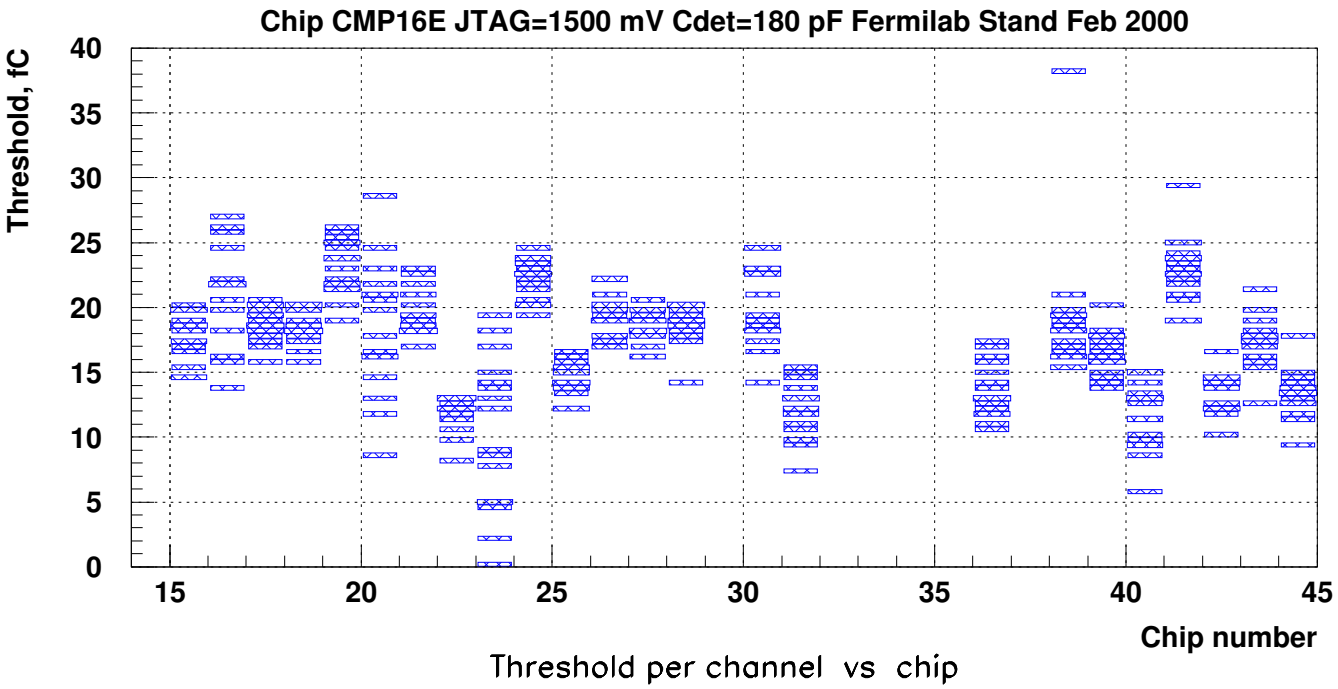
Noise per channel


Chip CMP16E JTAG=1500 mV Cdet=180 pF Fermilab Stand Feb 2000
Thr, fC
Ch
Chip 15
Chip 16
Chip 17
Chip 18
Chip 19
Chip 20
Chip 21
Chip 22
Chip 23
Chip 24
Chip 25
Chip 26
Chip 27
Chip 28
Chip 30
Chip 31

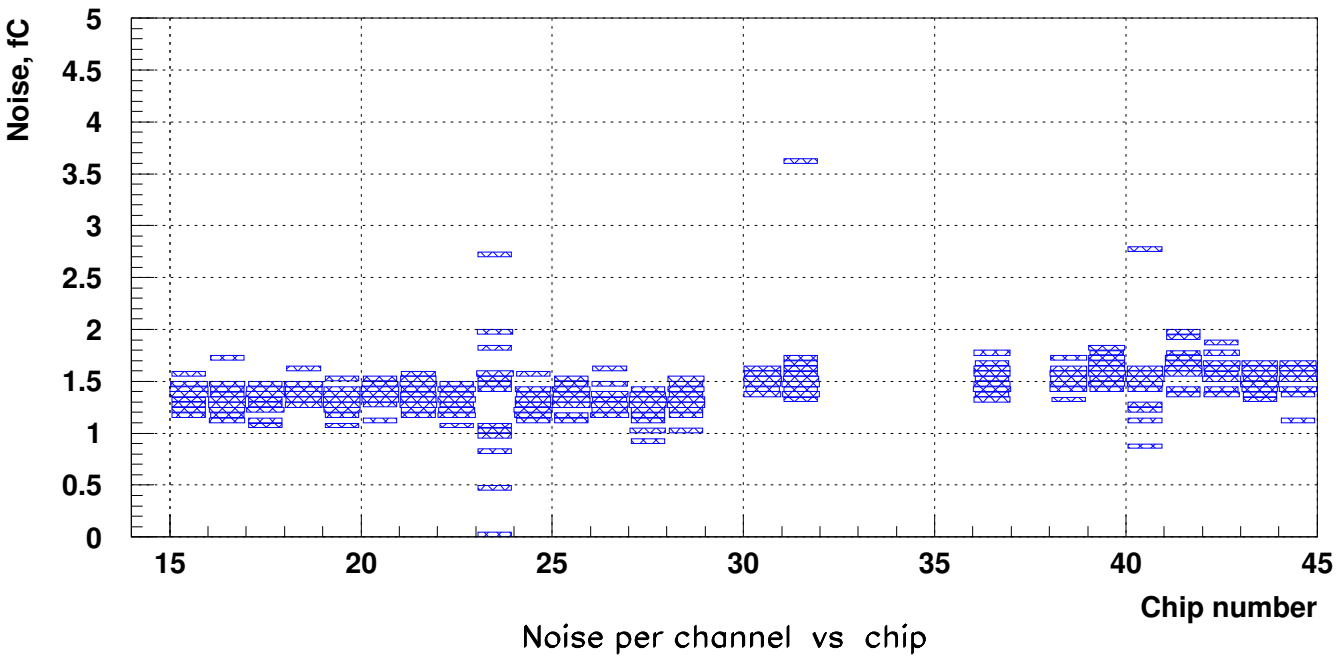

Chip CMP16E JTAG=1500 mV Cdet=180 pF Fermilab Stand Feb 2000
Thr, fC
Ch
Chip 36
Chip 38
Chip 39
Chip 40
Chip 41
Chip 42
Chip 43
Chip 44


Chip CMP16E JTAG=1500 mV Cdet=180 pF Fermilab Stand Feb 2000
Noise, fC
Ch
Chip 15
Chip 16
Chip 17
Chip 18
Chip 19
Chip 20
Chip 21
Chip 22
Chip 23
Chip 24
Chip 25
Chip 26
Chip 27
Chip 28
Chip 30
Chip 31

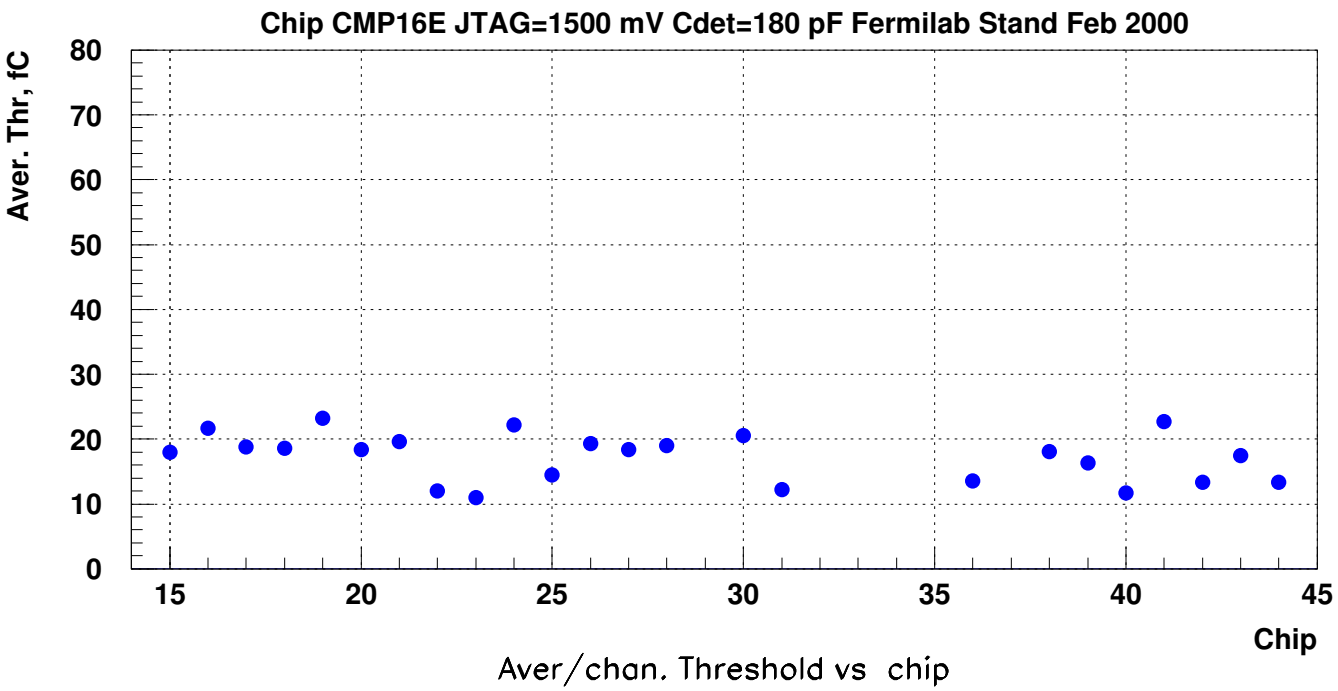

Chip CMP16E JTAG=1500 mV Cdet=180 pF Fermilab Stand Feb 2000
Noise, fC
Ch
Chip 36
Chip 38
Chip 39
Chip 40
Chip 41
Chip 42
Chip 43
Chip 44



