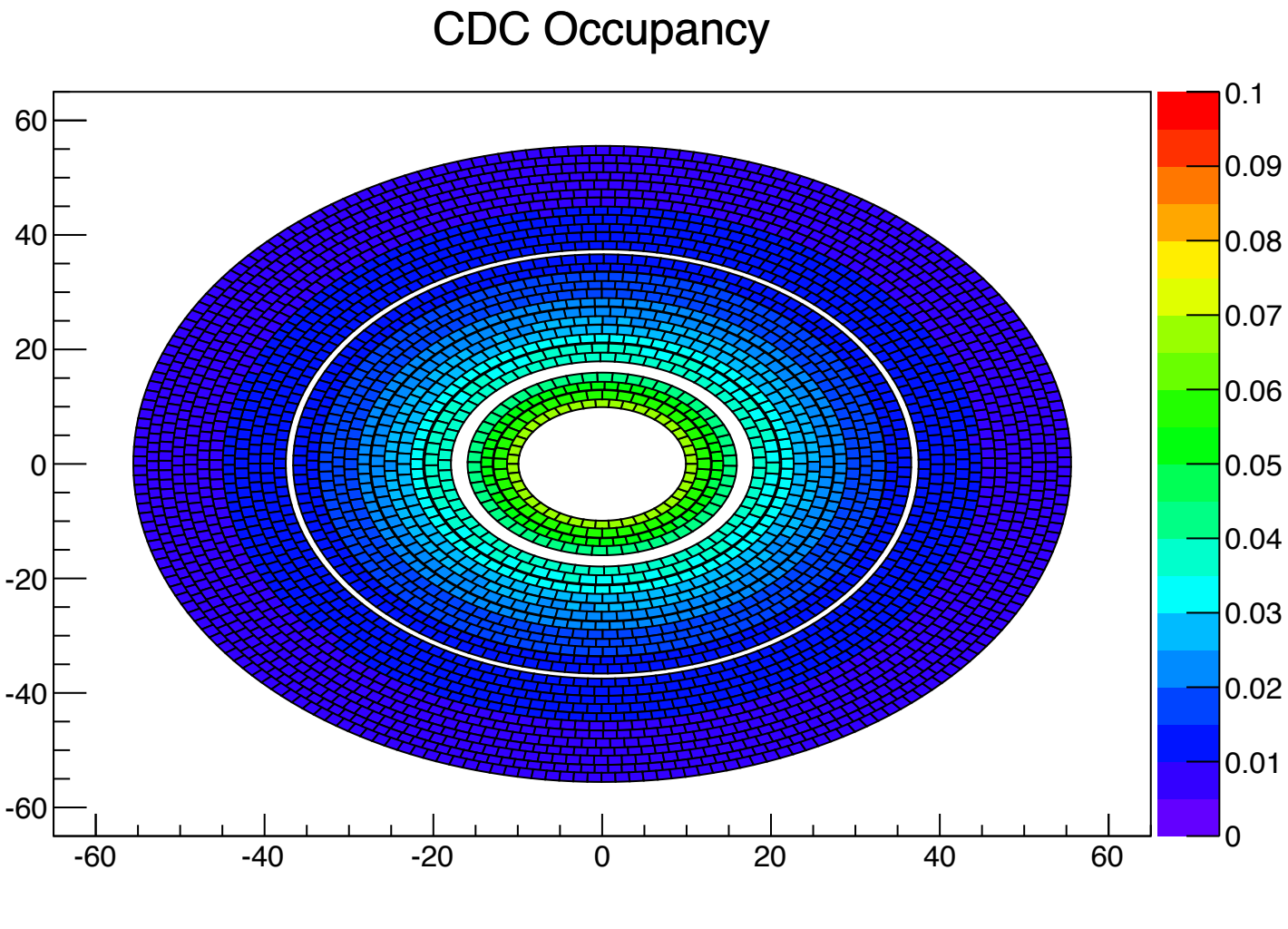
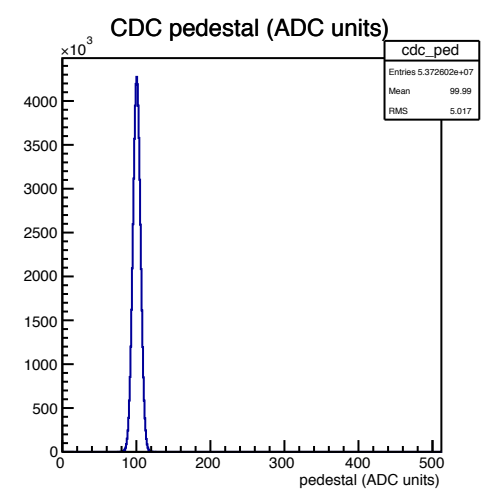
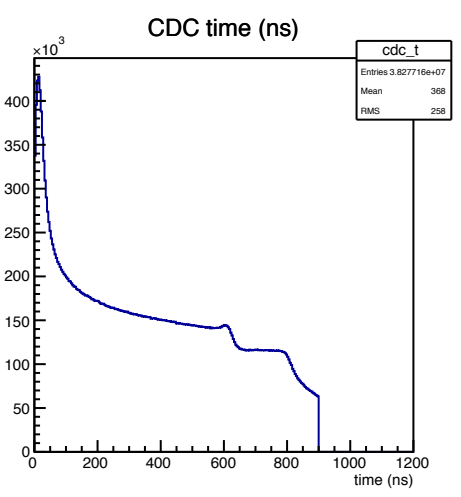
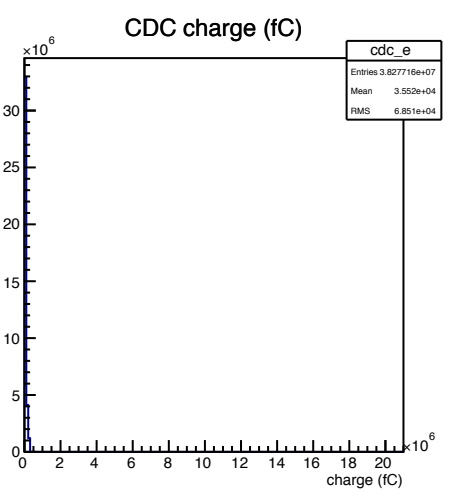
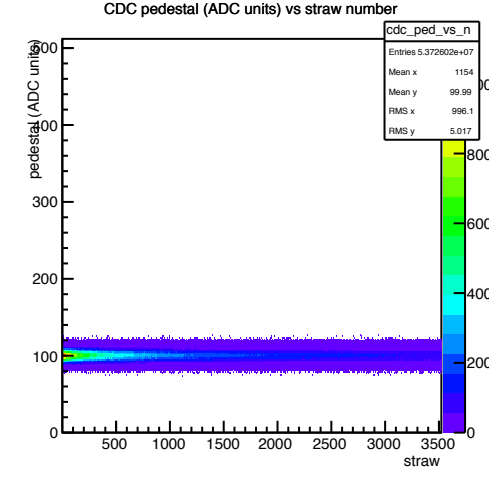
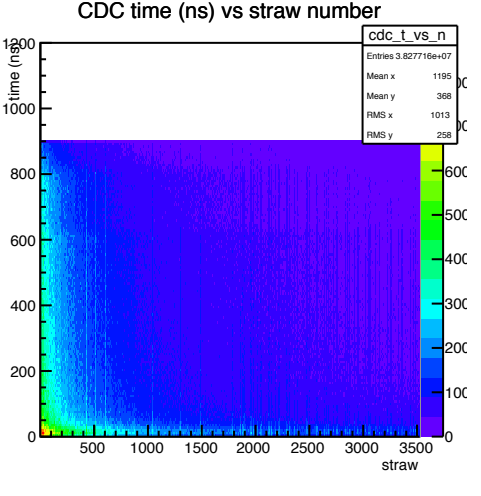

CDC Occupancy
60
40
20
0
-20
-40
-60
-60
-40
-20
0
20
40
60
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

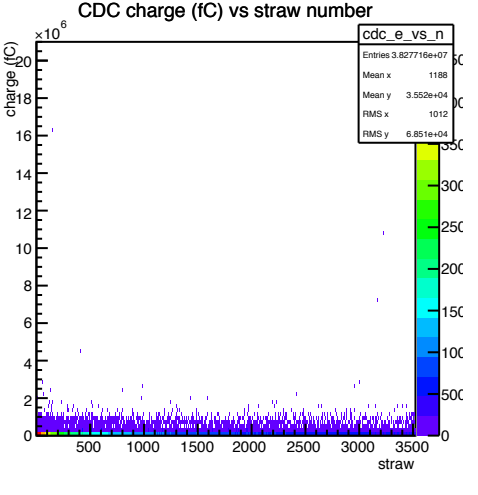

CDC pedestal (ADC units)
cdc_ped
Entries 5.372602e+07
Mean 99.99
RMS 5.017
pedestal (ADC units)

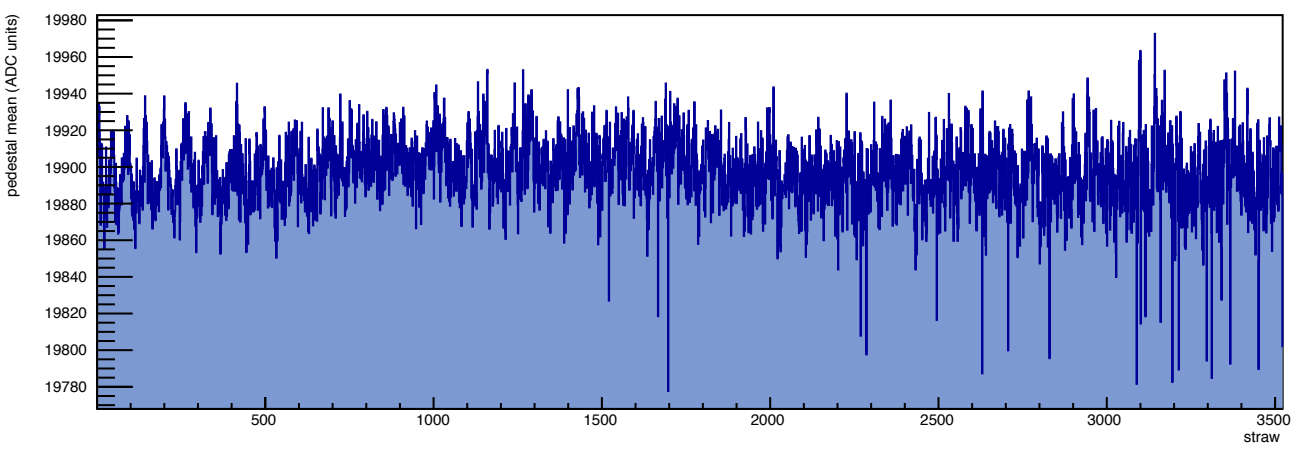

CDC time (ns)
cdc_t
Entries 3.827716e+07
Mean 368
RMS 258
time (ns)

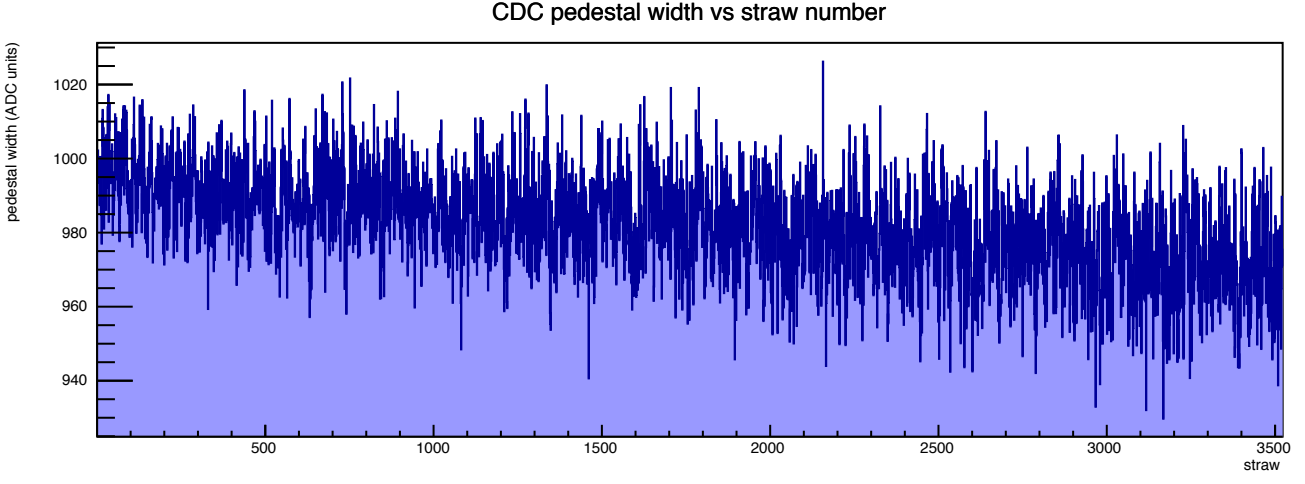

CDC charge (fC)
cdc_e
Entries 3.827716e+07
Mean 3.552e+04
RMS 6.851e+04
charge (fC)

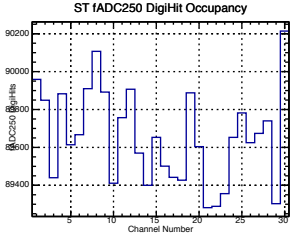

CDC pedestal (ADC units) vs straw number
cdc_ped_vs_n
Entries 5.372602e+07
Mean x 1154
Mean y 99.99
RMS x 996.1
RMS y 5.017
pedestal (ADC units)
straw

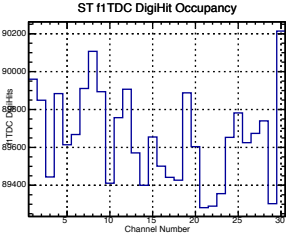

CDC time (ns) vs straw number
cdc_t_vs_n
Entries 3.827716e+07
Mean x 1195
Mean y 368
RMS x 1013
RMS y 258
time (ns)
straw

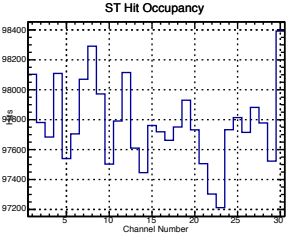

CDC charge (fC) vs straw number
cdc_e_vs_n
Entries 3.827716e+07
Mean x 1188
Mean y 3.552e+04
RMS x 1012
RMS y 6.851e+04
charge (fC)
straw

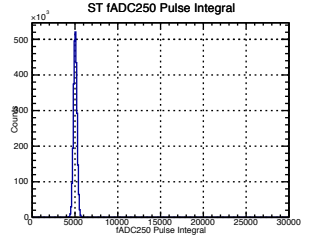

CDC pedestal mean vs straw number
pedestal mean (ADC units)
19980
19960
19940
19920
19900
19880
19860
19840
19820
19800
19780
500
1000
1500
2000
2500
3000
3500
straw