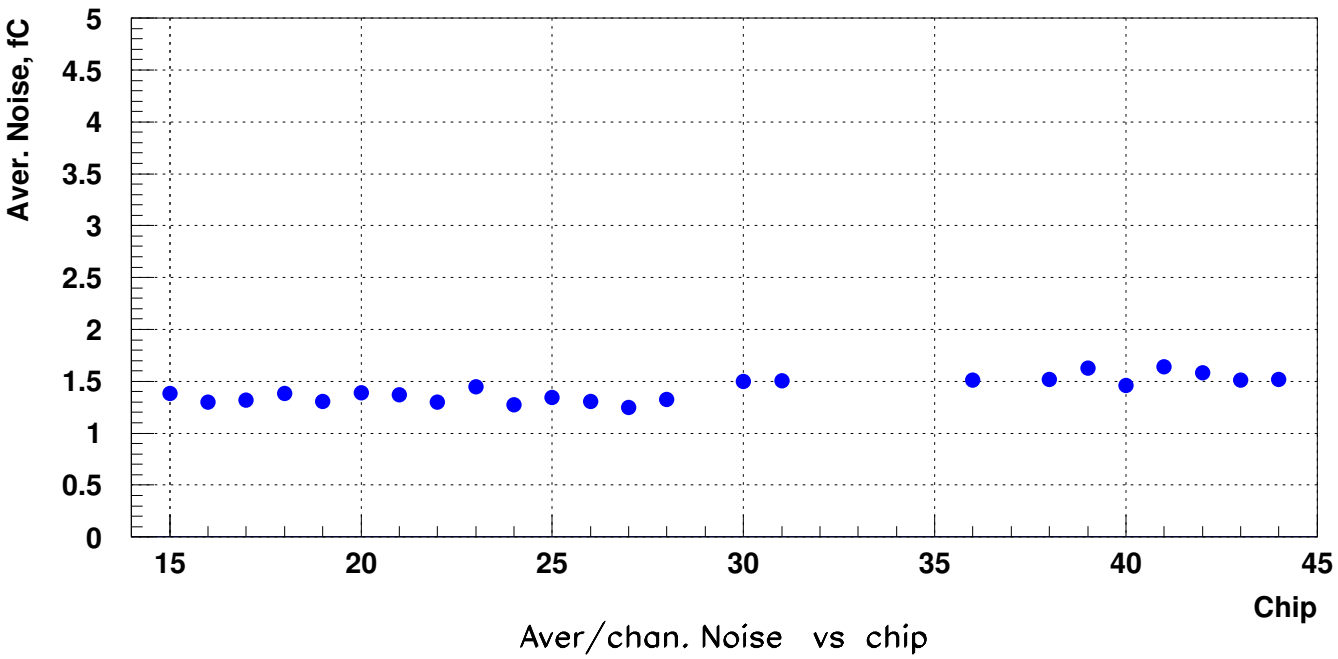
Threshold per channel vs chip



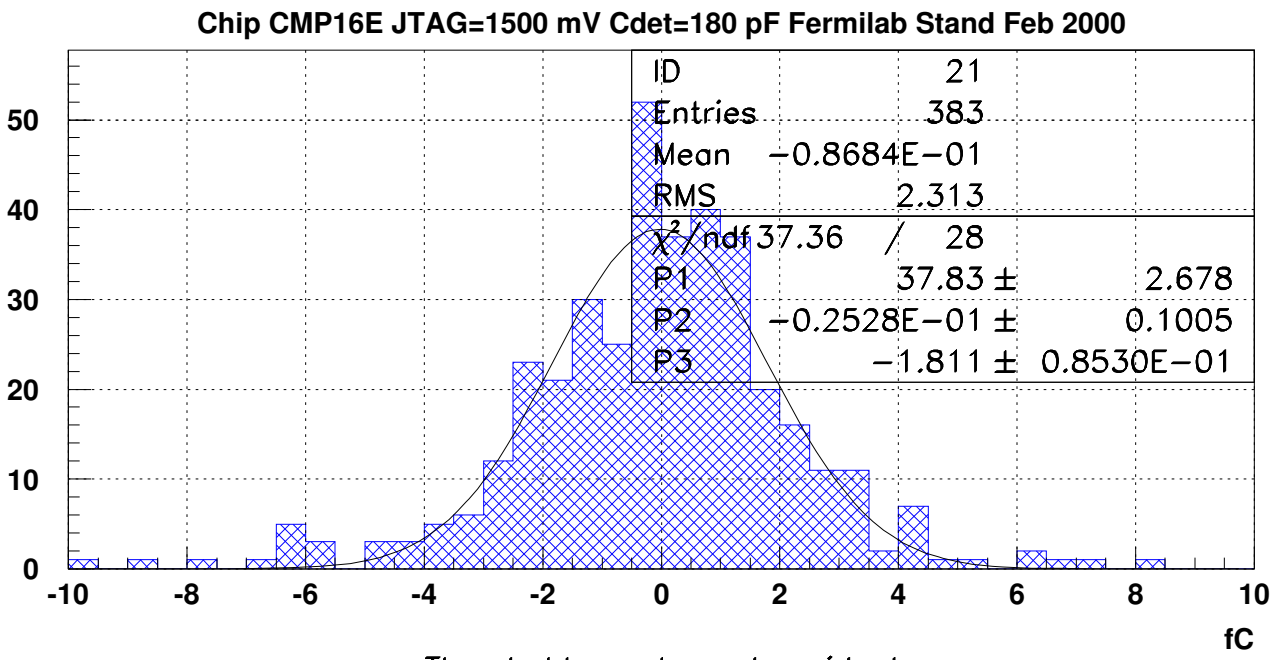
Noise per channel vs chip



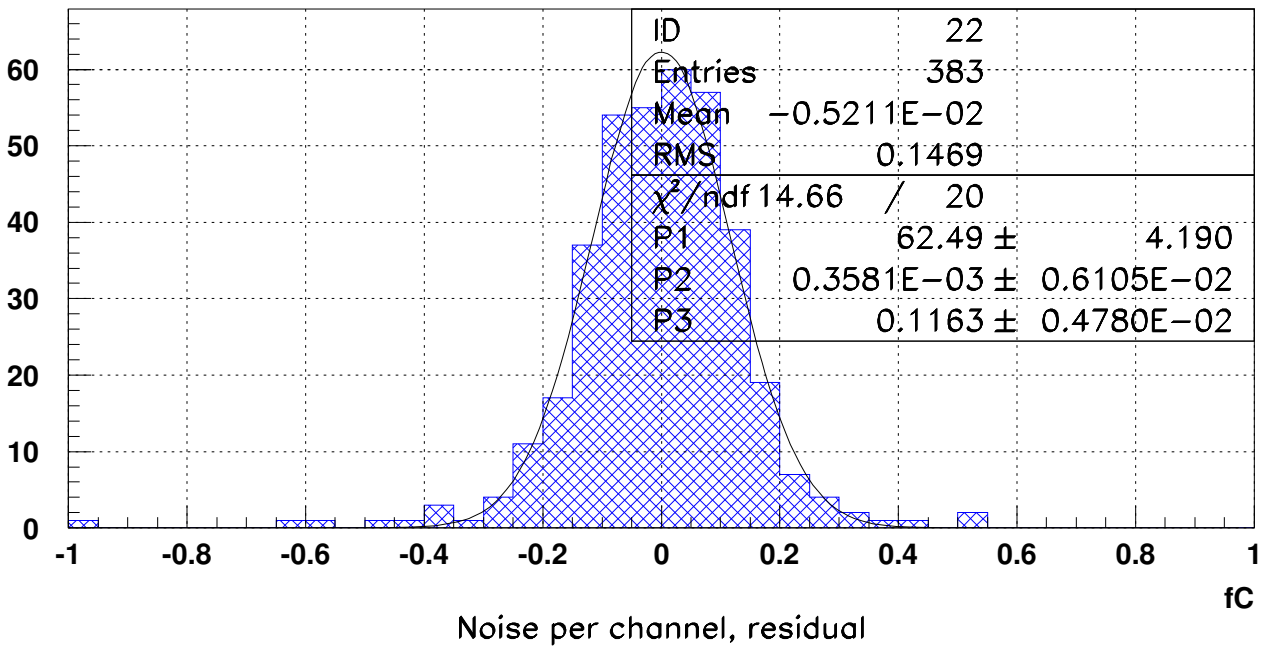
Aver/chan. Threshold vs chip



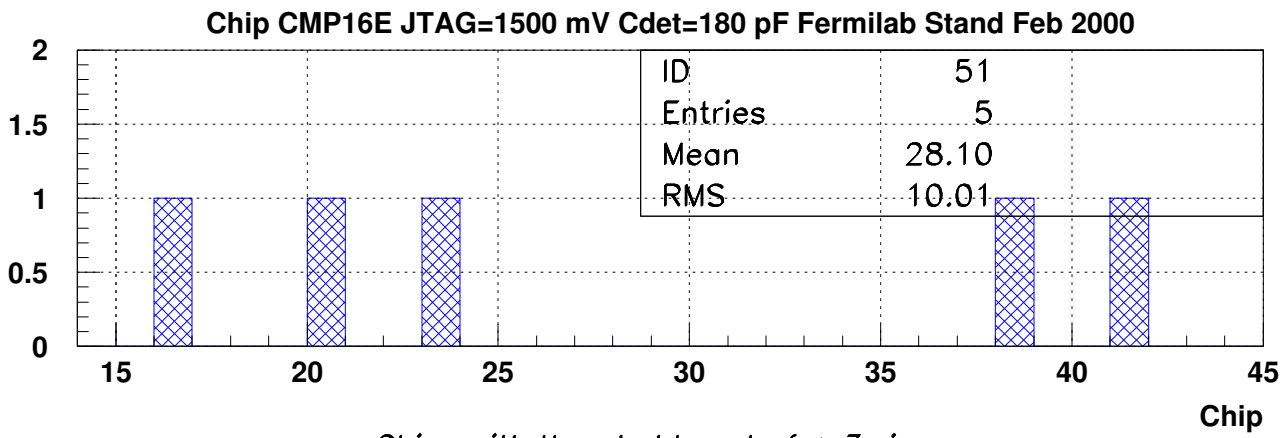
Aver/chan. Noise vs chip



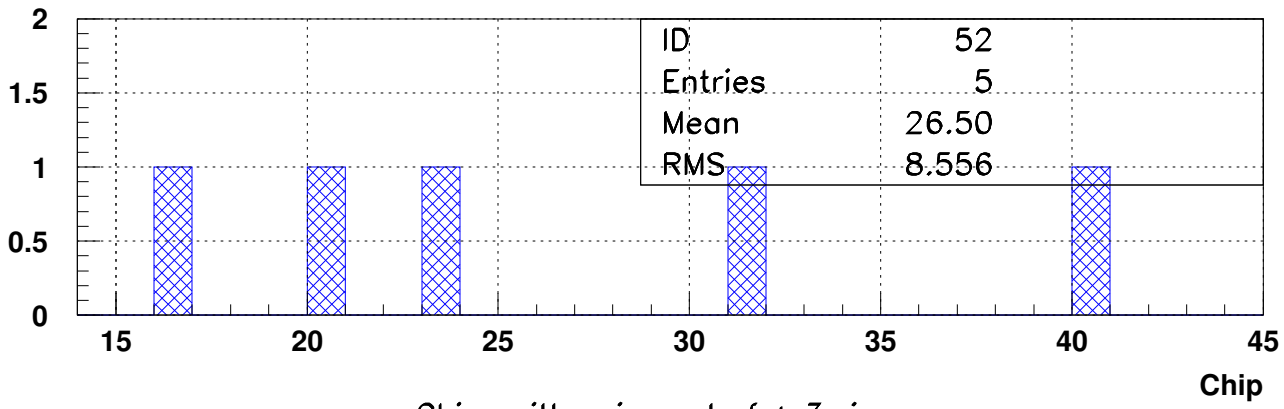
Threshold per channel, residual



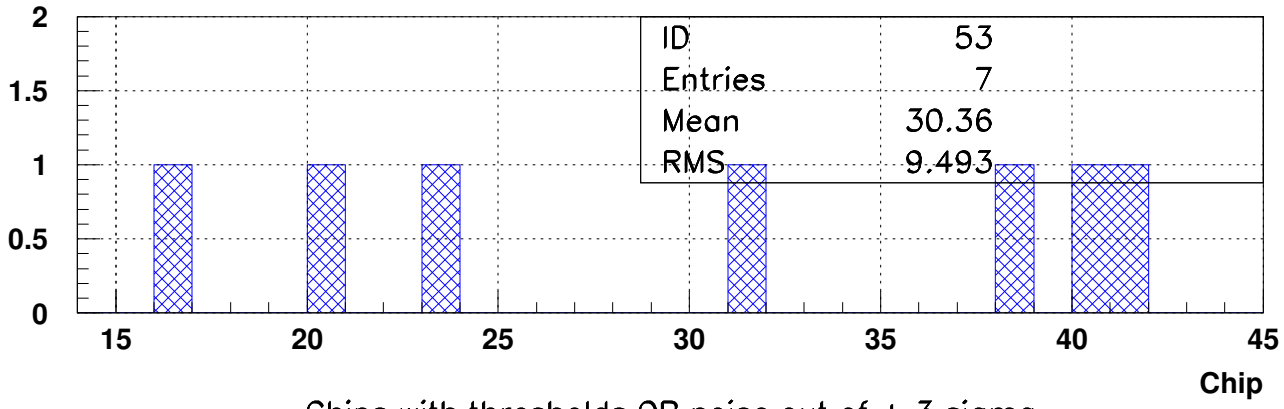
Noise per channel, residual



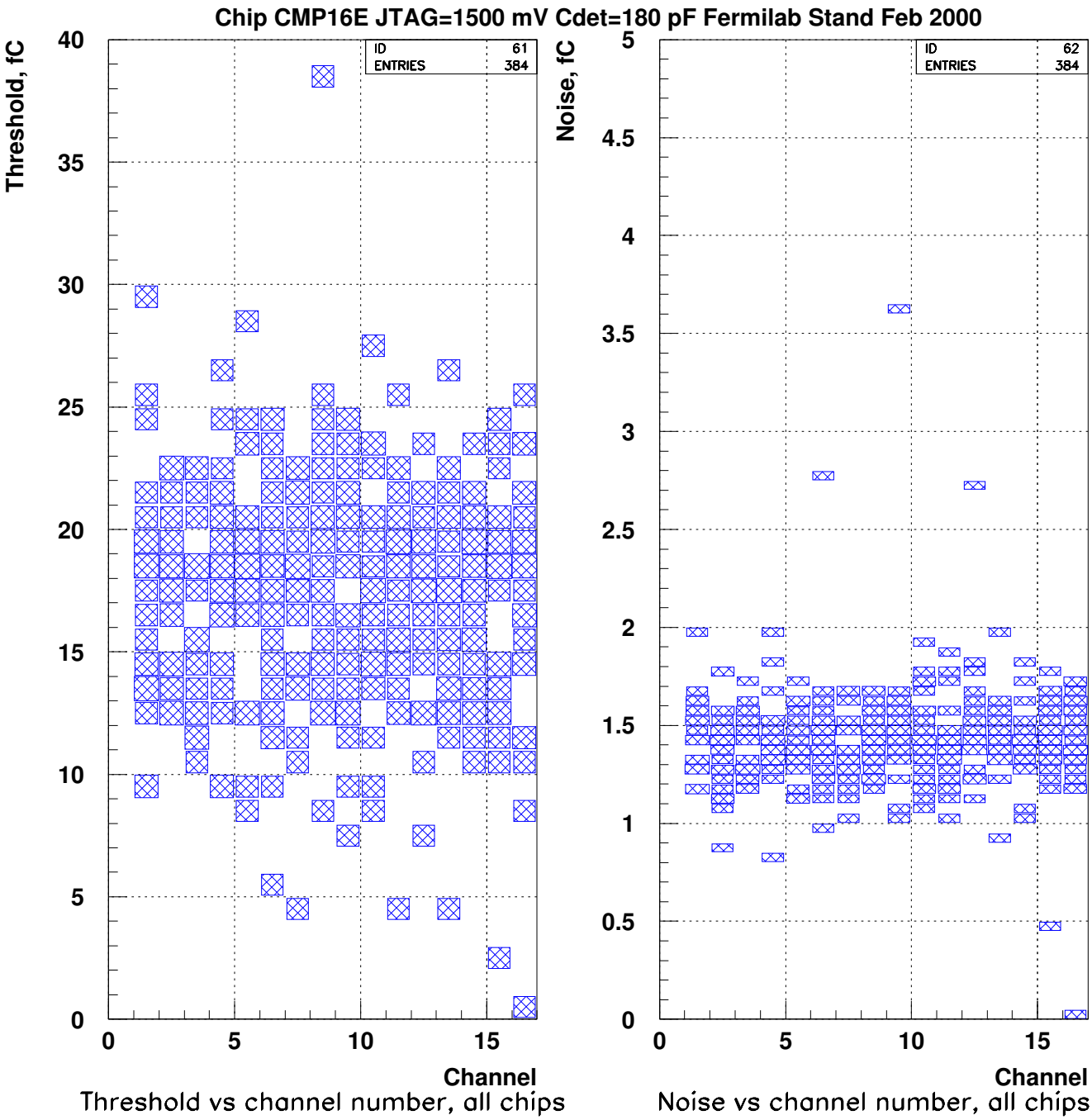
Chips with thresholds out of + 3 sigma



Chips with noise out of + 3 sigma

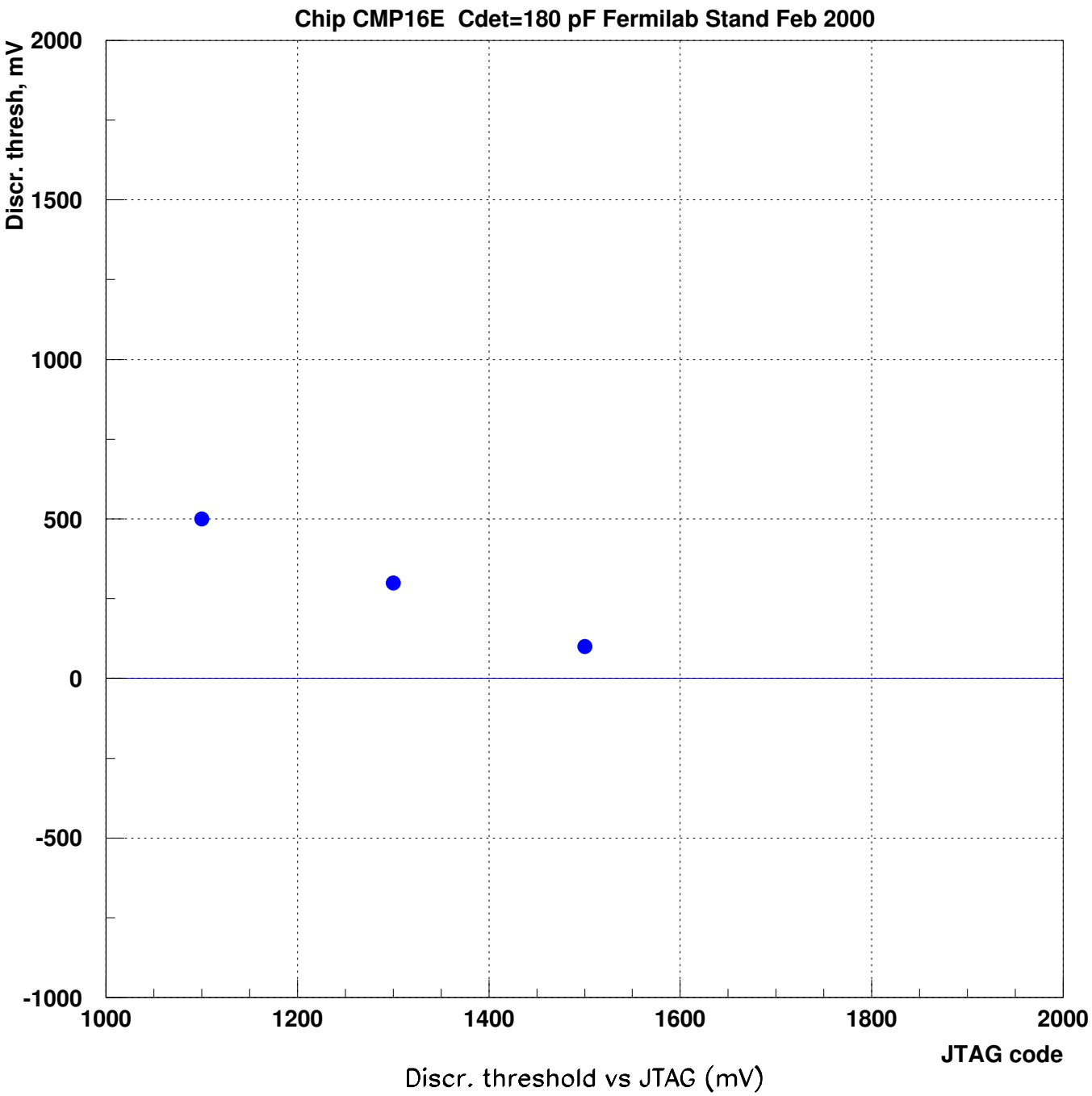


Chips with thresholds OR noise out of + 3 sigma

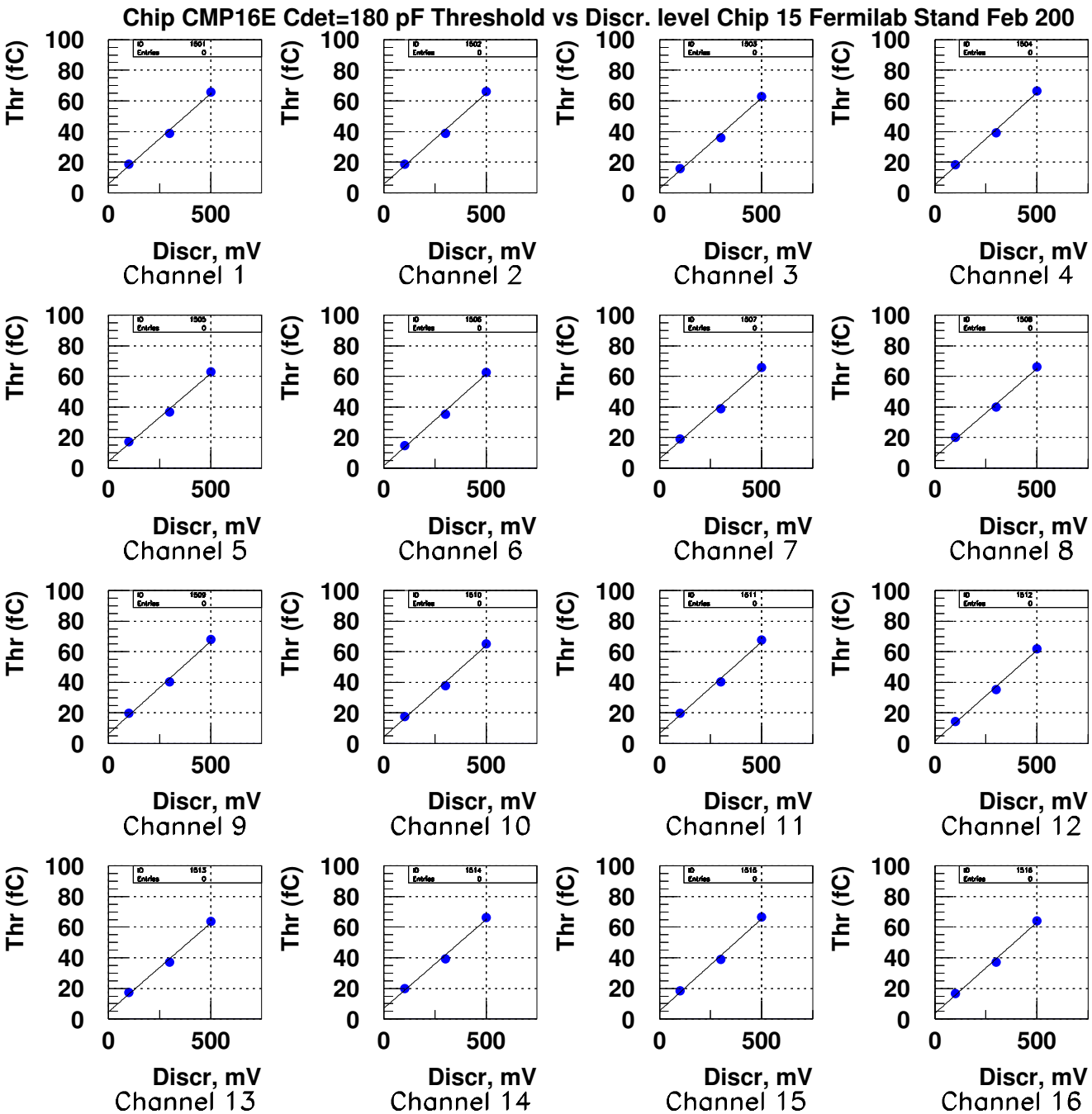


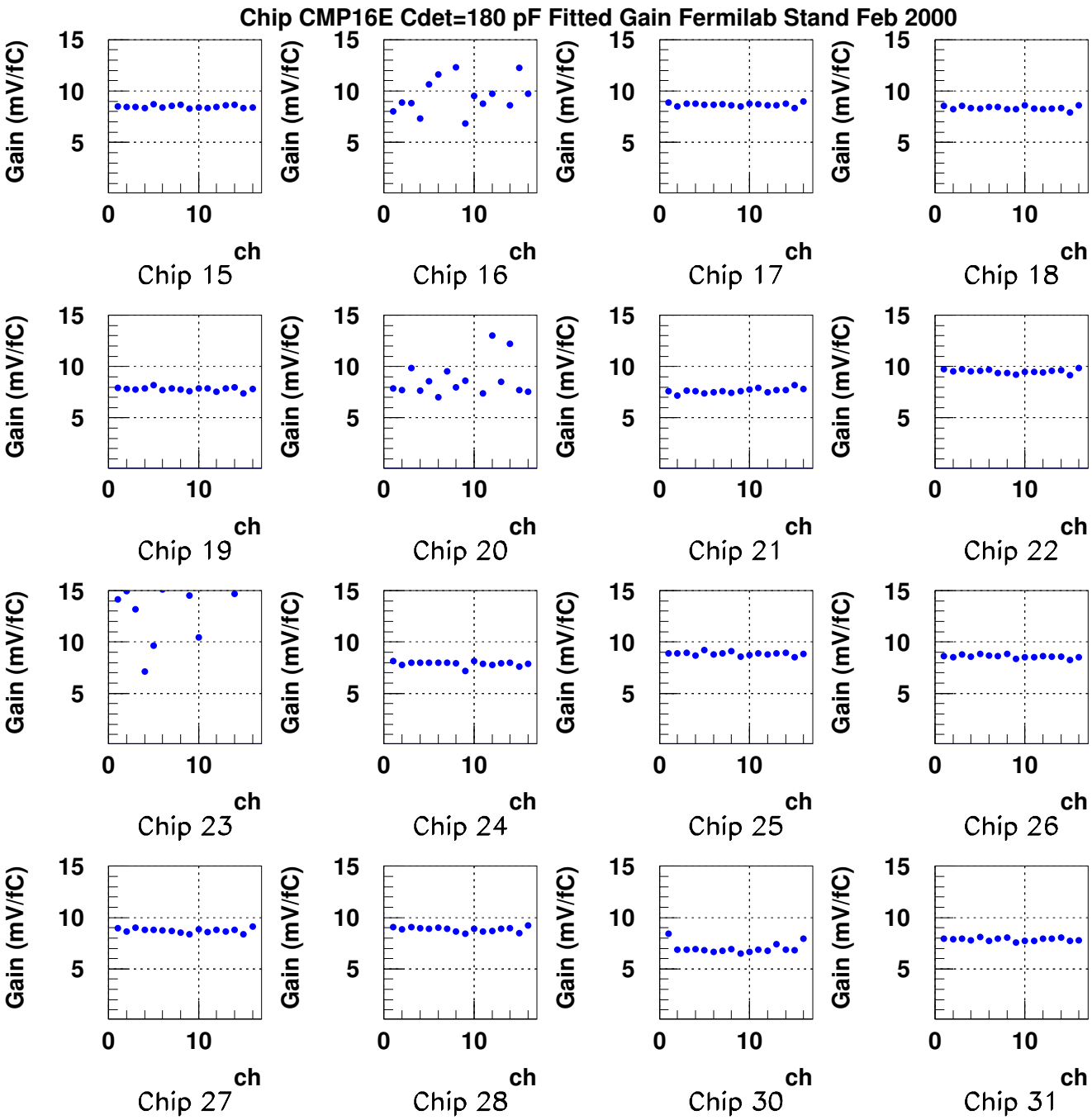
Threshold vs channel number, all chips

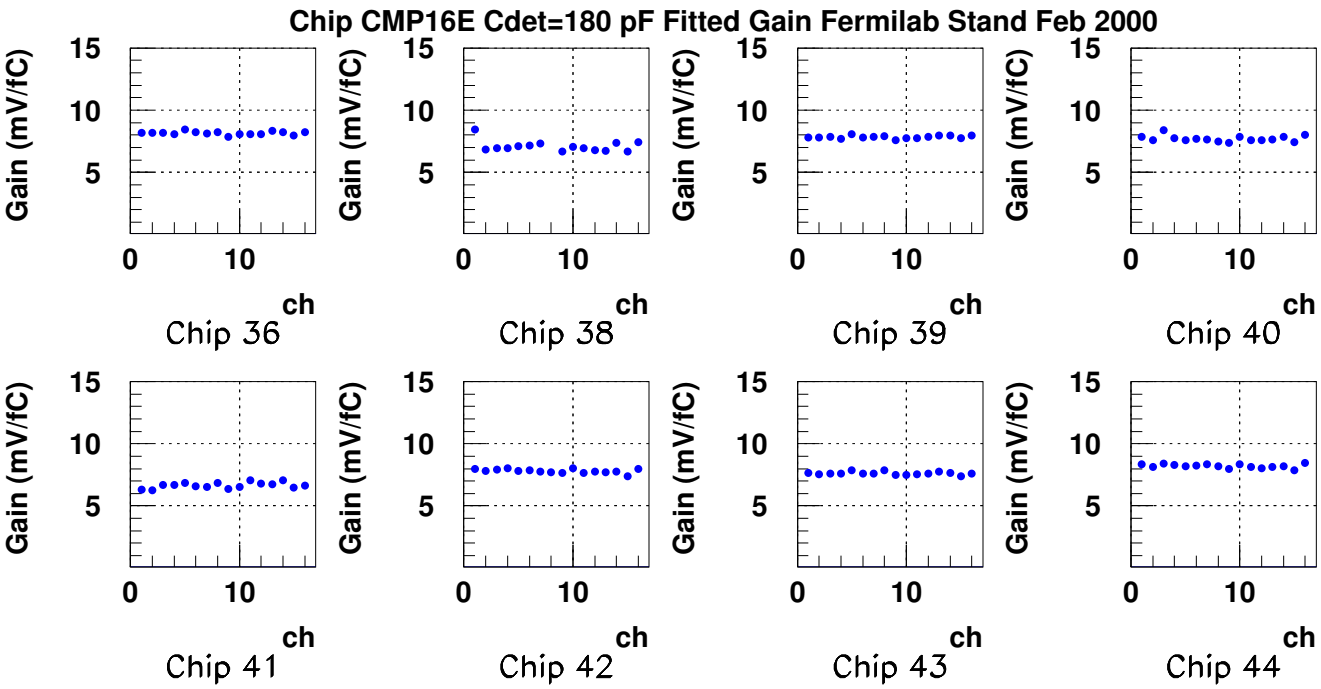