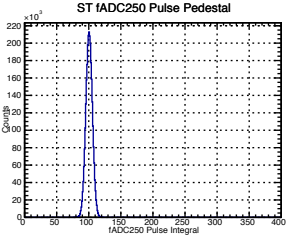

CDC pedestal width vs straw number
pedestal width (ADC units)
1020
1000
980
960
940
500
1000
1500
2000
2500
3000
3500
straw

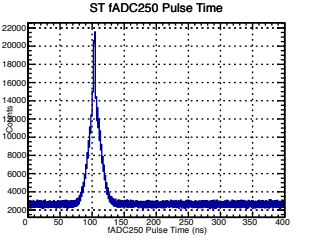

ST fADC250 DigiHit Occupancy
fADC250 DigiHits
Channel Number

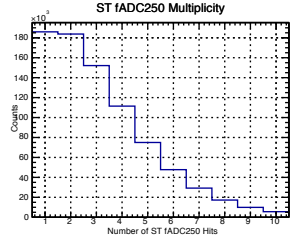

ST f1TDC DigiHit Occupancy
f1TDC DigiHits
Channel Number

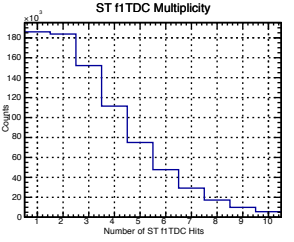

ST Hit Occupancy
Hits
Channel Number

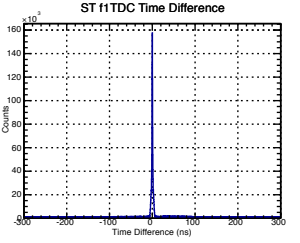

ST fADC250 Pulse Integral
Counts
fADC250 Pulse Integral

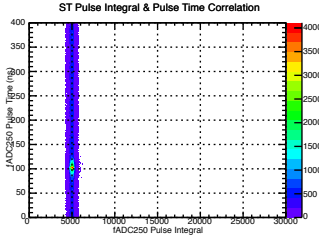

ST fADC250 Pulse Pedestal
Counts
fADC250 Pulse Integral

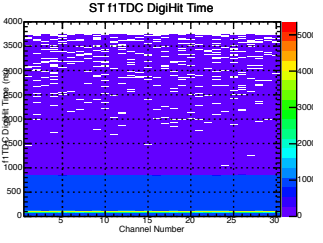

ST fADC250 Pulse Time
Counts
fADC250 Pulse Time (ns)

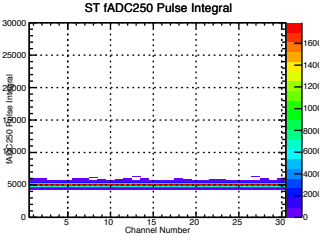

ST fADC250 Multiplicity
Counts
Number of ST fADC250 Hits

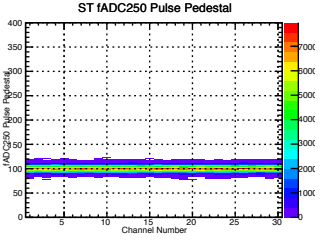

ST f1TDC Multiplicity
Counts
Number of ST f1TDC Hits

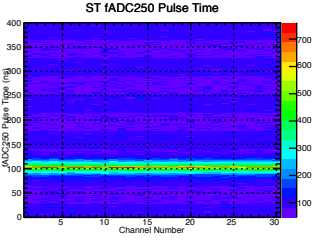

ST f1TDC Time Difference
Counts
Time Difference (ns)

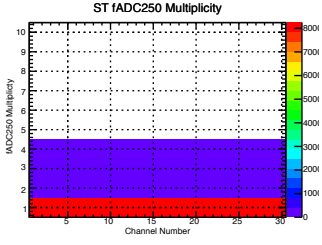

ST Pulse Integral & Pulse Time Correlation
fADC250 Pulse Time (ns)
fADC250 Pulse Integral

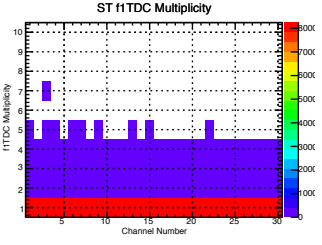

ST f1TDC DigiHit Time
f1TDC DigiHit Time (ns)
Channel Number

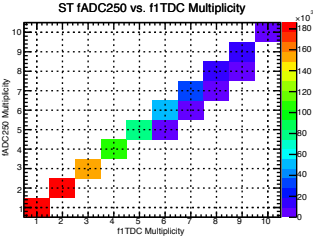

ST fADC250 Pulse Integral
fADC250 Pulse Integral
Channel Number

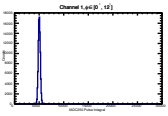

ST fADC250 Pulse Pedestal
fADC250 Pulse Pedestal
Channel Number

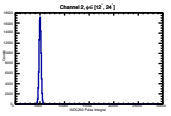

ST fADC250 Pulse Time
fADC250 Pulse Time (ns)
Channel Number

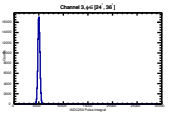

ST fADC250 Multiplicity
fADC250 Multiplicity
Channel Number

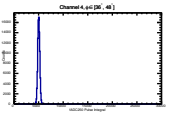

ST f1TDC Multiplicity
f1TDC Multiplicity
Channel Number

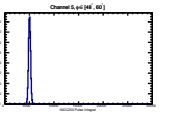

ST fADC250 vs. f1TDC Multiplicity
fADC250 Multiplicity
f1TDC Multiplicity

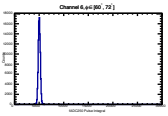

Channel 1, φ∈[0 , 12 ]

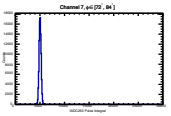

Channel 2, φ∈[12 , 24 ]

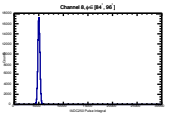

Channel 3, φ∈[24 , 36 ]

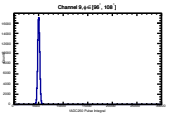

Channel 4, φ∈[36 , 48 ]

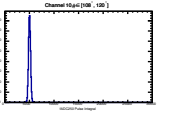

Channel 5, φ∈[48 , 60 ]

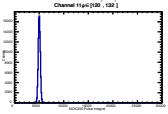

Channel 6, φ∈[60 , 72 ]

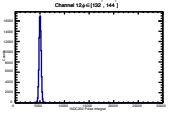

Channel 7, φ∈[72 , 84 ]

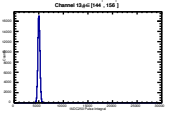

Channel 8, φ∈[84 , 96 ]

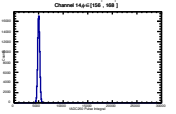

Channel 9, φ∈[96 , 108 ]

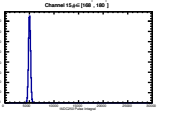

Channel 10, φ∈[108 , 120 ]

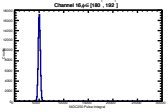

Channel 11, φ∈[120 , 132 ]

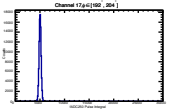

Channel 12, φ∈[132 , 144 ]

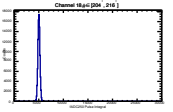

Channel 13, φ∈[144 , 156 ]

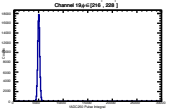

Channel 14, φ∈[156 , 168 ]

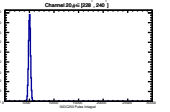

Channel 15, φ∈[168 , 180 ]

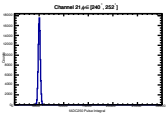

Channel 16, φ∈[180 , 192 ]

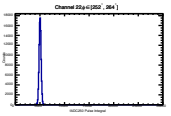

Channel 17, φ∈[192 , 204 ]

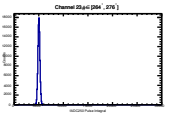

Channel 18, φ∈[204 , 216 ]

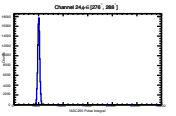

Channel 19, φ∈[216 , 228 ]

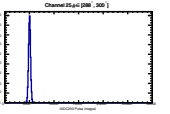

Channel 20, φ∈[228 , 240 ]

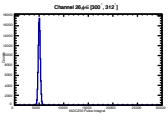

Channel 21, φ∈[240 , 252 ]

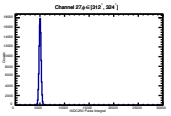

Channel 22, φ∈[252 , 264 ]

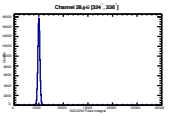

Channel 23, φ∈[264 , 276 ]

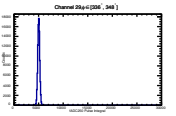

Channel 24, φ∈[276 , 288 ]

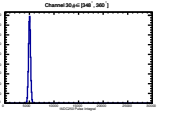

Channel 25, φ∈[288 , 300 ]

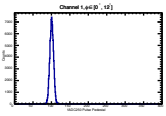

Channel 26, φ∈[300 , 312 ]

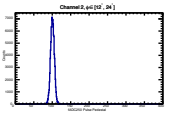

Channel 27, φ∈[312 , 324 ]

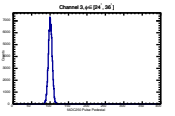

Channel 28, φ∈[324 , 336 ]

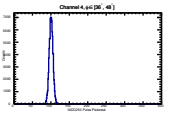

Channel 29, φ∈[336 , 348 ]

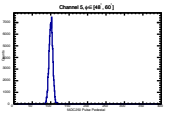

Channel 30, φ∈[348 , 360 ]

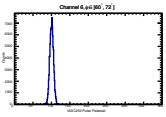

Channel 1, φ∈[0 , 12 ]

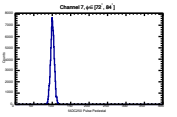

Channel 2, φ∈[12 , 24 ]

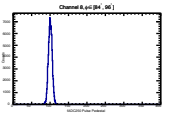

Channel 3, φ∈[24 , 36 ]

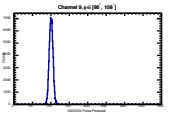

Channel 4, φ∈[36 , 48 ]

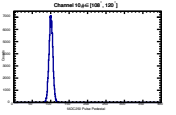

Channel 5, φ∈[48 , 60 ]

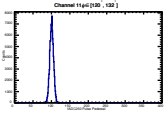

Channel 6, φ∈[60 , 72 ]

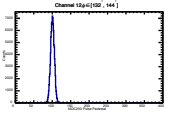

Channel 7, φ∈[72 , 84 ]

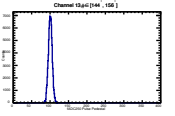

Channel 8, φ∈[84 , 96 ]

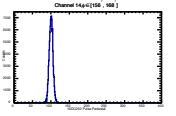

Channel 9, φ∈[96 , 108 ]

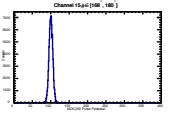

Channel 10, φ∈[108 , 120 ]

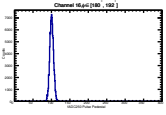

Channel 11, φ∈[120 , 132 ]

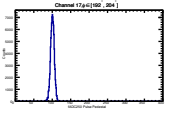

Channel 12, φ∈[132 , 144 ]

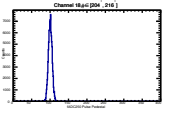

Channel 13, φ∈[144 , 156 ]

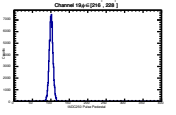

Channel 14, φ∈[156 , 168 ]

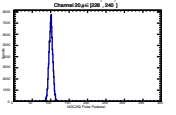

Channel 15, φ∈[168 , 180 ]

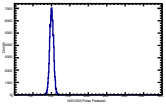

Channel 16, φ∈[180 , 192 ]

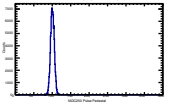

Channel 17, φ∈[192 , 204 ]

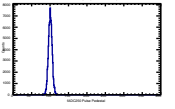

Channel 18, φ∈[204 , 216 ]

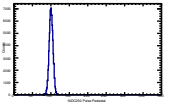

Channel 19, φ∈[216 , 228 ]

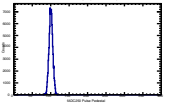

Channel 20, φ∈[228 , 240 ]

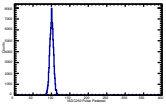

Channel 21, φ∈[240 , 252 ]

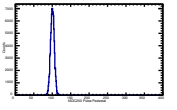

Channel 22, φ∈[252 , 264 ]

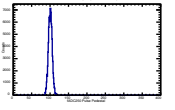

Channel 23, φ∈[264 , 276 ]

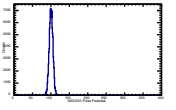

Channel 24, φ∈[276 , 288 ]

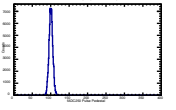

Channel 25, φ∈[288 , 300 ]

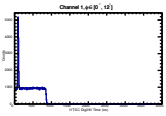

Channel 26, φ∈[300 , 312 ]


Channel 27, φ∈[312 , 324 ]


Channel 28, φ∈[324 , 336 ]


Channel 29, φ∈[336 , 348 ]


Channel 30, φ∈[348 , 360 ]


Channel 1, φ∈[0 , 12 ]
Counts
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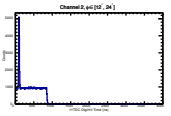
Channel 2, φ∈[12 , 24 ]
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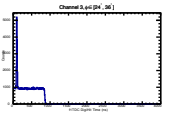
Channel 3, φ∈[24 , 36 ]
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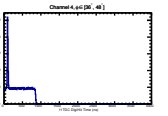
Channel 4, φ∈[36 , 48 ]
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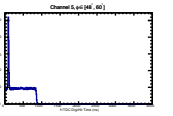
Channel 5, φ∈[48 , 60 ]
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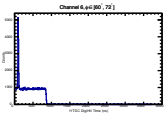
Channel 6, φ∈[60 , 72 ]
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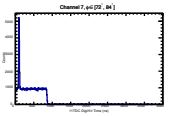
Channel 7, φ∈[72 , 84 ]
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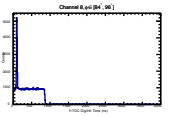
Channel 8, φ∈[84 , 96 ]
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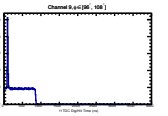
Channel 9, φ∈[96 , 108 ]
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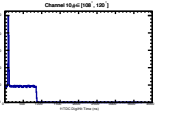
Channel 10, φ∈[108 , 120 ]
Counts
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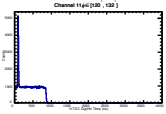
Channel 11, φ∈[120 , 132 ]
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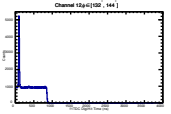
Channel 12, φ∈[132 , 144 ]
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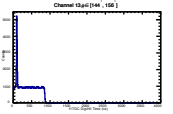
Channel 13, φ∈[144 , 156 ]
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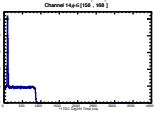
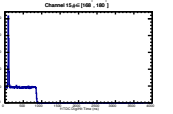
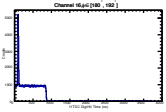
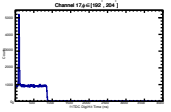
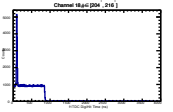
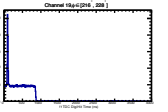

Channel 14, φ∈[156 , 168 ]
Counts
HTDC Digi#4 Time (ns)


Channel 15, φ∈[168 , 180 ]
Counts
HTDC Digi#4 Time (ns)


Channel 16, φ∈[180 , 192 ]
Counts
HTDC Digi#4 Time (ns)


Channel 17, φ∈[192 , 204 ]
Counts
HTDC Digi#4 Time (ns)


Channel 18, φ∈[204 , 216 ]
Counts
HTDC Digi#4 Time (ns)


Channel 19, φ∈[216 , 228 ]
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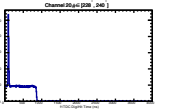
HTDC Digi#4 Time (ns)


Channel 20, φ∈[228 , 240 ]
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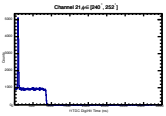
Channel 21, φ∈[240 , 252 ]
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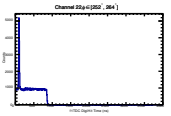
HTDC Digi#4 Time (ns)


Channel 22, φ∈[252 , 264 ]
Counts
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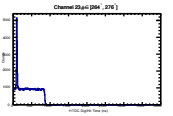
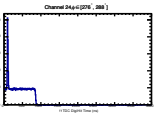
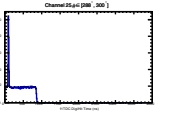

Channel 23, φ∈[264 , 276 ]
Counts
HTDC Digi#4 Time (ns)


Channel 24, φ∈[276 , 288 ]
Counts
HTDC Digi#4 Time (ns)


Channel 25, φ∈[288 , 300 ]
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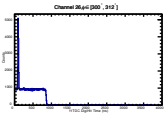
HTDC Digi#4 Time (ns)


Channel 26, φ∈[300 , 312 ]
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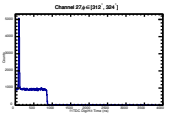
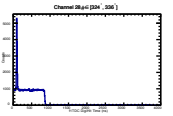
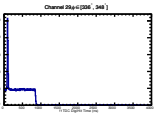
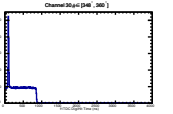
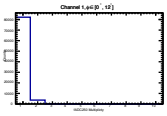
HTDC Digi#4 Time (ns)

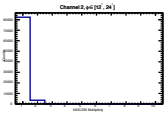

Channel 27, φ∈[312 , 324 ]
Counts
HTDC Digi#4 Time (ns)


Channel 28, φ∈[324 , 336 ]
Counts
HTDC Digi#4 Time (ns)


Channel 29, φ∈[336 , 348 ]
Counts
HTDC Digi#4 Time (ns)


Channel 30, φ∈[348 , 360 ]
Counts
HTDC Digi#4 Time (ns)


Channel 1, φ∈[0 , 12 ]
MADC32 Multiplicity


Channel 2, φ∈[12 , 24 ]
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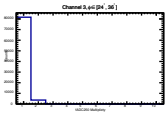
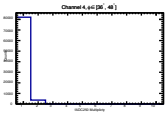
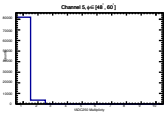
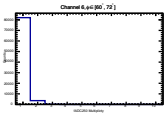
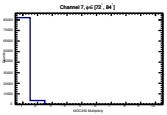
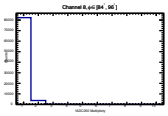

Channel 3, φ∈[24 , 36 ]
MADC32 Multiplicity

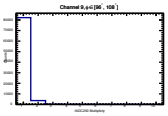

Channel 4, φ∈[36 , 48 ]
MADC32 Multiplicity

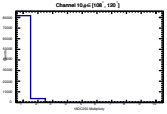

Channel 5, φ∈[48 , 60 ]
MADC32 Multiplicity


Channel 6, φ∈[60 , 72 ]
MADC32 Multiplicity


Channel 7, φ∈[72 , 84 ]
MADC32 Multiplicity


Channel 8, φ∈[84 , 96 ]
MADC32 Multiplicity


Channel 9, φ∈[96 , 108 ]
MADC32 Multiplicity


Channel 10, φ∈[108 , 120 ]
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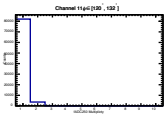
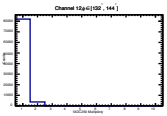
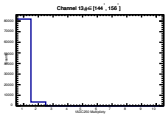
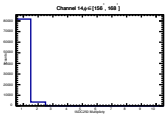
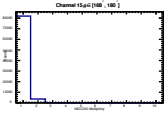
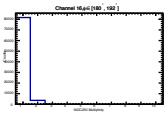

Channel 11, φ∈[120 , 132 ]
MADC32 Multiplicity


Channel 12, φ∈[132 , 144 ]
MADC32 Multiplicity


Channel 13, φ∈[144 , 156 ]
MADC32 Multiplicity


Channel 14, φ∈[156 , 168 ]
MADC32 Multiplicity


Channel 15, φ∈[168 , 180 ]
MADC32 Multiplicity


Channel 16, φ∈[180 , 192 ]
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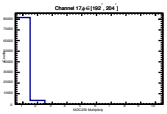
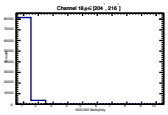
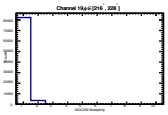
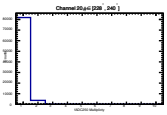
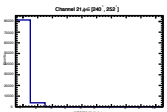
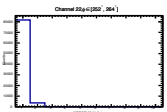

Channel 17, φ∈[192 , 204 ]
MADC32 Multiplicity

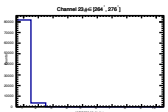

Channel 18, φ∈[204 , 216 ]
MADC32 Multiplicity

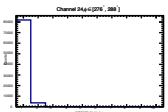

Channel 19, φ∈[216 , 228 ]
MADC32 Multiplicity

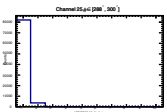

Channel 20, φ∈[228 , 240 ]
MADC32 Multiplicity

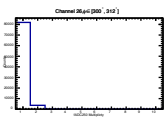

Channel 21, φ∈[240 , 252 ]
MADC32 Multiplicity

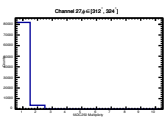

Channel 22, φ∈[252 , 264 ]
MADC32 Multiplicity

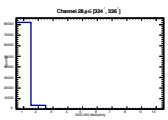

Channel 23, φ∈[264 , 276 ]
MADC32 Multiplicity

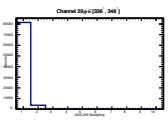

Channel 24, φ∈[276 , 288 ]
MADC32 Multiplicity

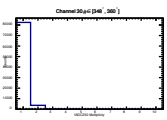

Channel 25, φ∈[288 , 300 ]
MADC32 Multiplicity


Channel 26, φ∈[300 , 312 ]
MADC32 Multiplicity


Channel 27, φ∈[312 , 324 ]
MADC32 Multiplicity


Channel 28, φ∈[324 , 336 ]
MADC32 Multiplicity


Channel 29, φ∈[336 , 348 ]
MADC32 Multiplicity


Channel 30, φ∈[348 , 360 ]
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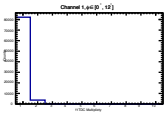
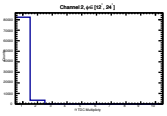
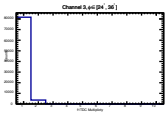
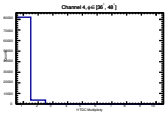
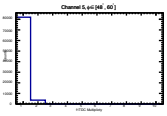
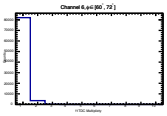
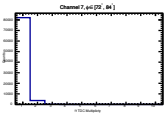
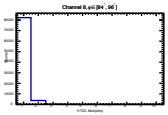
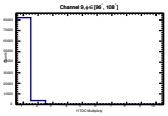
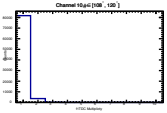
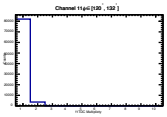
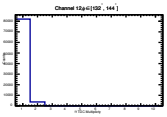
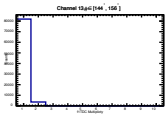
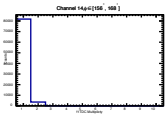
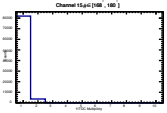
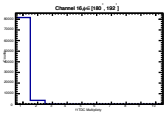
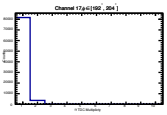
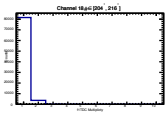
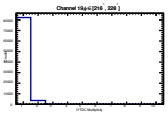
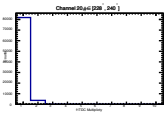
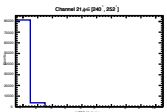
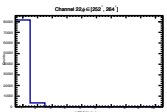
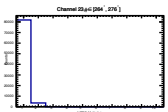
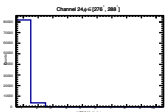
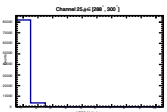
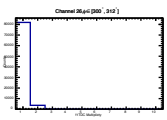
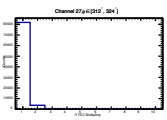
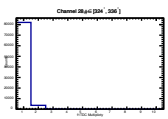
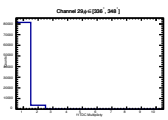
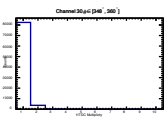
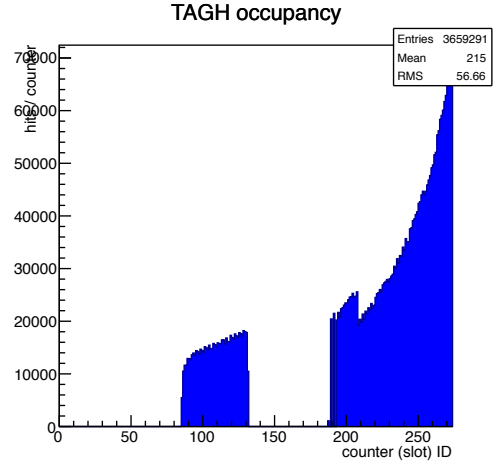
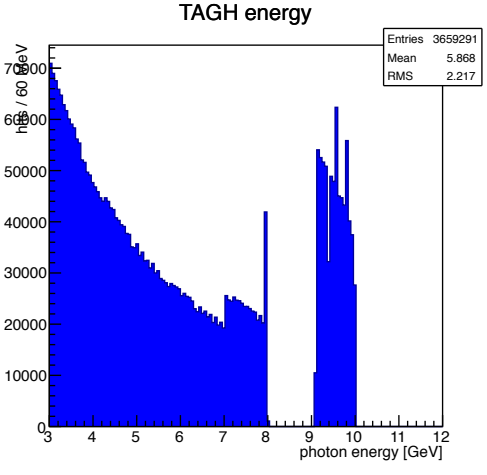
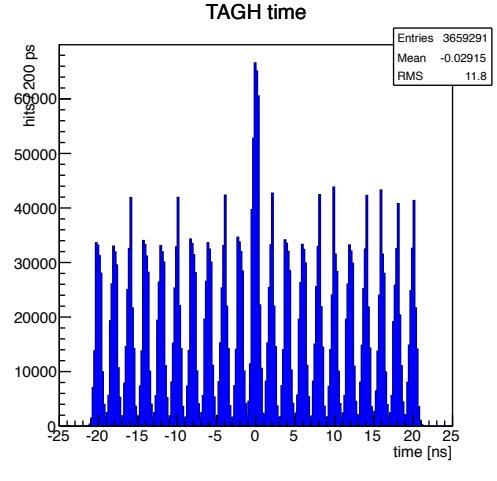
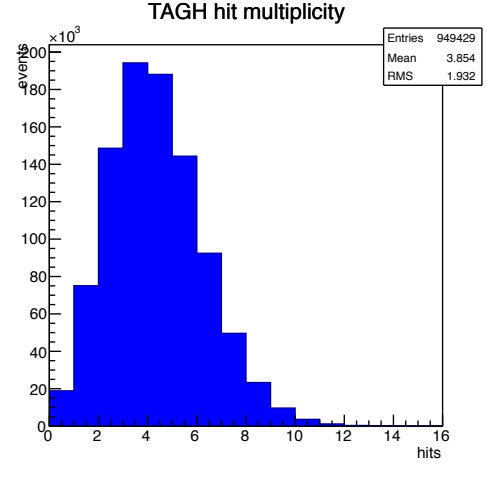
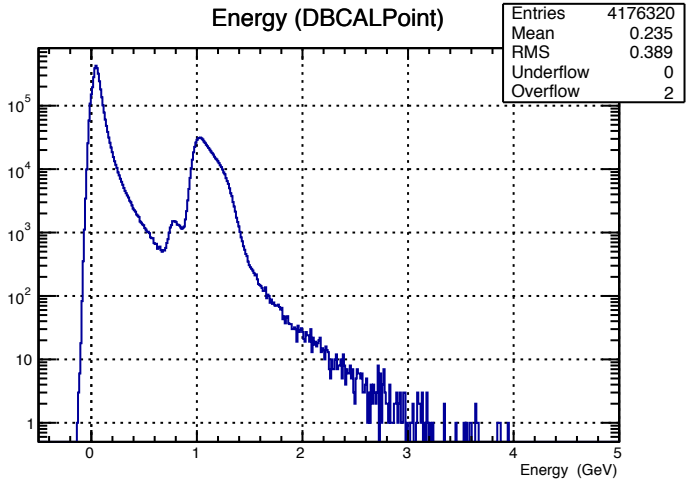

Channel 1, φ∈[0 , 12]

Channel 2, φ∈[12 , 24]

Channel 3, φ∈[24 , 36]

Channel 4, φ∈[36 , 48]

Channel 5, φ∈[48 , 60]

Channel 6, φ∈[60 , 72]

Channel 7, φ∈[72 , 84]

Channel 8, φ∈[84 , 96]

Channel 9, φ∈[96 , 108]

Channel 10, φ∈[108 , 120]

Channel 11, φ∈[120 , 132]

Channel 12, φ∈[132 , 144]

Channel 13, φ∈[144 , 156]

Channel 14, φ∈[156 , 168]

Channel 15, φ∈[168 , 180]

Channel 16, φ∈[180 , 192]

Channel 17, φ∈[192 , 204]

Channel 18, φ∈[204 , 216]