Noise vs channel number, all chips

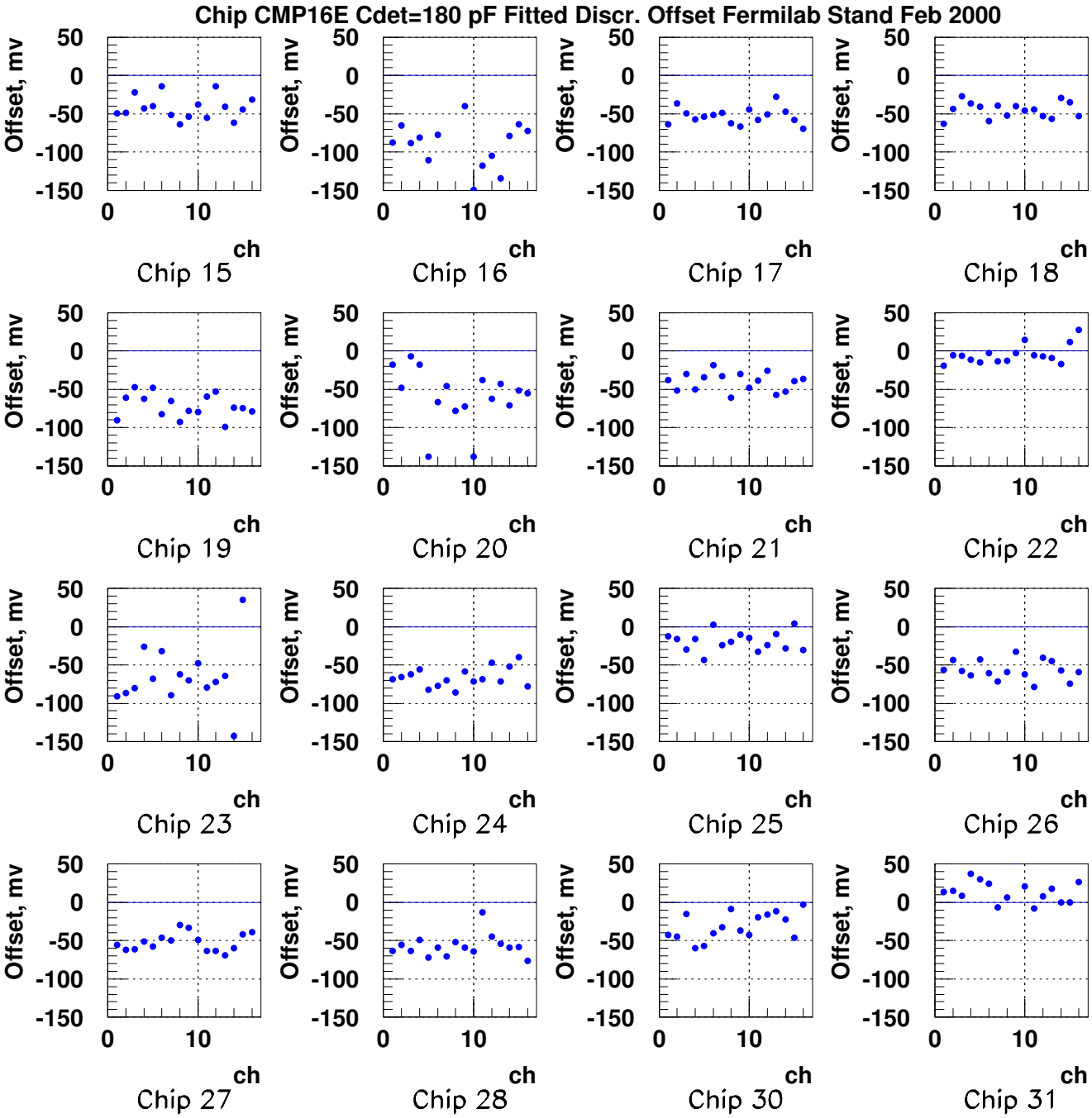


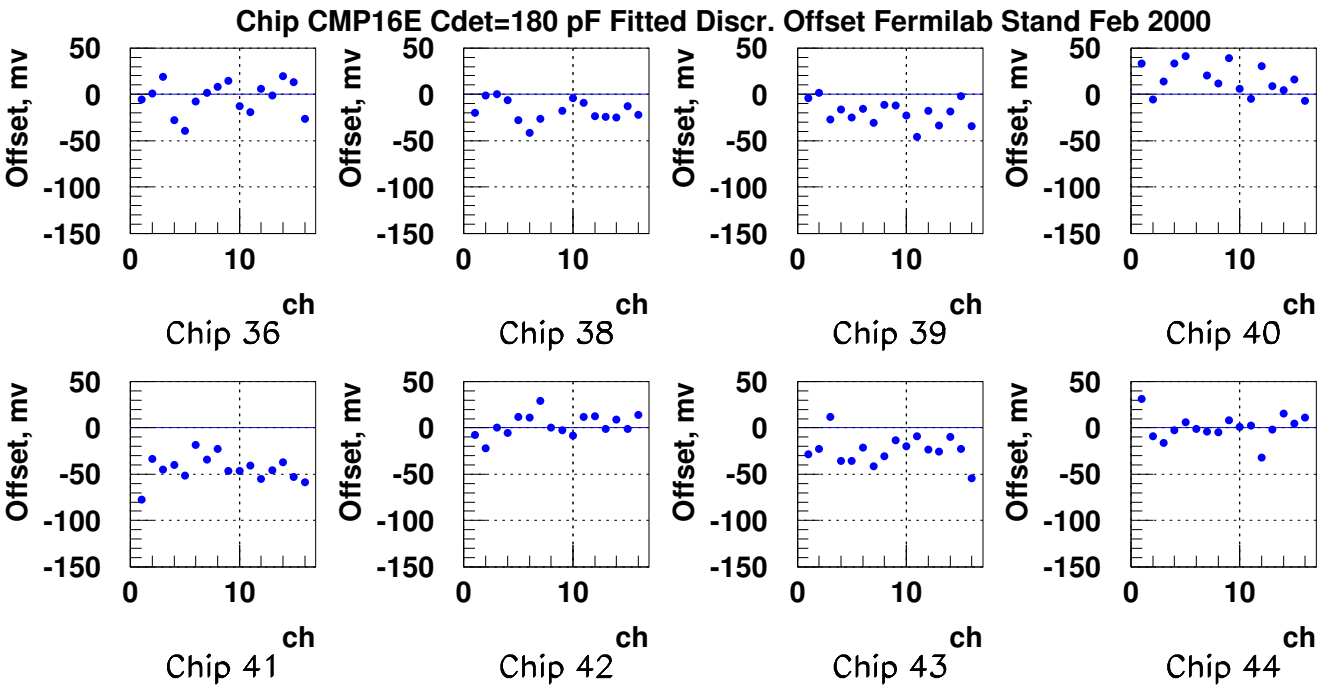
Discr. threshold vs JTAG (mV)


Chip CMP16E Cdet=180 pF Threshold vs Discr. level Chip 15 Fermilab Stand Feb 200
Thr (fC)
Discr, mV
Channel 1
Channel 2
Channel 3
Channel 4
Channel 5
Channel 6
Channel 7
Channel 8
Channel 9
Channel 10
Channel 11
Channel 12
Channel 13
Channel 14
Channel 15
Channel 16