Channel 19, φ∈[216 , 228]

Channel 20, φ∈[228 , 240]

Channel 21, φ∈[240 , 252]

Channel 22, φ∈[252 , 264]

Channel 23, φ∈[264 , 276]

Channel 24, φ∈[276 , 288]

Channel 25, φ∈[288 , 300]

Channel 26, φ∈[300 , 312]

Channel 27, φ∈[312 , 324]

Channel 28, φ∈[324 , 336]

Channel 29, φ∈[336 , 348]

Channel 30, φ∈[348 , 360]

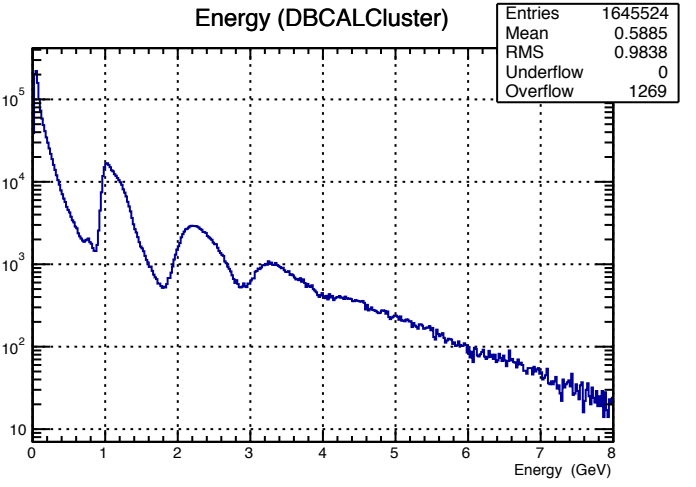

TAGH occupancy
Entries 3659291
Mean 215
RMS 56.66
hits / counter
counter (slot) ID

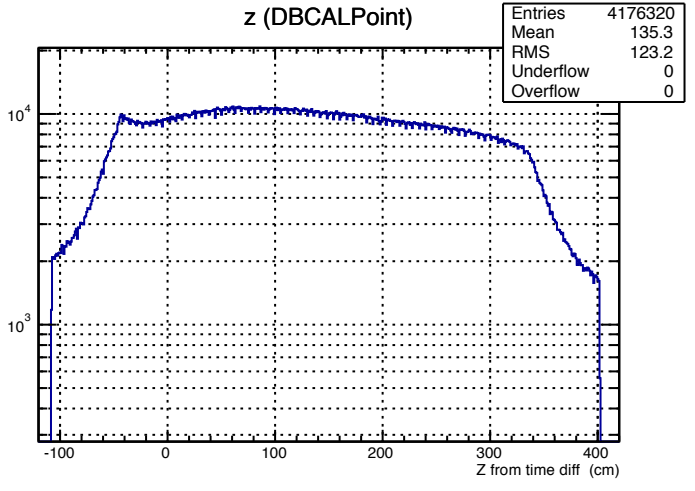

TAGH energy
Entries 3659291
Mean 5.868
RMS 2.217
hits / 60 MeV
photon energy [GeV]

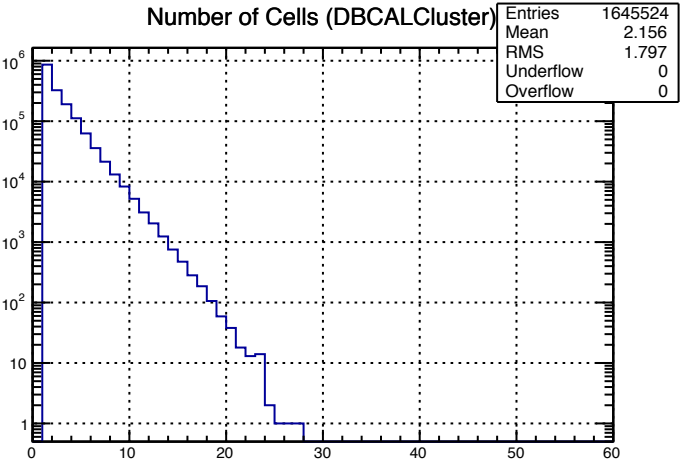

TAGH time
Entries 3659291
Mean -0.02915
RMS 11.8
hits / 200 ps
time [ns]

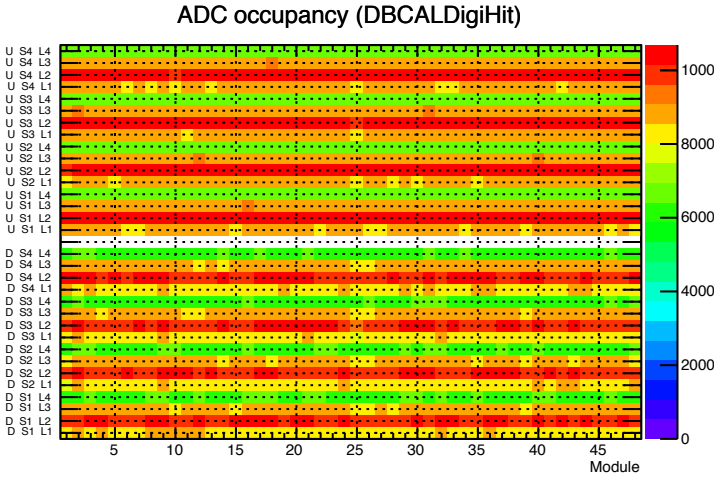

TAGH hit multiplicity
Entries 949429
Mean 3.854
RMS 1.932
events
×10^3
hits

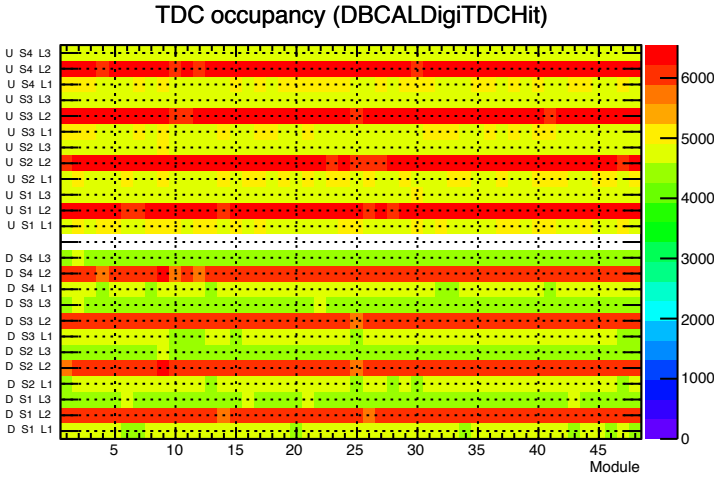

Energy (DBCALPoint)
Entries 4176320
Mean 0.235
RMS 0.389
Underflow 0
Overflow 2
Energy (GeV)

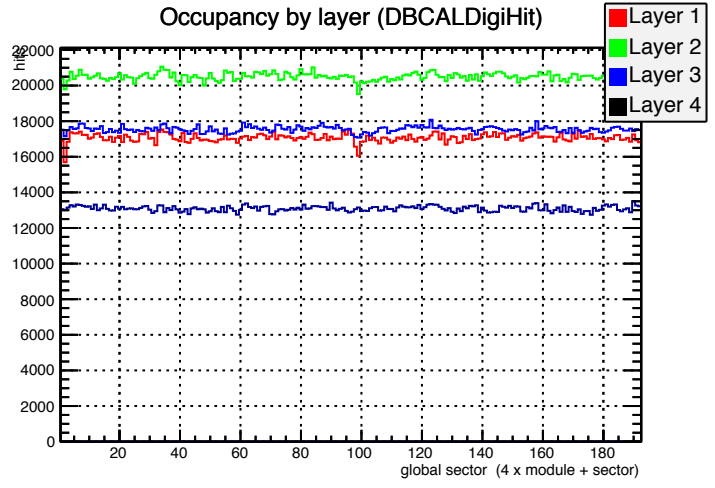

Energy (DBCALCluster)
Entries 1645524
Mean 0.5885
RMS 0.9838
Underflow 0
Overflow 1269
Energy (GeV)

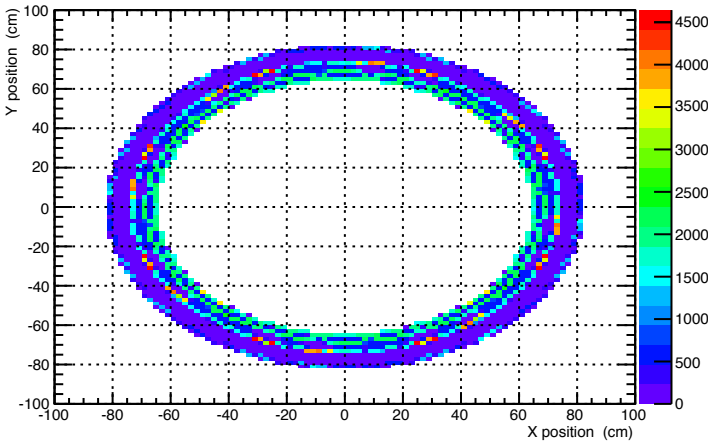

z (DBCALPoint)
Entries 4176320
Mean 135.3
RMS 123.2
Underflow 0
Overflow 0
Z from time diff (cm)

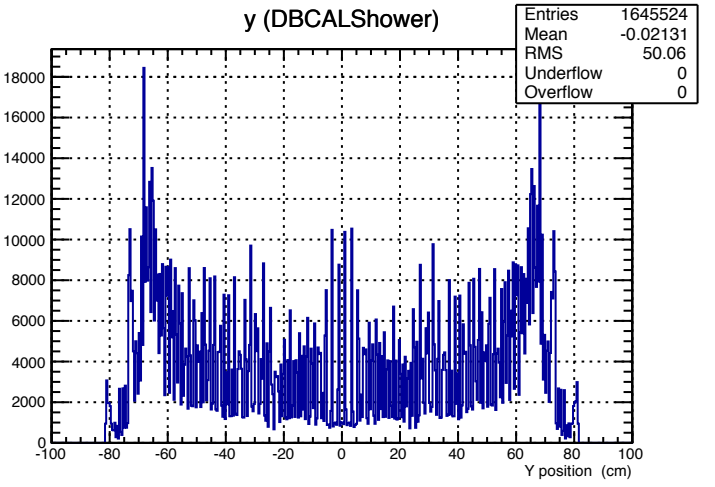

Number of Cells (DBCALCluster)
Entries 1645524
Mean 2.156
RMS 1.797
Underflow 0
Overflow 0

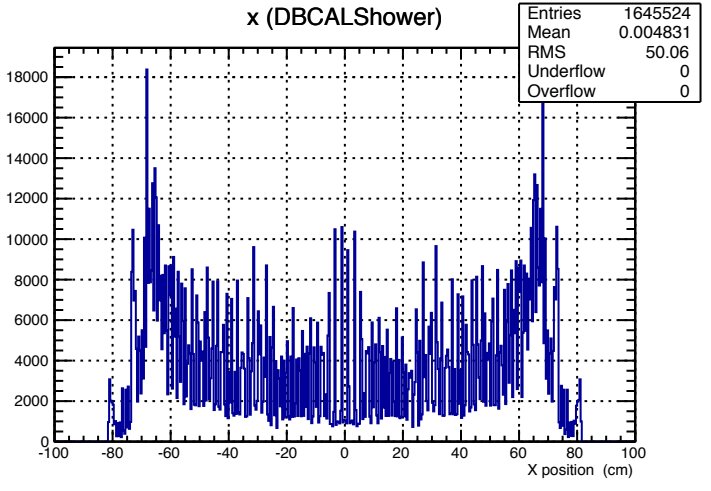

ADC occupancy (DBCALDigiHit)
U S4 L4
U S4 L3
U S4 L2
U S4 L1
U S3 L4
U S3 L3
U S3 L2
U S3 L1
U S2 L4
U S2 L3
U S2 L2
U S2 L1
U S1 L4
U S1 L3
U S1 L2
U S1 L1
D S4 L4
D S4 L3
D S4 L2
D S4 L1
D S3 L4
D S3 L3
D S3 L2
D S3 L1
D S2 L4
D S2 L3
D S2 L2
D S2 L1
D S1 L4
D S1 L3
D S1 L2
D S1 L1
1000
8000
6000
4000
2000
0
5
10
15
20
25
30
35
40
45
Module

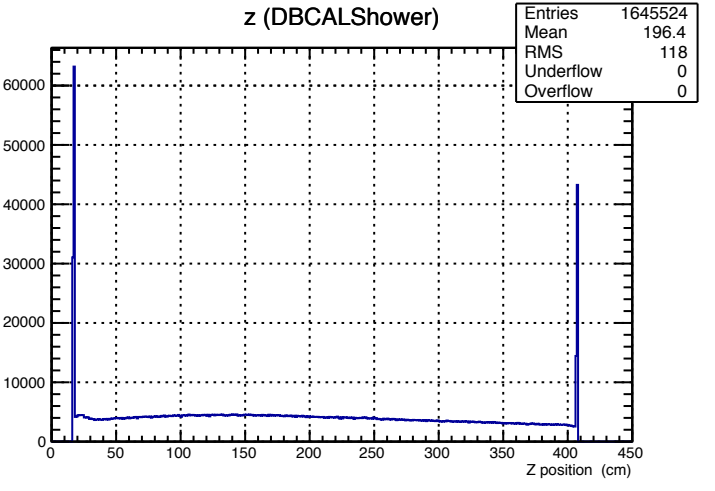

TDC occupancy (DBCALDigiTDCHit)
U S4 L3
U S4 L2
U S4 L1
U S3 L3
U S3 L2
U S3 L1
U S2 L3
U S2 L2
U S2 L1
U S1 L3
U S1 L2
U S1 L1
D S4 L3
D S4 L2
D S4 L1
D S3 L3
D S3 L2
D S3 L1
D S2 L3
D S2 L2
D S2 L1
D S1 L3
D S1 L2
D S1 L1
6000
5000
4000
3000
2000
1000
0
5
10
15
20
25
30
35
40
45
Module

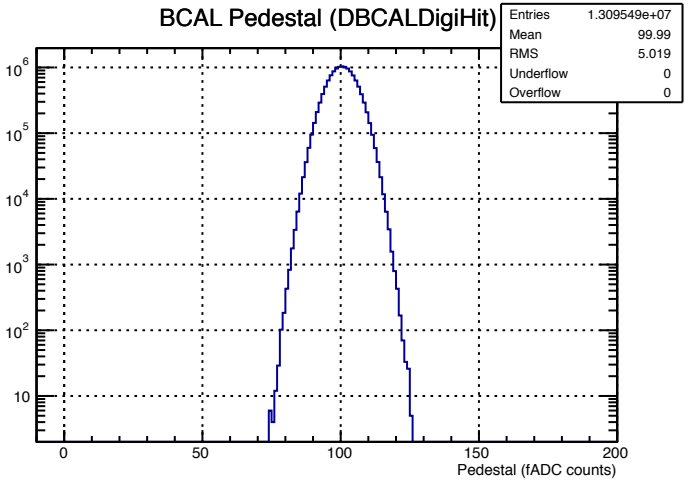

Occupancy by layer (DBCALDigiHit)
Layer 1
Layer 2
Layer 3
Layer 4
hits
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
20
40
60
80
100
120
140
160
180
global sector (4 x module + sector)

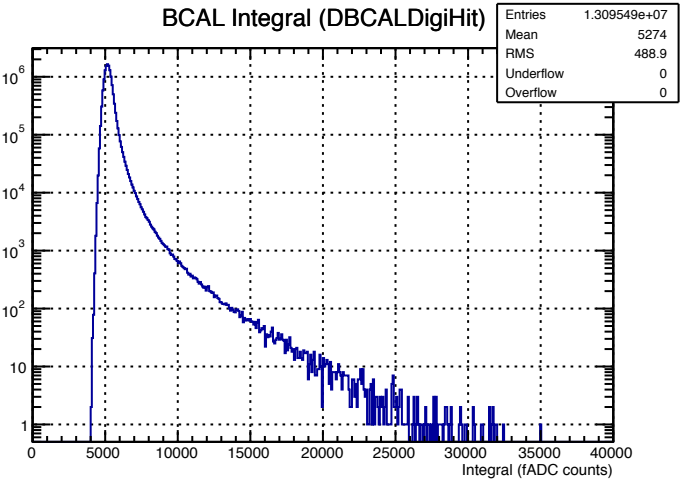

Shower position (DBCALShower)
Y position (cm)
X position (cm)

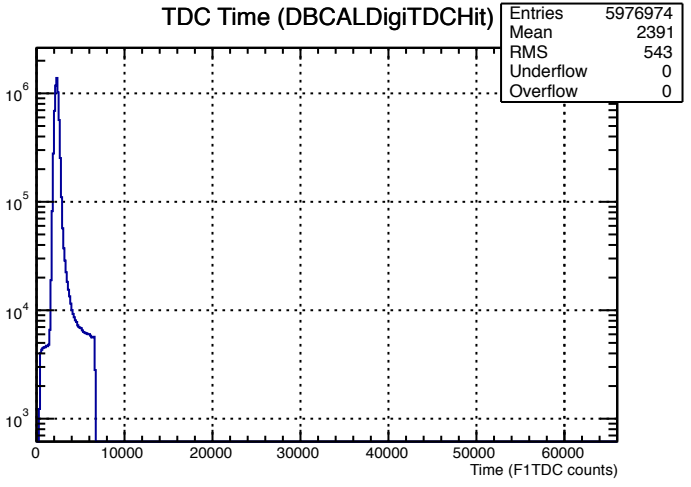

y (DBCALShower)
Entries 1645524
Mean -0.02131
RMS 50.06
Underflow 0
Overflow 0
Y position (cm)

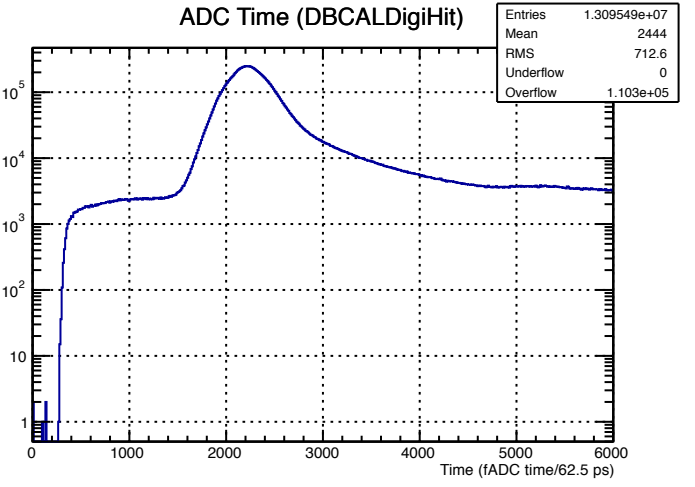

x (DBCALShower)
Entries 1645524
Mean 0.004831
RMS 50.06
Underflow 0
Overflow 0
X position (cm)

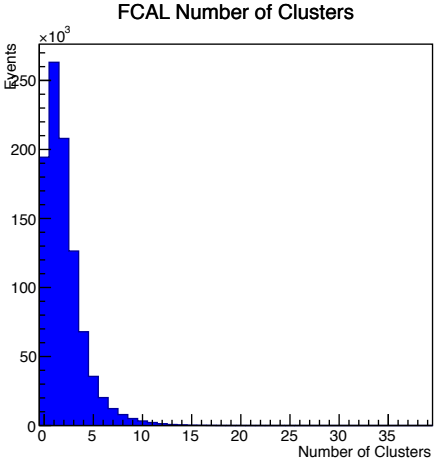

z (DBCALShower)
Entries 1645524
Mean 196.4
RMS 118
Underflow 0
Overflow 0
Z position (cm)

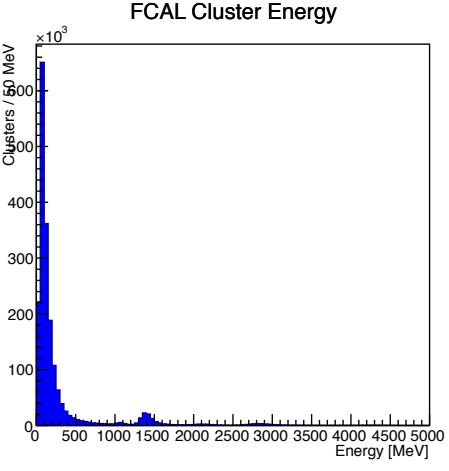

BCAL Pedestal (DBCALDigiHit)
Entries 1.309549e+07
Mean 99.99
RMS 5.019
Underflow 0
Overflow 0
Pedestal (fADC counts)

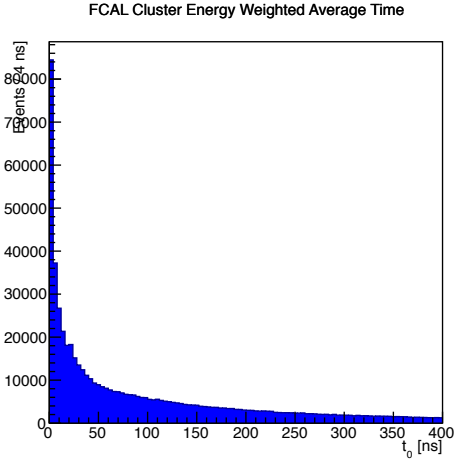

BCAL Integral (DBCALDigiHit)
Entries 1.309549e+07
Mean 5274
RMS 488.9
Underflow 0
Overflow 0
Integral (fADC counts)

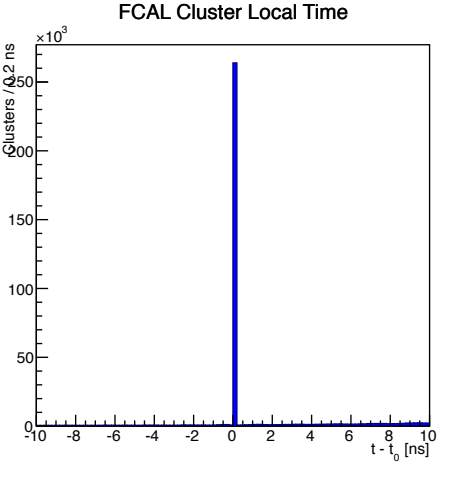

TDC Time (DBCALDigiTDCHit)
Entries 5976974
Mean 2391
RMS 543
Underflow 0
Overflow 0
Time (F1TDC counts)

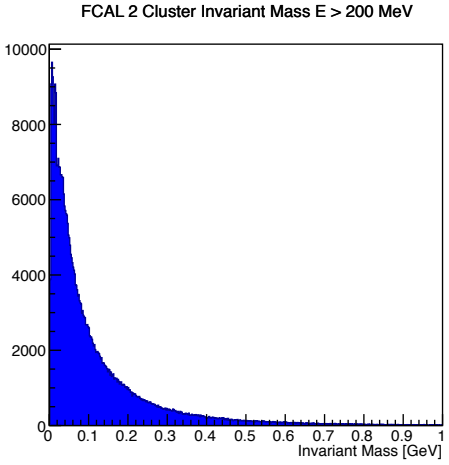

ADC Time (DBCALDigiHit)
Entries 1.309549e+07
Mean 2444
RMS 712.6
Underflow 0
Overflow 1.103e+05
Time (fADC time/62.5 ps)

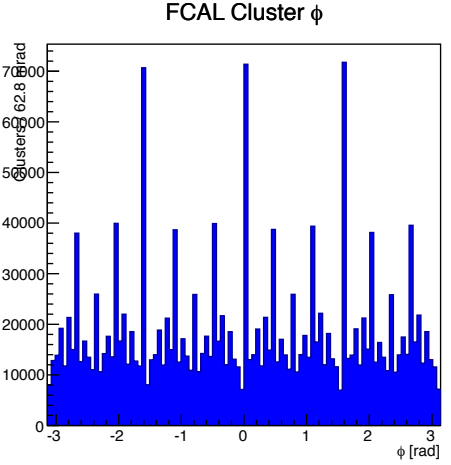

FCAL Number of Clusters
Events
×10^3
250
200
150
100
50
0
0 5 10 15 20 25 30 35
Number of Clusters

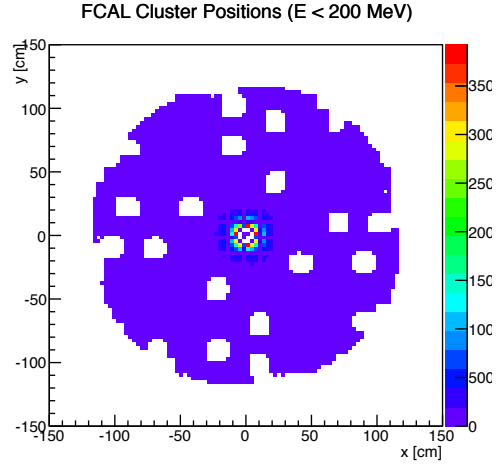

FCAL Cluster Energy
Clusters / 50 MeV
×10^3
500
400
300
200
100
0
0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000
Energy [MeV]

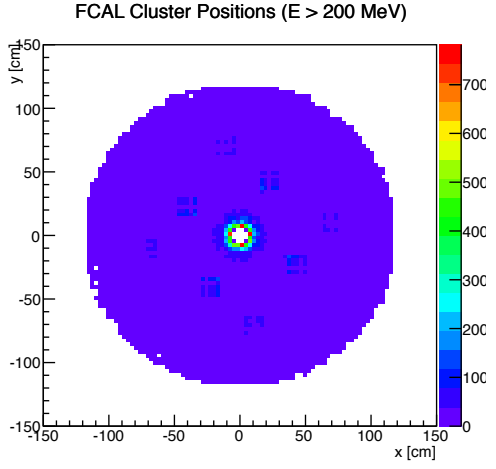

FCAL Cluster Energy Weighted Average Time
Events / 1 ns
80000
70000
60000
50000
40000
30000
20000
10000
0
0 50 100 150 200 250 300 350 400
t0 [ns]

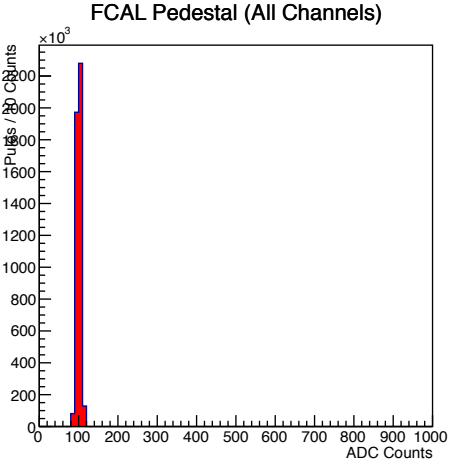

FCAL Cluster Local Time
Clusters / 0.2 ns
×10^3
250
200
150
100
50
0
-10 -8 -6 -4 -2 0 2 4 6 8 10
t - t0 [ns]

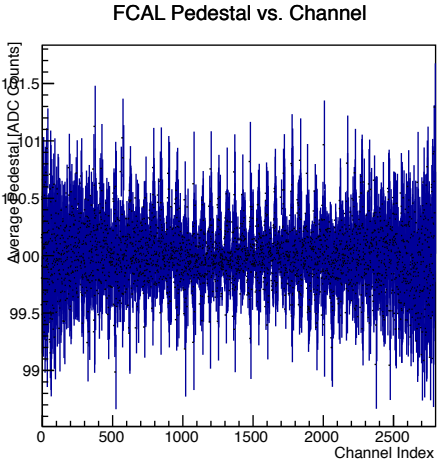

FCAL 2 Cluster Invariant Mass E > 200 MeV
10000
8000
6000
4000
2000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Invariant Mass [GeV]

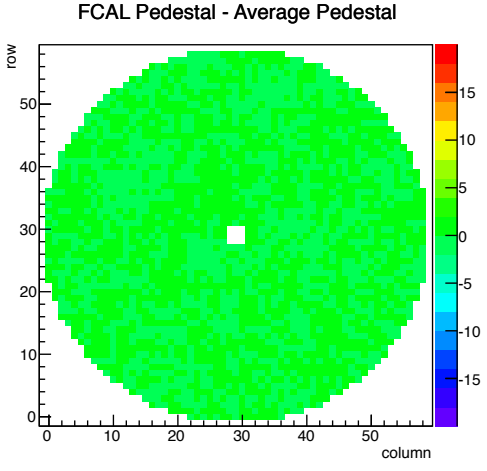

FCAL Cluster ϕ
Clusters / 62.8 mrad
70000
60000
50000
40000
30000
20000
10000
0
-3 -2 -1 0 1 2 3
ϕ [rad]

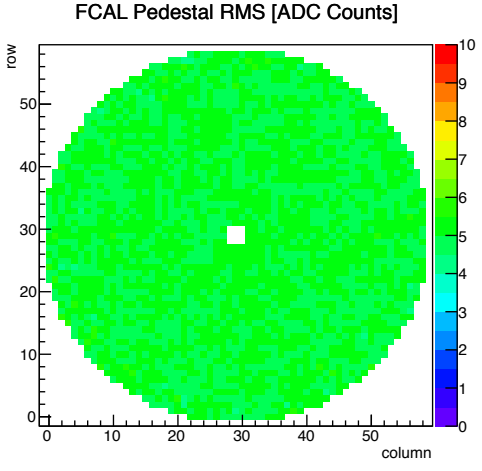

FCAL Cluster Positions (E < 200 MeV)
y [cm]
150
100
50
0
-50
-100
-150
-150 -100 -50 0 50 100 150
x [cm]
350
300
250
200
150
100
500
0