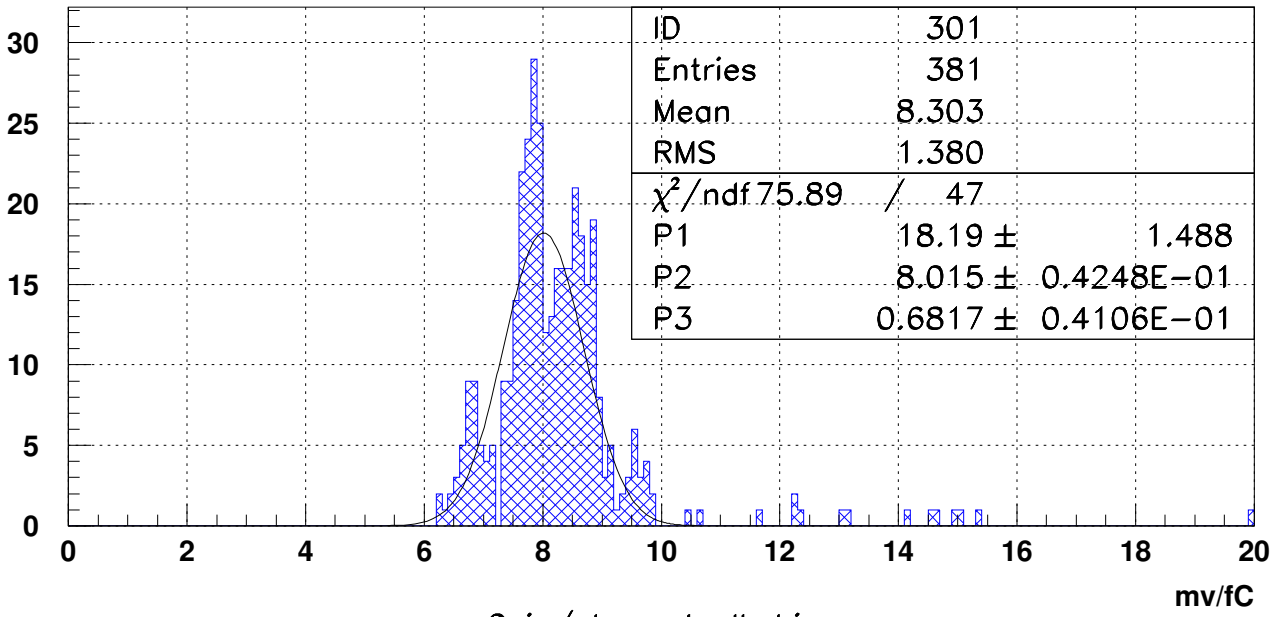

Chip CMP16E Cdet=180 pF Fitted Gain Fermilab Stand Feb 2000
Gain (mV/fC)
15
10
5
0
10
ch
Chip 15
Chip 16
Chip 17
Chip 18
Chip 19
Chip 20
Chip 21
Chip 22
Chip 23
Chip 24
Chip 25
Chip 26
Chip 27
Chip 28
Chip 30
Chip 31


Chip CMP16E Cdet=180 pF Fitted Gain Fermilab Stand Feb 2000
Gain (mV/fC)
15
10
5
0
10
ch
Chip 36
Chip 38
Chip 39
Chip 40
Chip 41
Chip 42
Chip 43
Chip 44