FCAL Cluster Positions (E > 200 MeV)
y [cm]
150
100
50
0
-50
-100
-150
-150 -100 -50 0 50 100 150
x [cm]
700
600
500
400
300
200
100
0

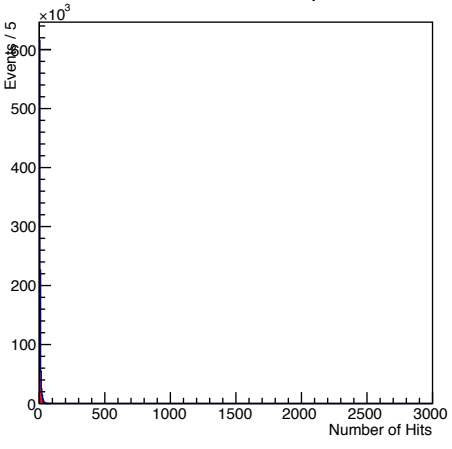

FCAL Pedestal (All Channels)
×10^3
Pulses / 10 Counts
ADC Counts


FCAL Pedestal vs. Channel
Average Pedestal [ADC Counts]
Channel Index

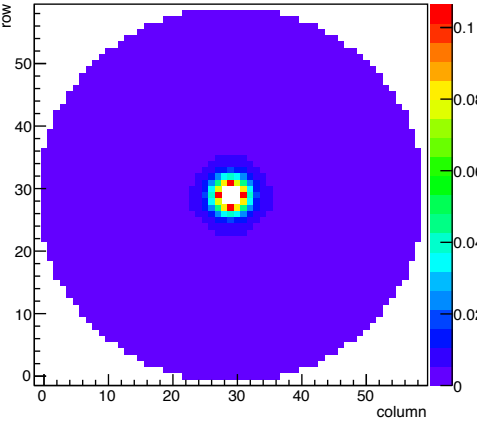

FCAL Pedestal - Average Pedestal
row
column


FCAL Pedestal RMS [ADC Counts]
row
column

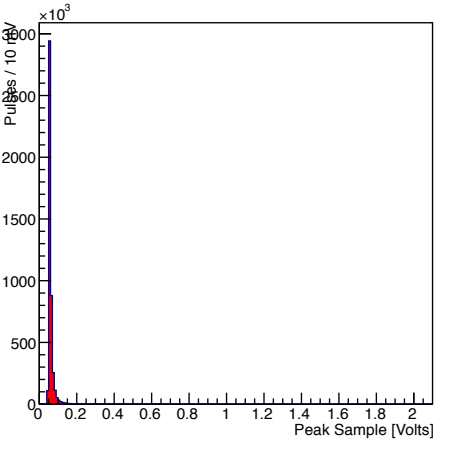
FCAL Number of Raw Hits per Event



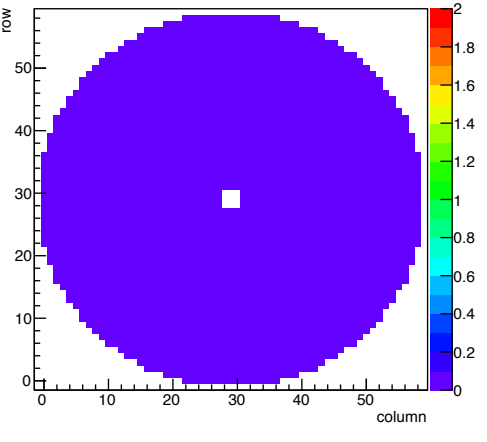

FCAL Pulse Occupancy per Event

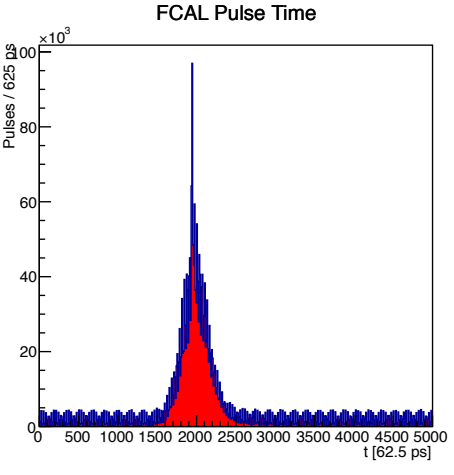


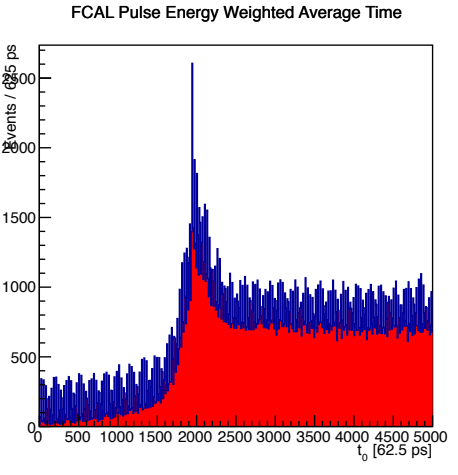

FCAL Pulse Peak

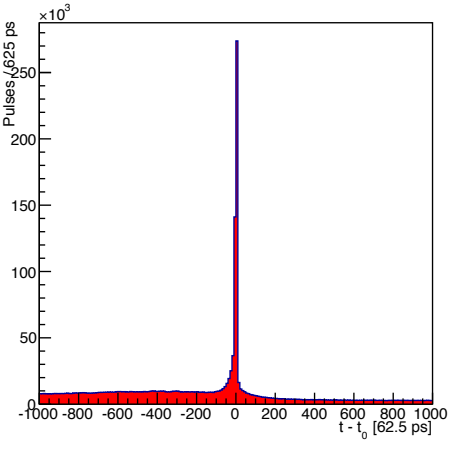


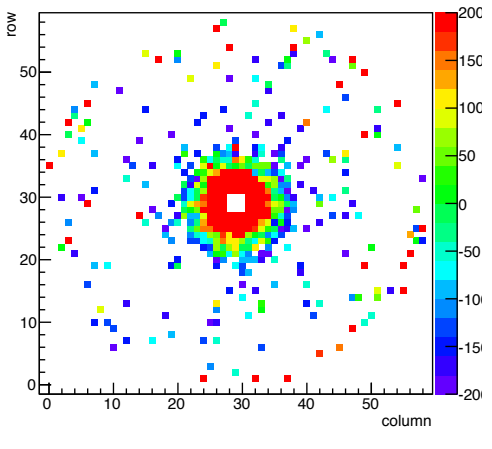

FCAL Pulse Peak [Volts]

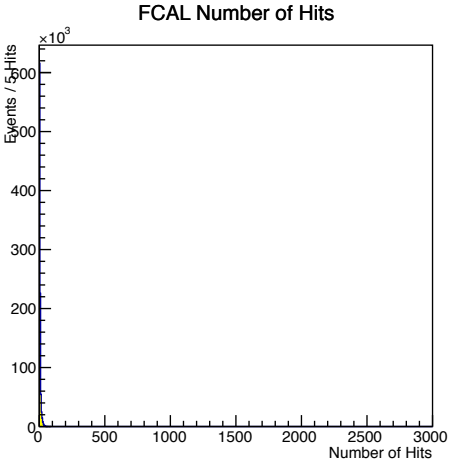


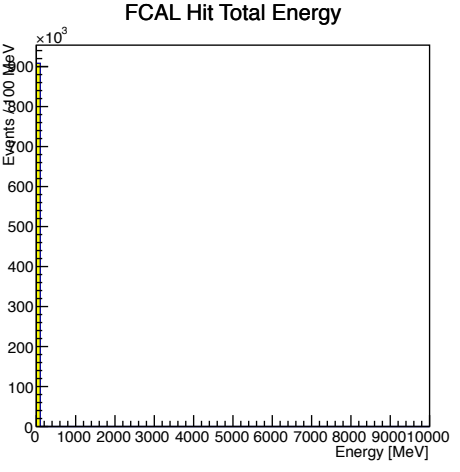

FCAL Pulse Time
×10^3
Pulses / 625 ps
t [62.5 ps]

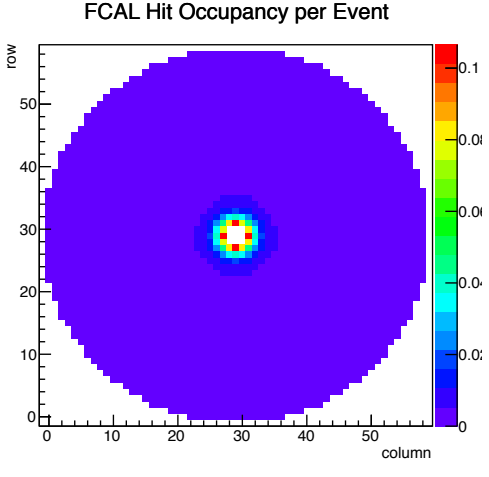

FCAL Pulse Energy Weighted Average Time
Events / 625 ps
t_0 [62.5 ps]

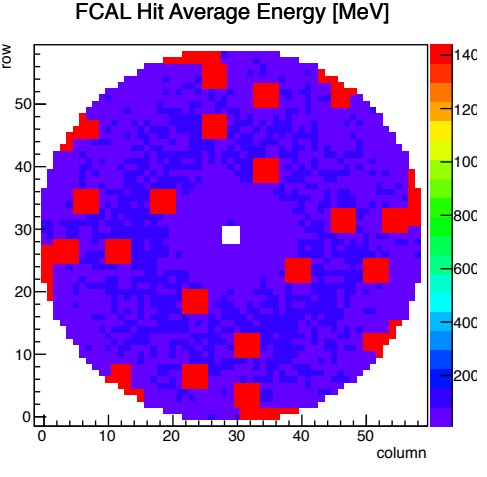

FCAL Pulse Local Time
×10^3
Pulses / 625 ps
t - t_0 [62.5 ps]

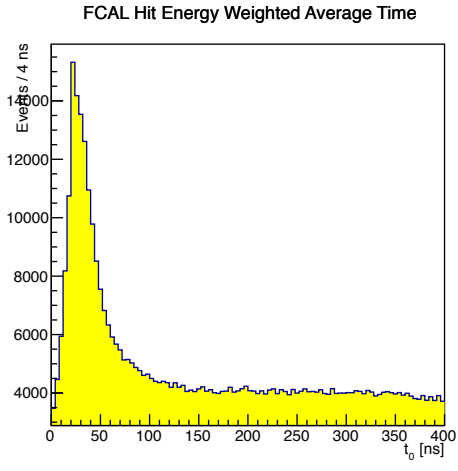

FCAL Pulse Local Time [62.5 ps]
row
column

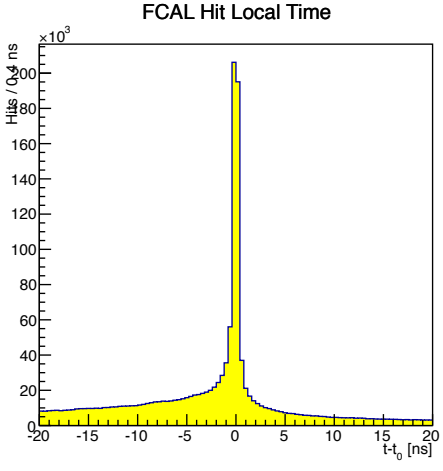

FCAL Number of Hits
×10^3
Events / 5 Hits
0
100
200
300
400
500
0
500
1000
1500
2000
2500
3000
Number of Hits

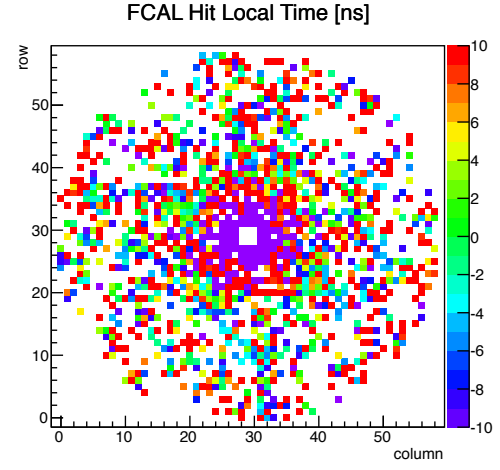

FCAL Hit Total Energy
×10^3
Events / 100 MeV
0
100
200
300
400
500
600
700
800
900
1000
0
1000
2000
3000
4000
5000
6000
7000
8000
9000
10000
Energy [MeV]

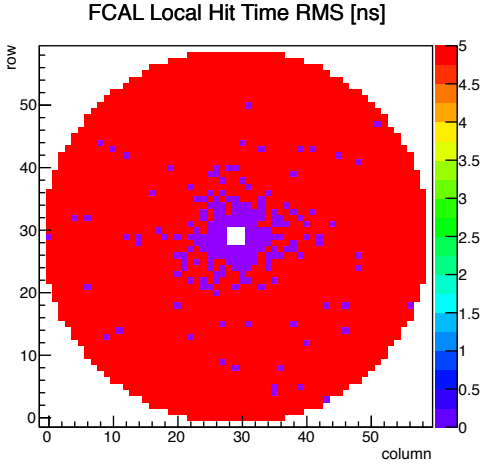

FCAL Hit Occupancy per Event
row
column
0
10
20
30
40
50

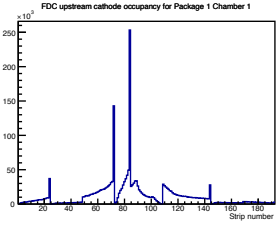

FCAL Hit Average Energy [MeV]
row
column
0
10
20
30
40
50
200
400
600
800
1000
1200
1400

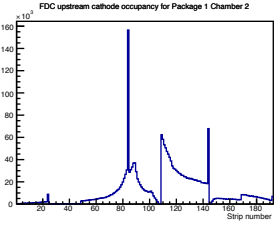

FCAL Hit Energy Weighted Average Time
Events / 4 ns
$t_0$ [ns]

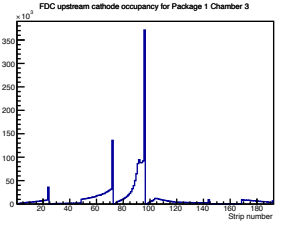

FCAL Hit Local Time
Hits / 0.4 ns
$t-t_0$ [ns]