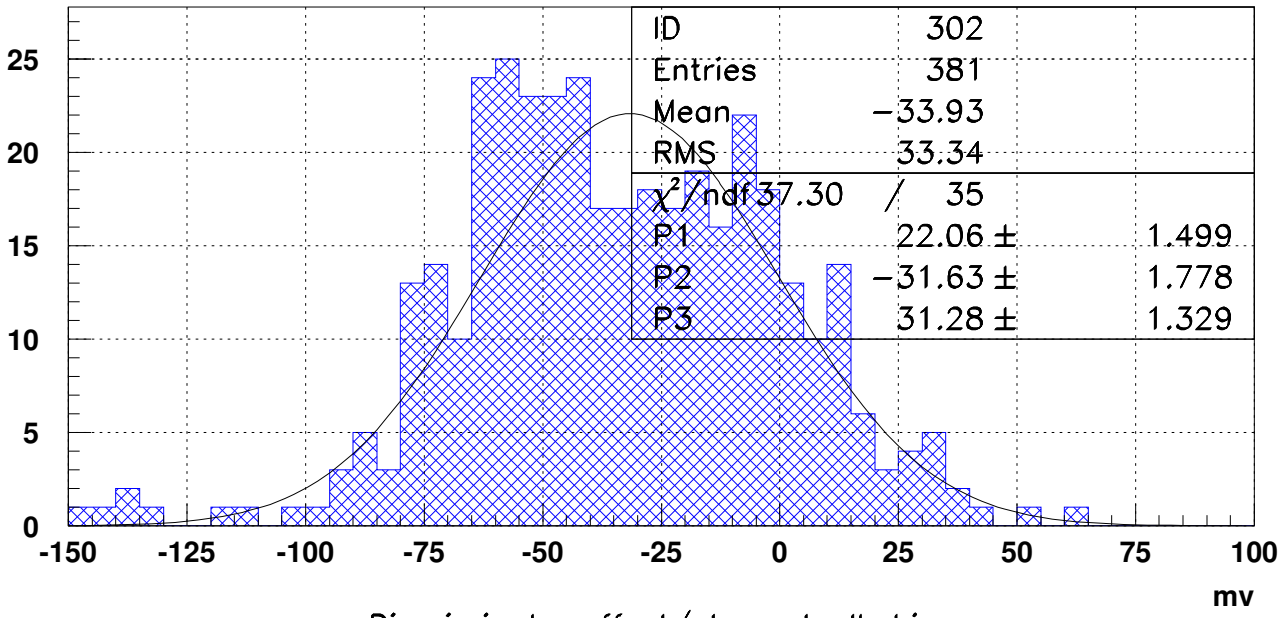

Chip CMP16E Cdet=180 pF Fitted Discr. Offset Fermilab Stand Feb 2000
Offset, mv
50
0
-50
-100
-150
0
10
ch
Chip 15
Chip 16
Chip 17
Chip 18
Chip 19
Chip 20
Chip 21
Chip 22
Chip 23
Chip 24
Chip 25
Chip 26
Chip 27
Chip 28
Chip 30
Chip 31


Chip CMP16E Cdet=180 pF Fitted Discr. Offset Fermilab Stand Feb 2000
Offset, mv
50
0
-50
-100
-150
0
10
ch
Chip 36
Chip 38
Chip 39
Chip 40
Chip 41
Chip 42
Chip 43
Chip 44

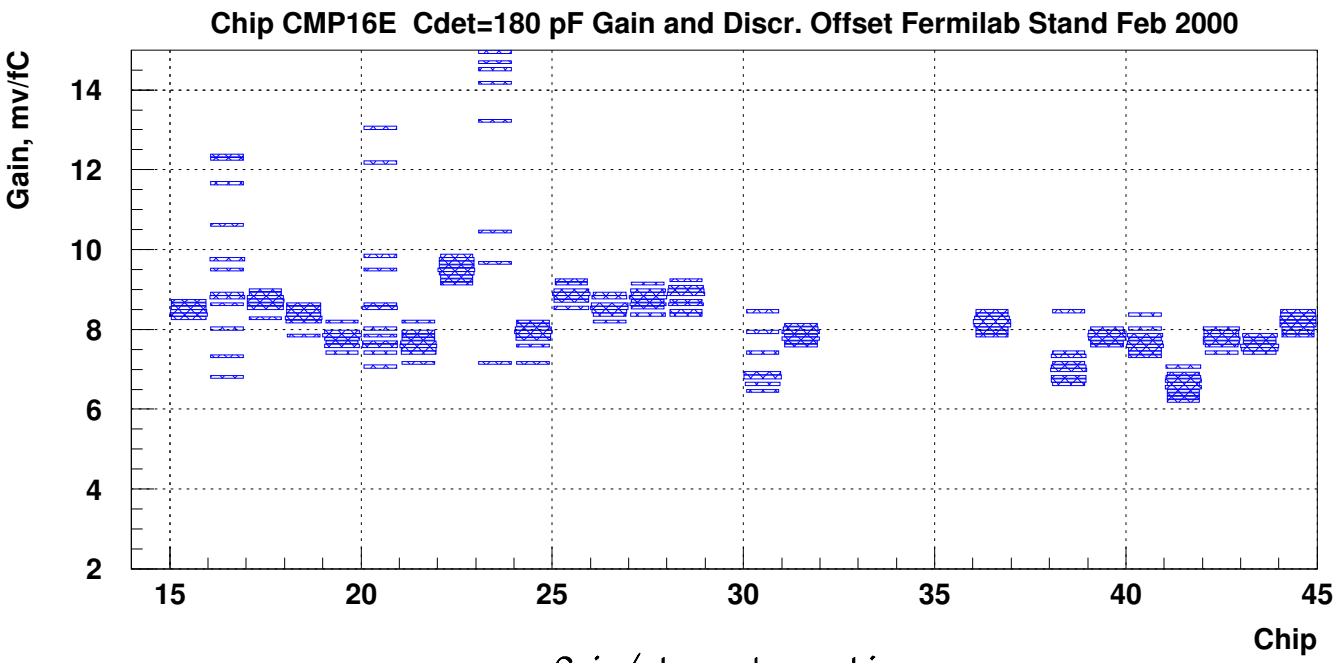
Chip CMP16E Cdet=180 pF Gain and Discr. Offset Fermilab Stand Feb 2000