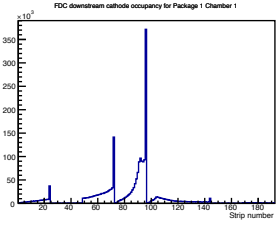

FCAL Hit Local Time [ns]
row
column

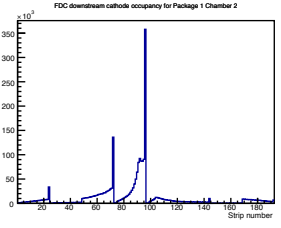

FCAL Local Hit Time RMS [ns]
row
column

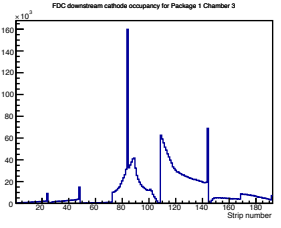

FDC upstream cathode occupancy for Package 1 Chamber 1
Strip number

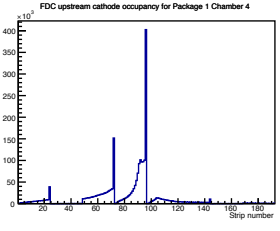

FDC upstream cathode occupancy for Package 1 Chamber 2
Strip number

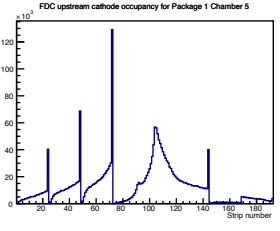

FDC upstream cathode occupancy for Package 1 Chamber 3
Strip number

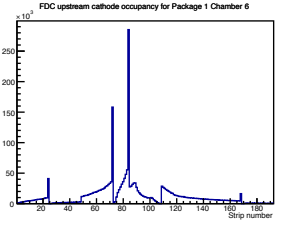

FDC downstream cathode occupancy for Package 1 Chamber 1
Strip number

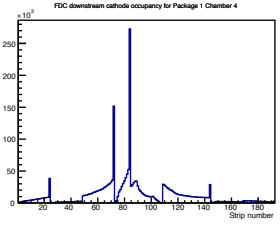

FDC downstream cathode occupancy for Package 1 Chamber 2
Strip number

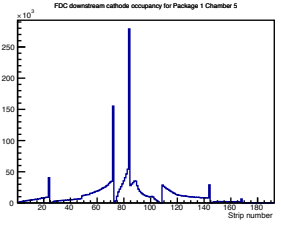

FDC downstream cathode occupancy for Package 1 Chamber 3
Strip number

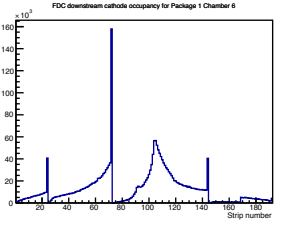

FDC upstream cathode occupancy for Package 1 Chamber 4
Strip number


FDC upstream cathode occupancy for Package 1 Chamber 5
Strip number

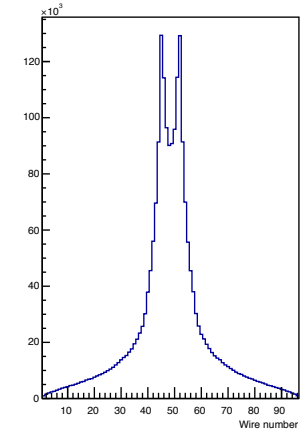

FDC upstream cathode occupancy for Package 1 Chamber 6
Strip number


FDC downstream cathode occupancy for Package 1 Chamber 4
Strip number

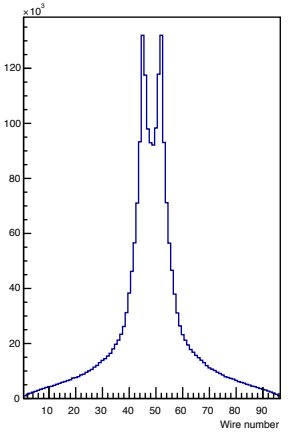

FDC downstream cathode occupancy for Package 1 Chamber 5
Strip number


FDC downstream cathode occupancy for Package 1 Chamber 6
Strip number

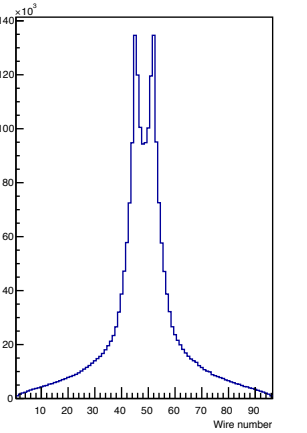
FDC wire occupancy for Package 1 Chamber 1



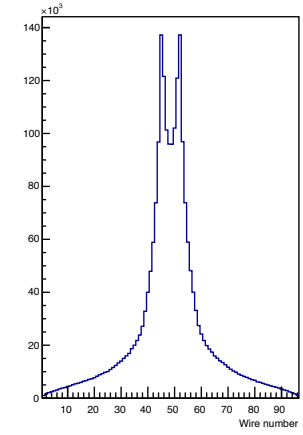

FDC wire occupancy for Package 1 Chamber 2



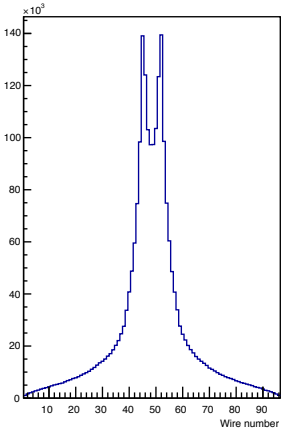

FDC wire occupancy for Package 1 Chamber 3



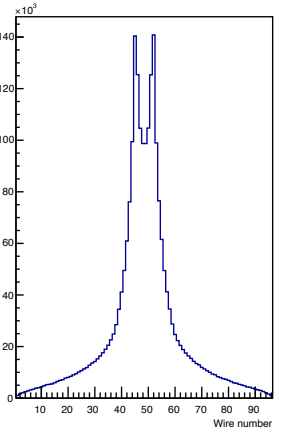

FDC wire occupancy for Package 1 Chamber 4

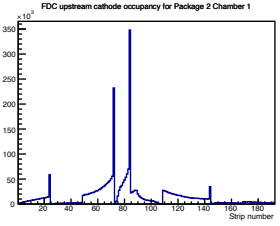


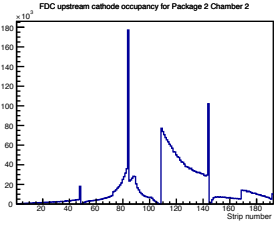

FDC wire occupancy for Package 1 Chamber 5

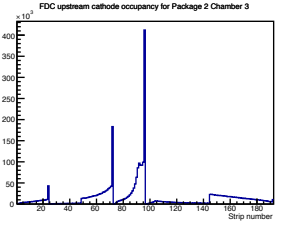


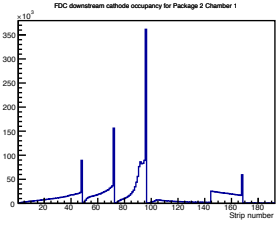

FDC wire occupancy for Package 1 Chamber 6

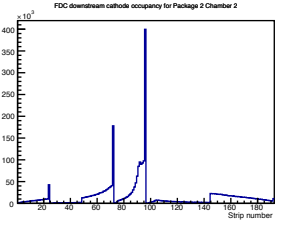


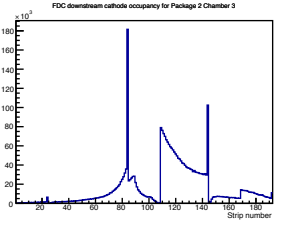

FDC upstream cathode occupancy for Package 2 Chamber 1
Strip number

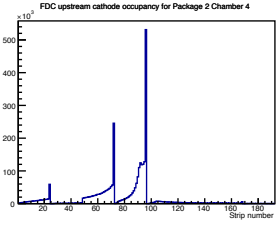

FDC upstream cathode occupancy for Package 2 Chamber 2
Strip number

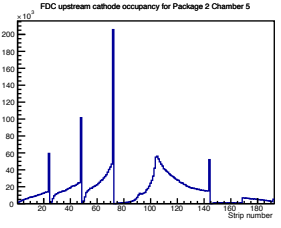

FDC upstream cathode occupancy for Package 2 Chamber 3
Strip number

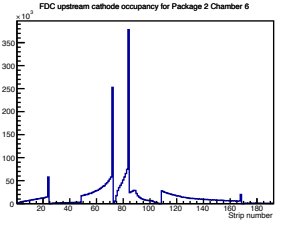

FDC downstream cathode occupancy for Package 2 Chamber 1
Strip number

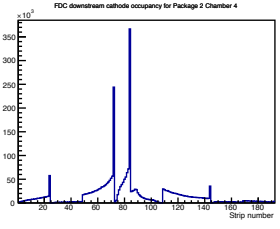

FDC downstream cathode occupancy for Package 2 Chamber 2
Strip number


FDC downstream cathode occupancy for Package 2 Chamber 3
Strip number


FDC upstream cathode occupancy for Package 2 Chamber 4
Strip number


FDC upstream cathode occupancy for Package 2 Chamber 5
Strip number


FDC upstream cathode occupancy for Package 2 Chamber 6
Strip number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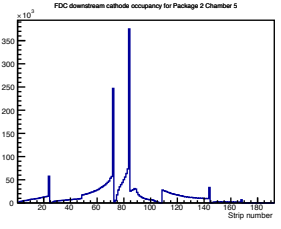
Strip number


FDC downstream cathode occupancy for Package 2 Chamber 5
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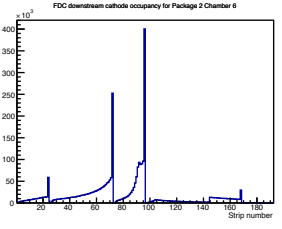
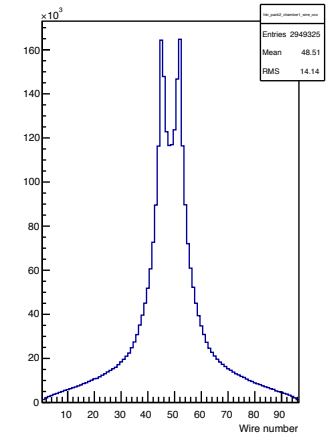
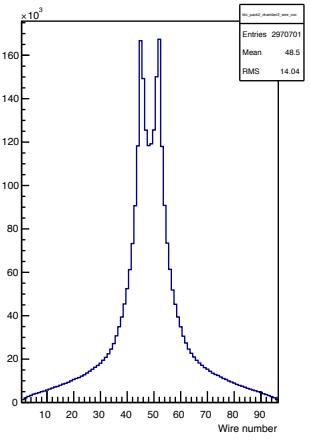

FDC downstream cathode occupancy for Package 2 Chamber 6
Strip number

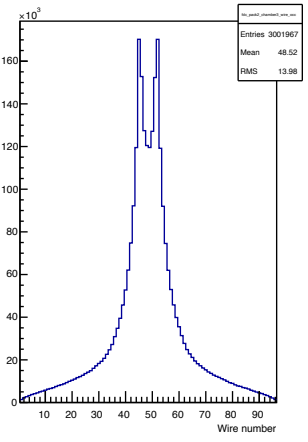
FDC wire occupancy for Package 2 Chamber 1



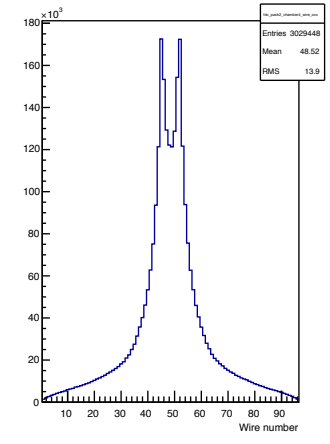

FDC wire occupancy for Package 2 Chamber 2



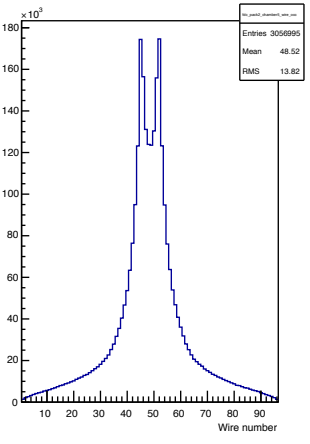

FDC wire occupancy for Package 2 Chamber 3



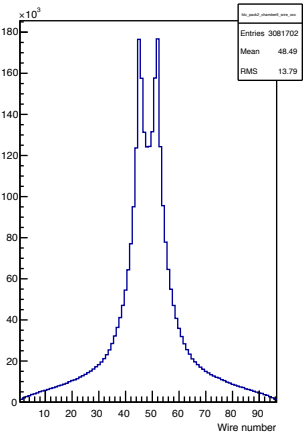

FDC wire occupancy for Package 2 Chamber 4

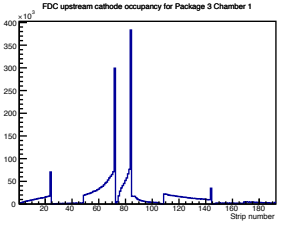


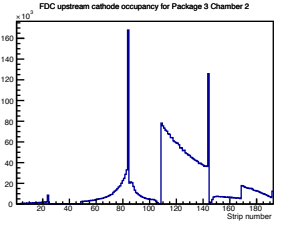

FDC wire occupancy for Package 2 Chamber 5




FDC wire occupancy for Package 2 Chamber 6




FDC upstream cathode occupancy for Package 3 Chamber 1
Strip number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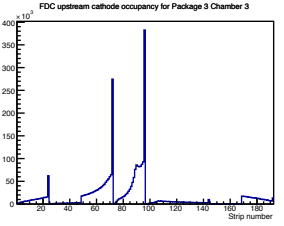
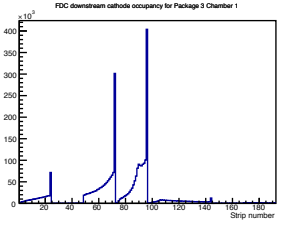
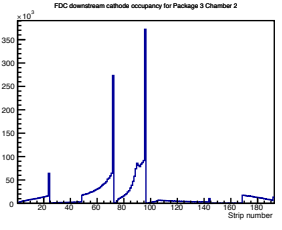

FDC upstream cathode occupancy for Package 3 Chamber 3
Strip number


FDC downstream cathode occupancy for Package 3 Chamber 1
Strip number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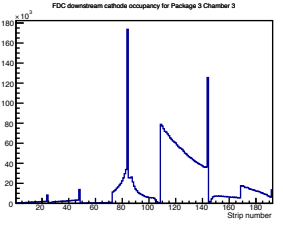
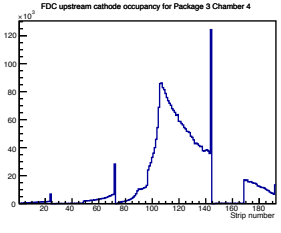
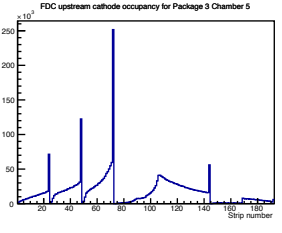
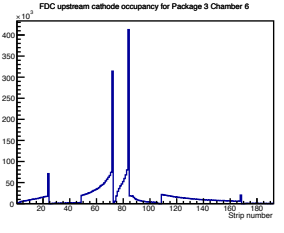
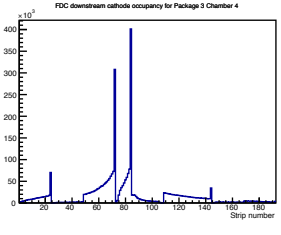