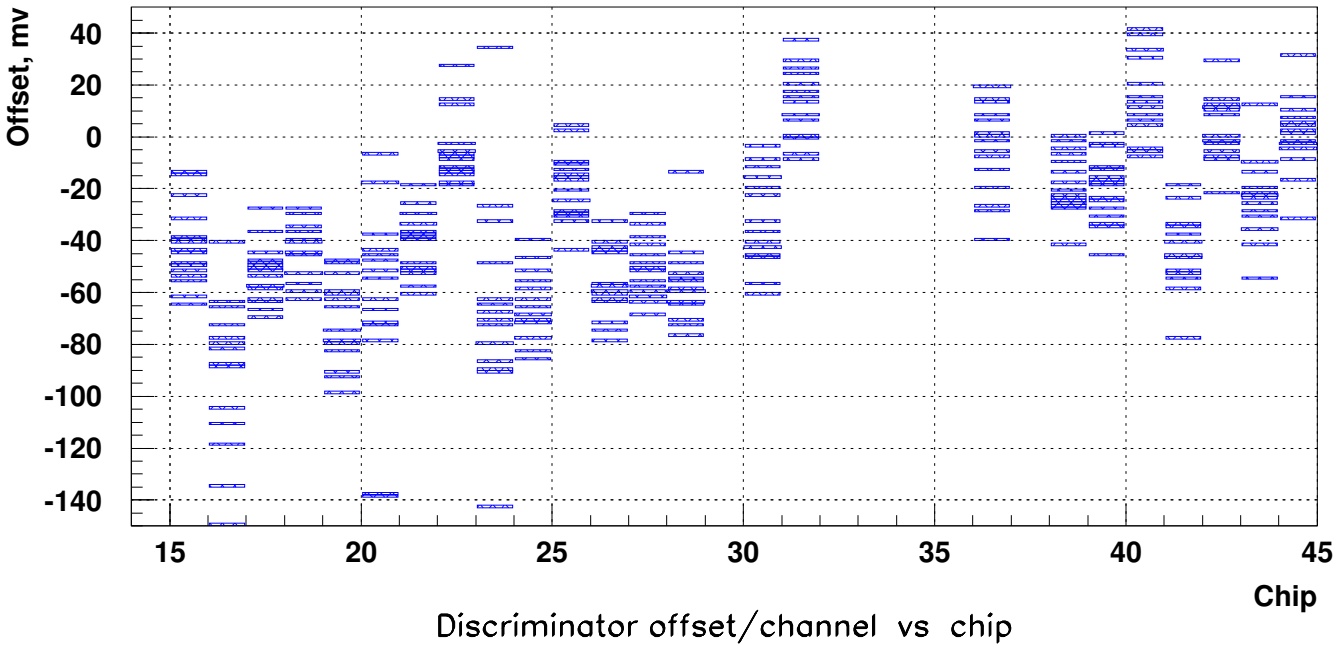
Gain/channel, all chips



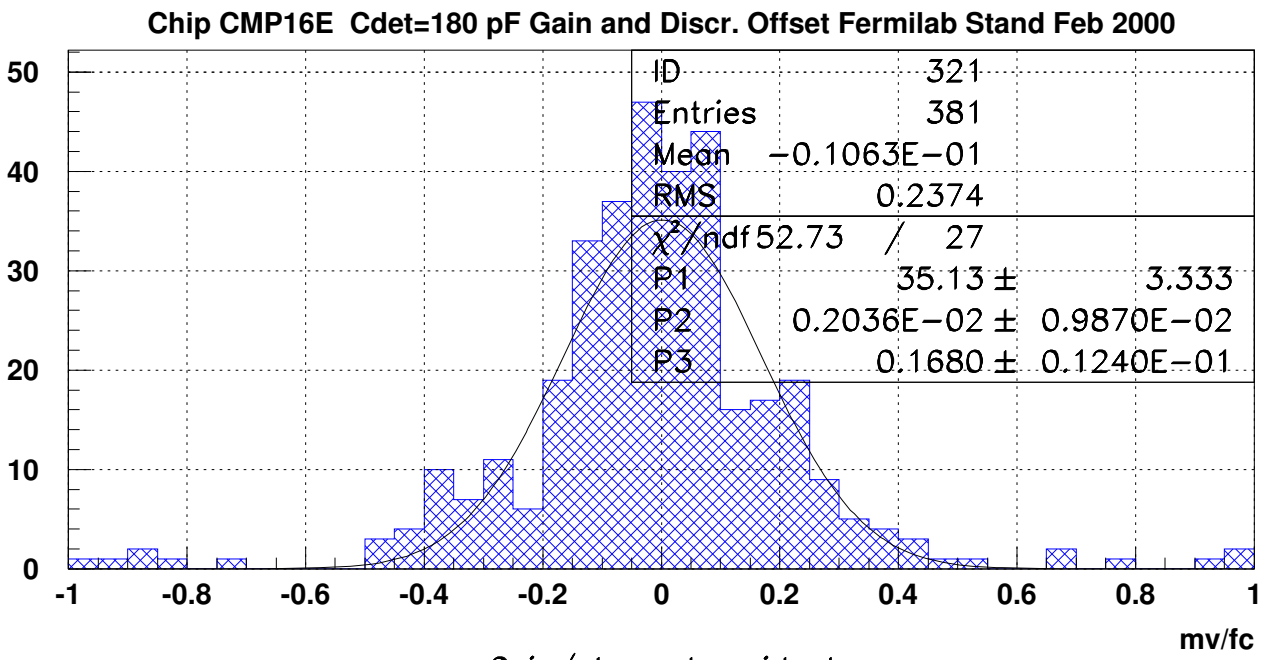
Discriminator offset/channel, all chips

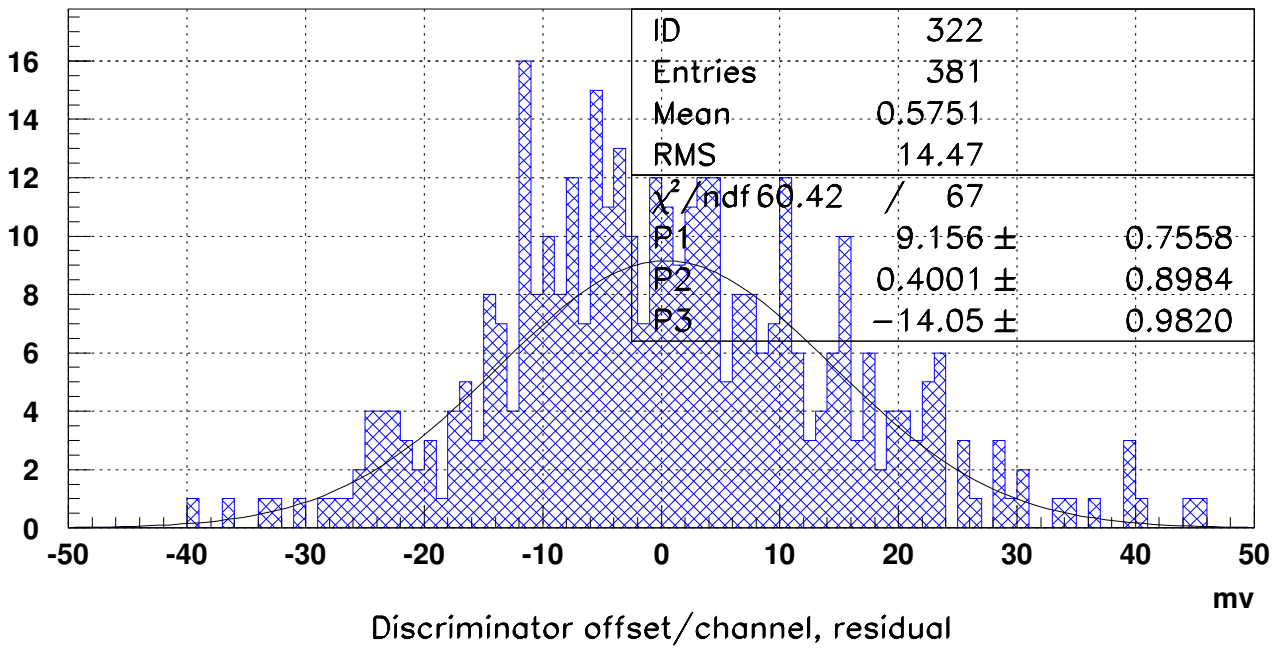


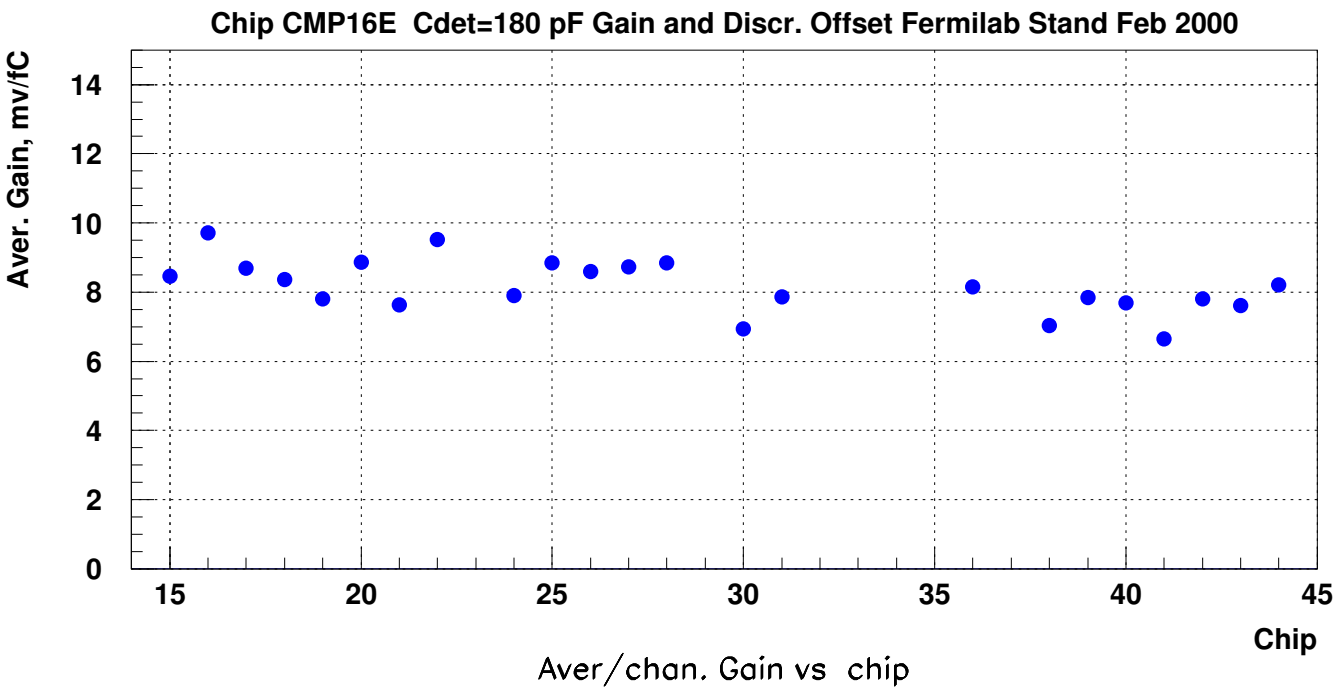
Gain/channel vs chip



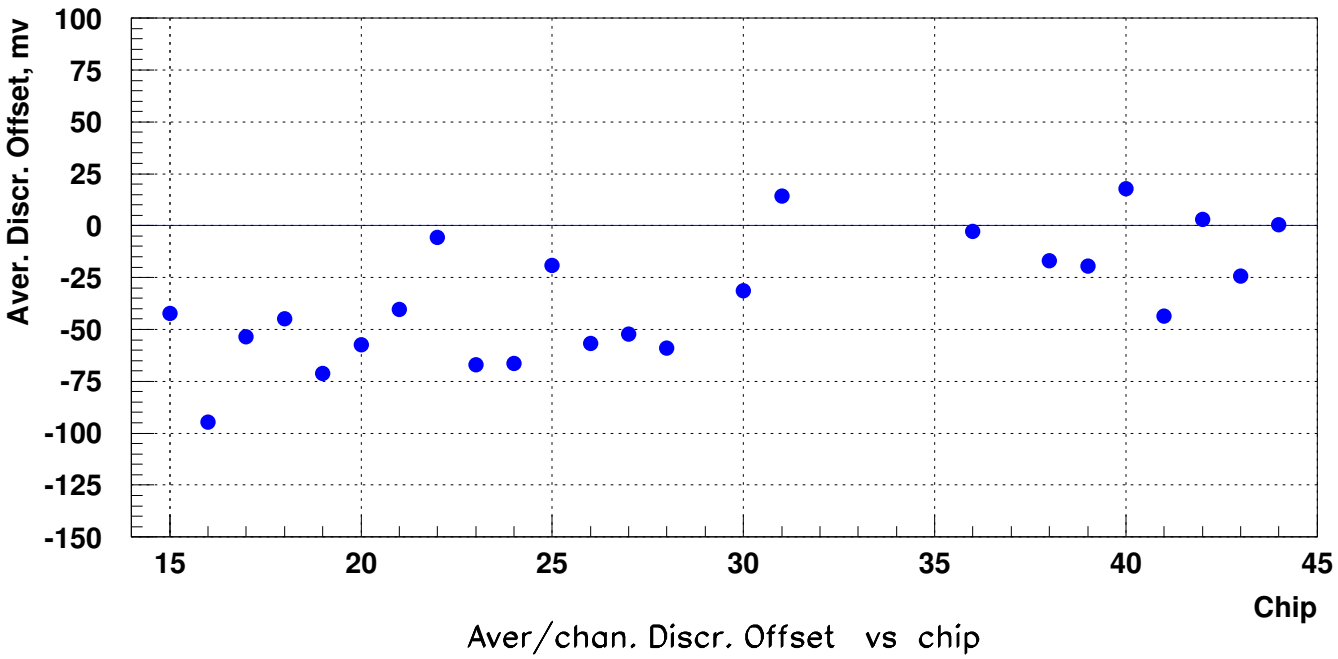
Discriminator offset/channel vs chip


Chip CMP16E Cdet=180 pF Gain and Discr. Offset Fermilab Stand Feb 2000
ID 321
Entries 381
Mean −0.1063E−01
RMS 0.2374
χ²/ndf 52.73 / 27
P1 35.13 ± 3.333
P2 0.2036E−02 ± 0.9870E−02
P3 0.1680 ± 0.1240E−01
mv/fc
Gain/channel, residual

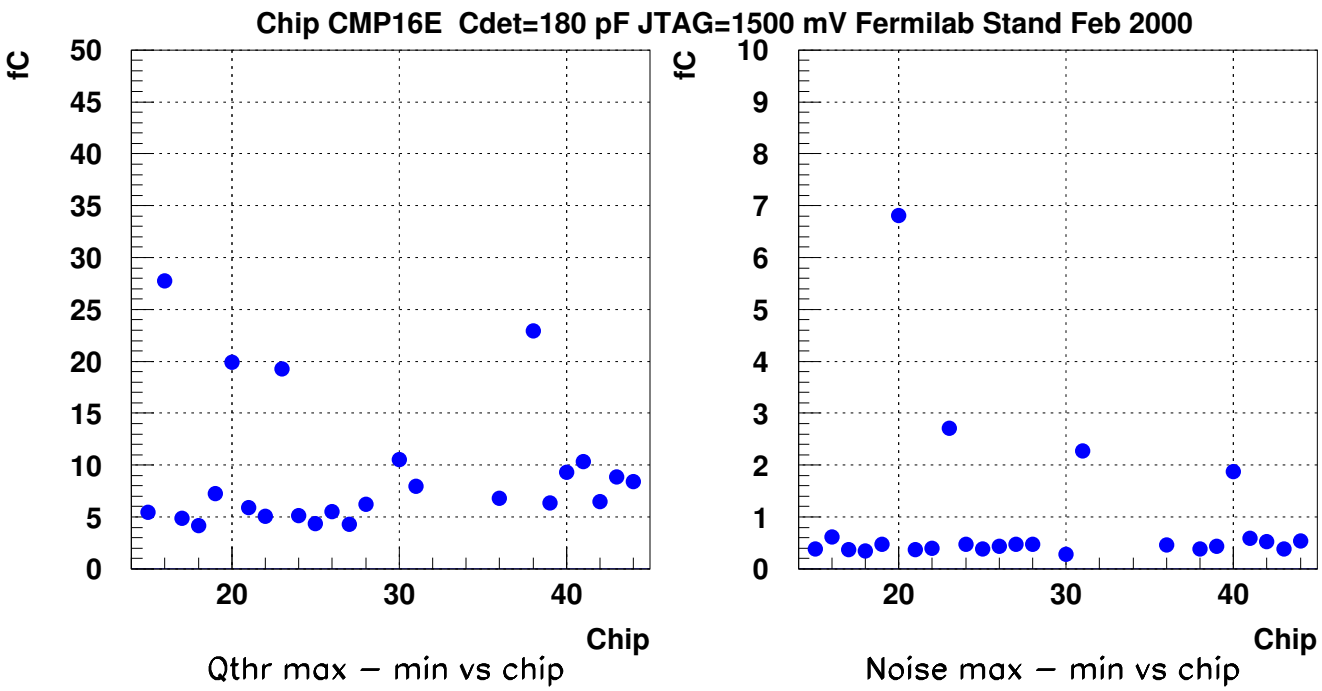

ID 322
Entries 381
Mean 0.5751
RMS 14.47
χ²/ndf 60.42 / 67
P1 9.156 ± 0.7558
P2 0.4001 ± 0.8984
P3 −14.05 ± 0.9820
mv
Discriminator offset/channel, residual