FDC downstream cathode occupancy for Package 3 Chamber 3
Strip number


FDC upstream cathode occupancy for Package 3 Chamber 4
Strip number


FDC upstream cathode occupancy for Package 3 Chamber 5
Strip number


FDC upstream cathode occupancy for Package 3 Chamber 6
Strip number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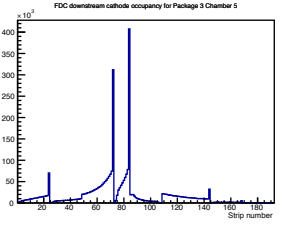
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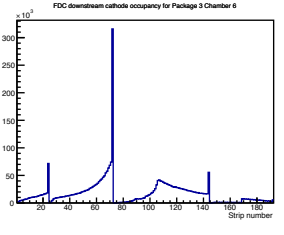
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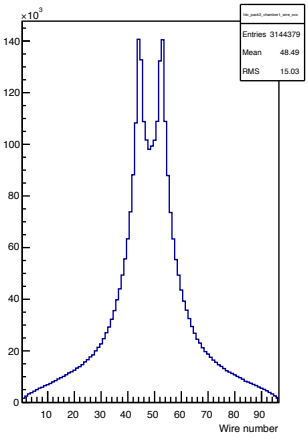
Strip number

FDC wire occupancy for Package 3 Chamber 1

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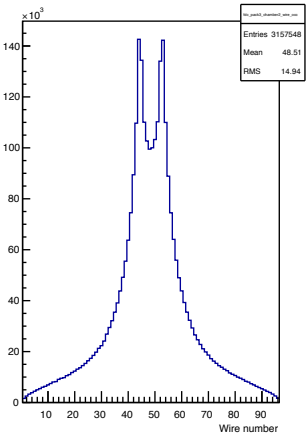
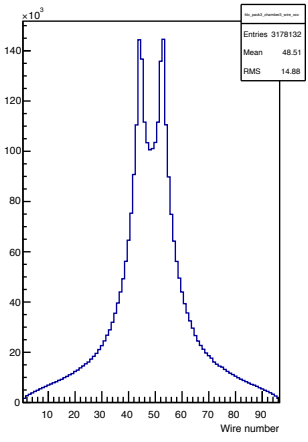
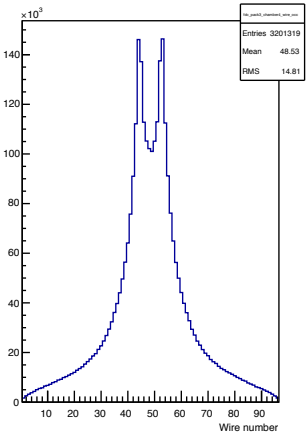


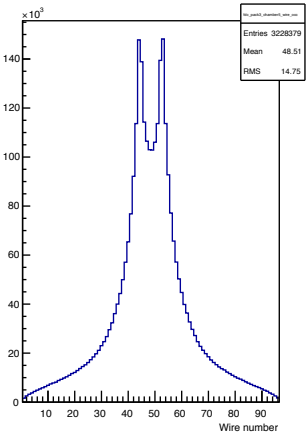

FDC wire occupancy for Package 3 Chamber 3



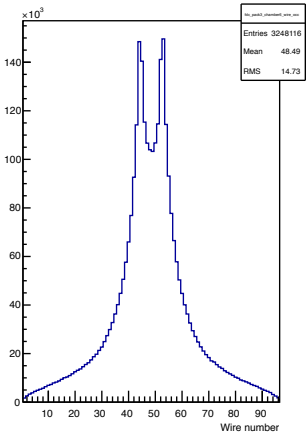

FDC wire occupancy for Package 3 Chamber 4

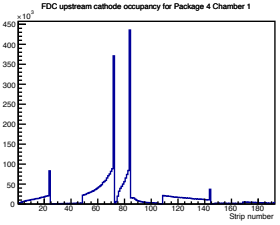


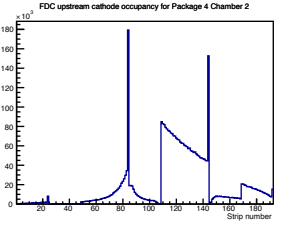

FDC wire occupancy for Package 3 Chamber 5

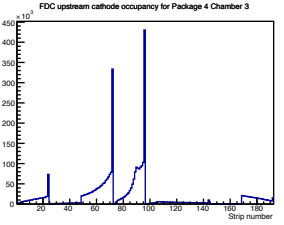


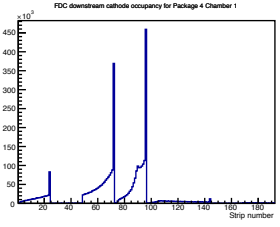

FDC wire occupancy for Package 3 Chamber 6

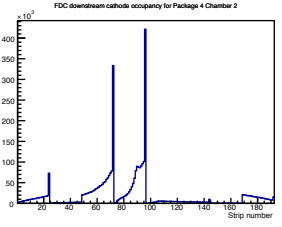



FDC upstream cathode occupancy for Package 4 Chamber 1
Strip number


FDC upstream cathode occupancy for Package 4 Chamber 2
Strip number


FDC upstream cathode occupancy for Package 4 Chamber 3
Strip number


FDC downstream cathode occupancy for Package 4 Chamber 1
Strip number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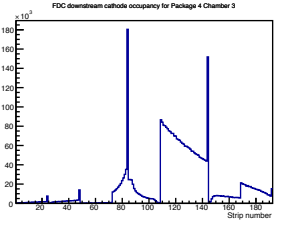
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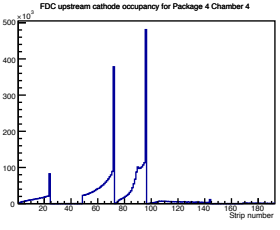
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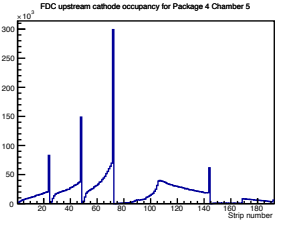
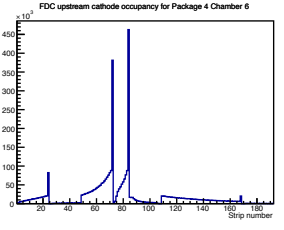
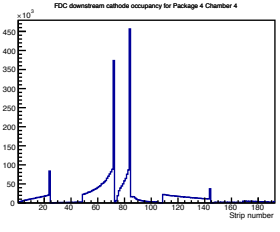
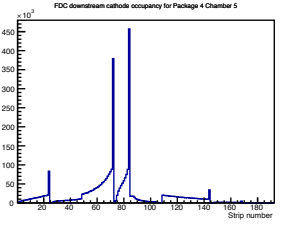
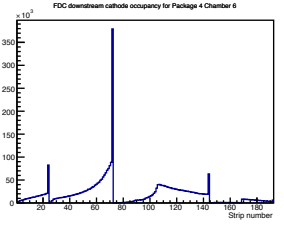
Strip number


FDC upstream cathode occupancy for Package 4 Chamber 5
Strip number

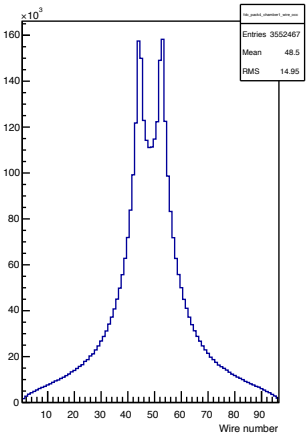

FDC upstream cathode occupancy for Package 4 Chamber 6
Strip number


FDC downstream cathode occupancy for Package 4 Chamber 4
Strip number

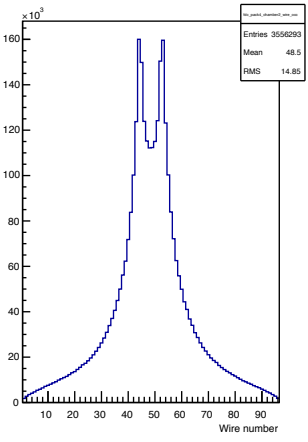

FDC downstream cathode occupancy for Package 4 Chamber 5
Strip number


FDC downstream cathode occupancy for Package 4 Chamber 6
Strip number

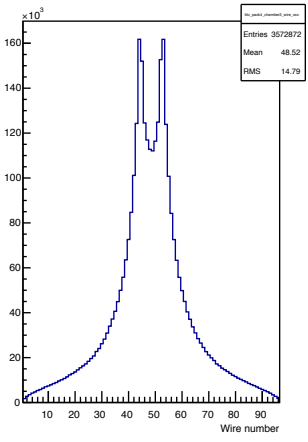
FDC wire occupancy for Package 4 Chamber 1



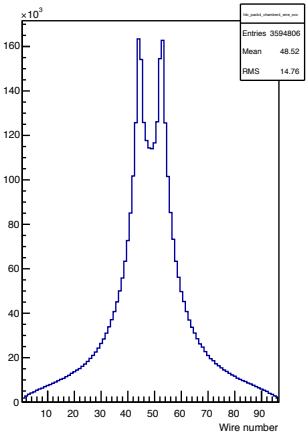

FDC wire occupancy for Package 4 Chamber 2



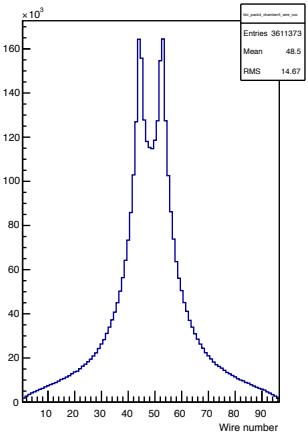

FDC wire occupancy for Package 4 Chamber 3



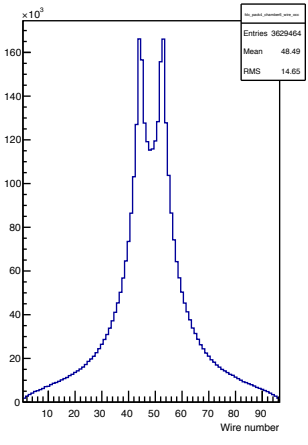

FDC wire occupancy for Package 4 Chamber 4

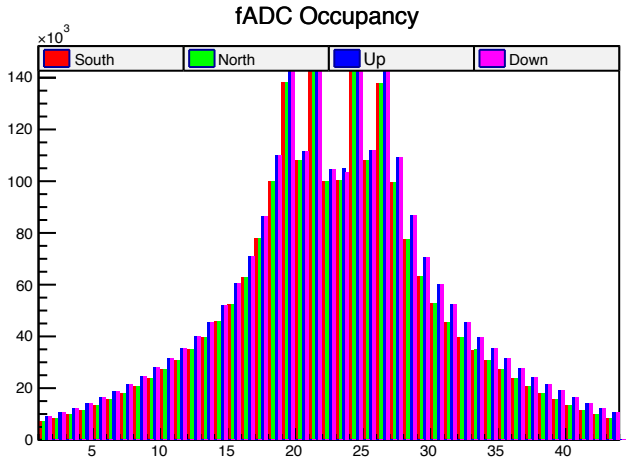


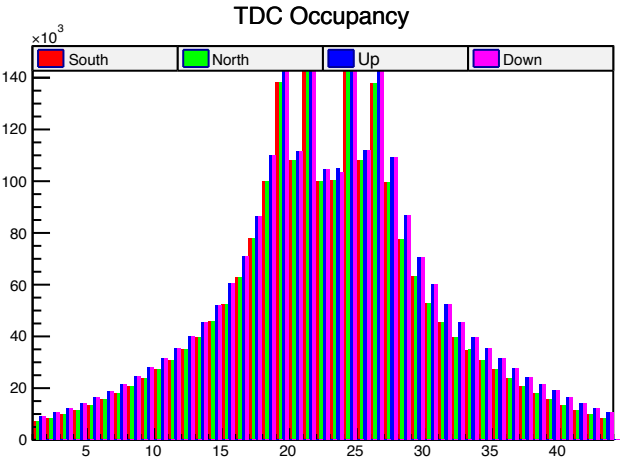

FDC wire occupancy for Package 4 Chamber 5

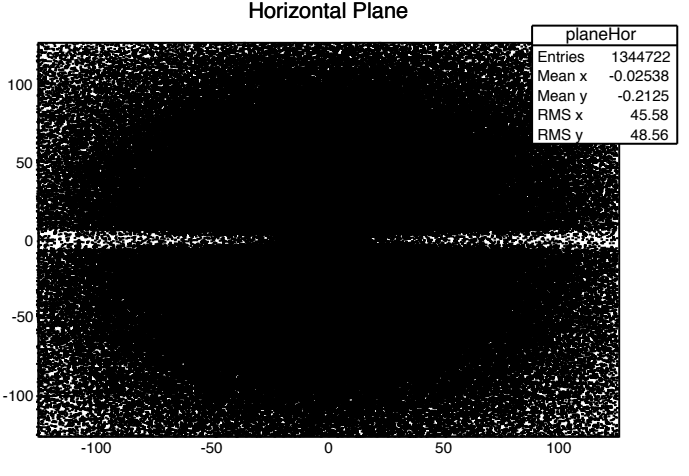


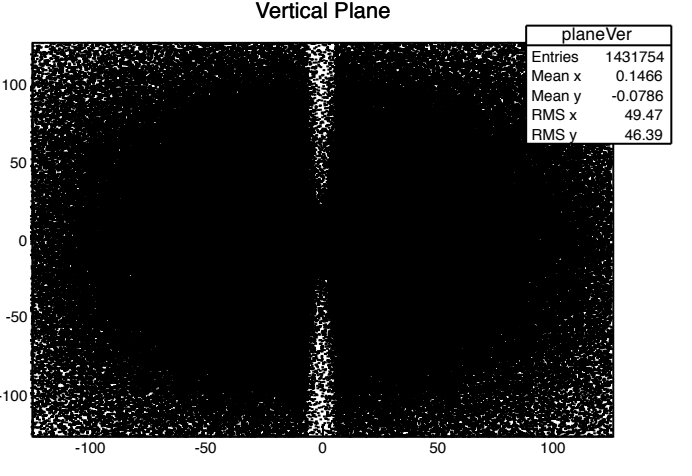

FDC wire occupancy for Package 4 Chamber 6




fADC Occupancy
×10^3
South
North
Up
Down
140
120
100
80
60
40
20
0
5
10
15
20
25
30
35
40


TDC Occupancy
×10^3
South
North
Up
Down
140
120
100
80
60
40
20
0
5
10
15
20
25
30
35
40


Horizontal Plane
planeHor
Entries 1344722
Mean x -0.02538
Mean y -0.2125
RMS x 45.58
RMS y 48.56
100
50
0
-50
-100
-100
-50
0
50
100


Vertical Plane
planeVer
Entries 1431754
Mean x 0.1466
Mean y -0.0786
RMS x 49.47
RMS y 46.39
100
50
0
-50
-100
-100
-50
0
50
100