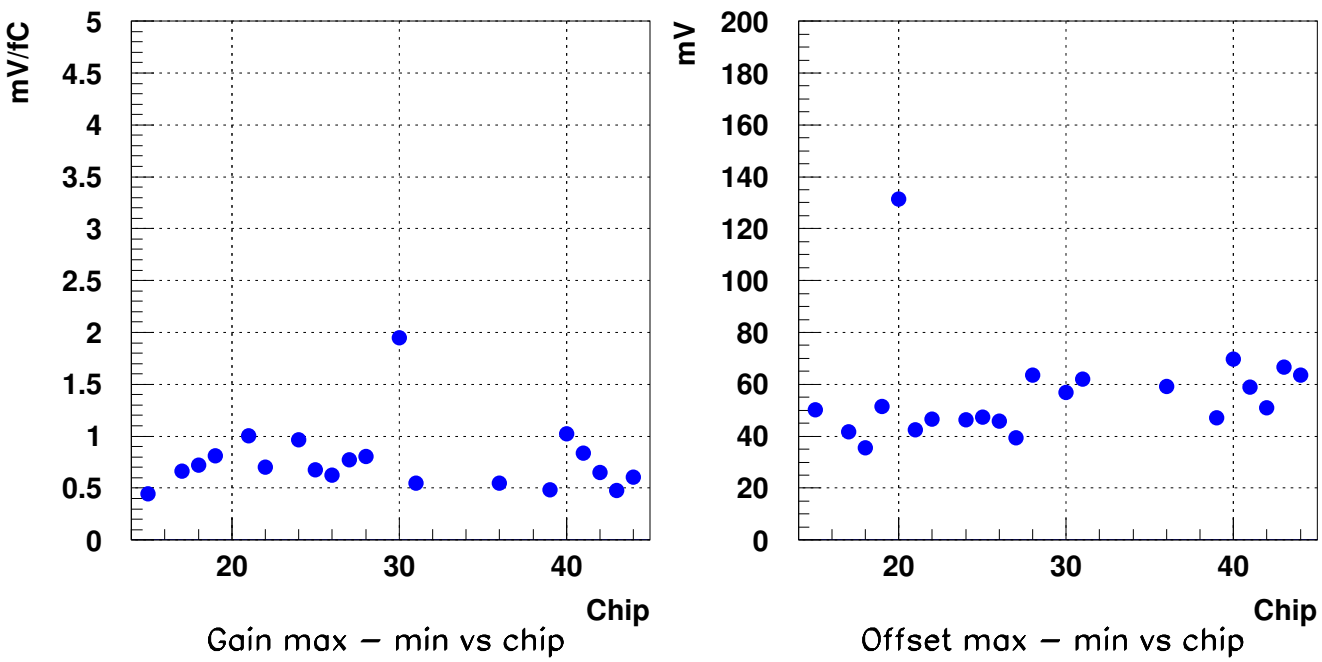


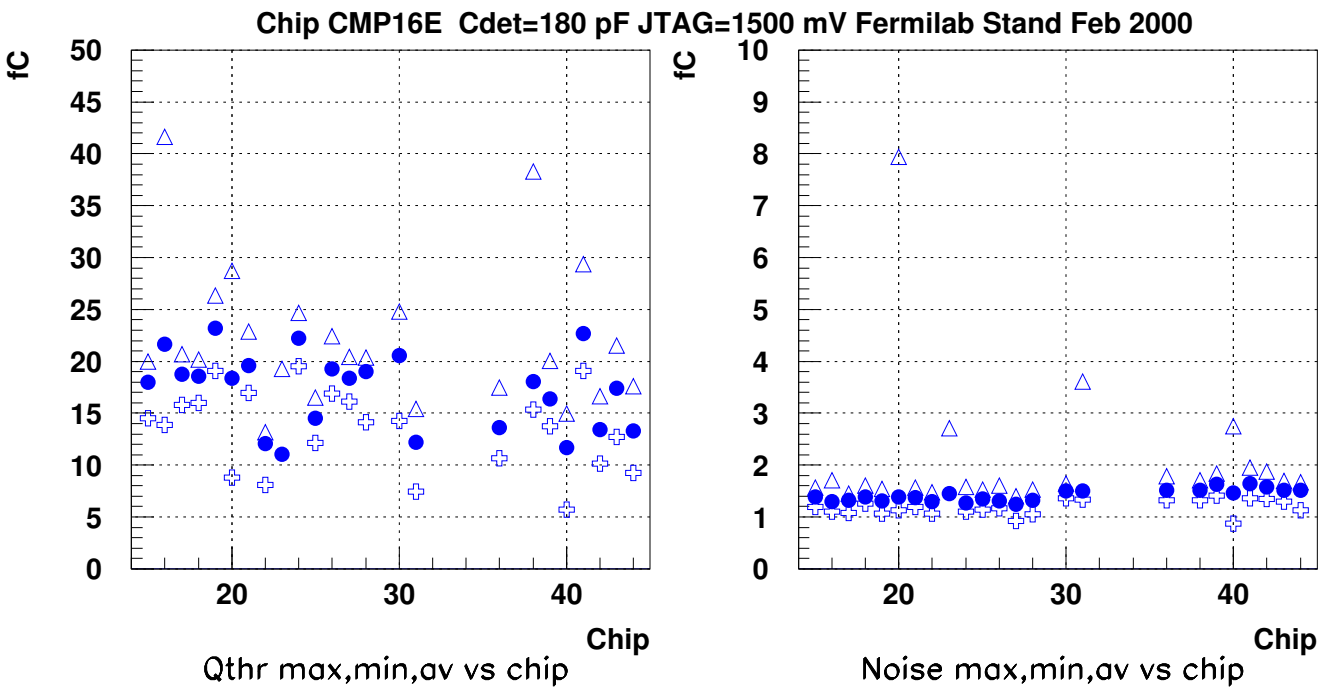
Aver/chan. Gain vs chip

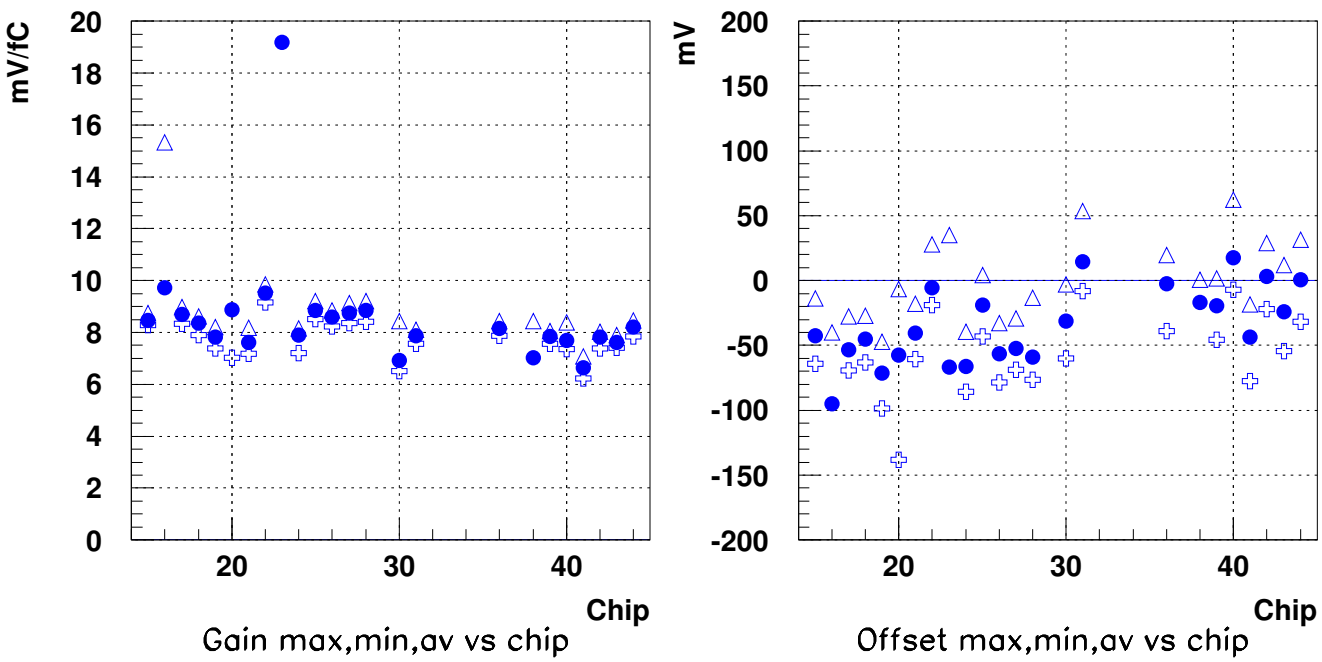


Aver/chan. Discr. Offset vs chip


Chip CMP16E Cdet=180 pF JTAG=1500 mV Fermilab Stand Feb 2000
fC
Chip
Qthr max − min vs chip
fC
Chip
Noise max − min vs chip


mV/fC
Chip
Gain max − min vs chip
mV
Chip
Offset max − min vs chip


Chip CMP16E Cdet=180 pF JTAG=1500 mV Fermilab Stand Feb 2000
fC
Chip
Qthr max,min,av vs chip
fC
Chip
Noise max,min,av vs chip


mV/fC
Chip
Gain max,min,av vs chip
mV
Chip
Offset max,min,av vs chip