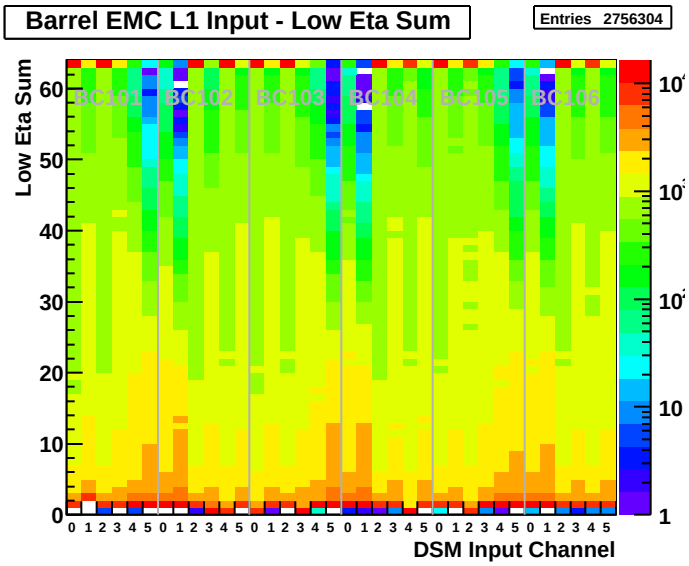
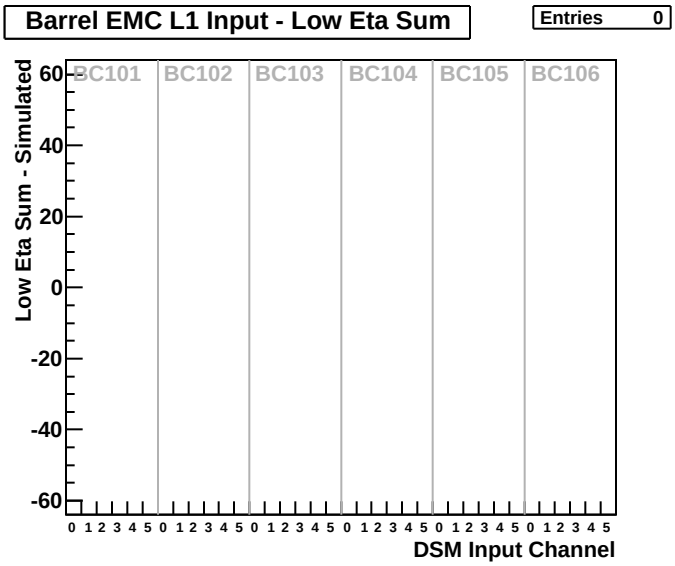
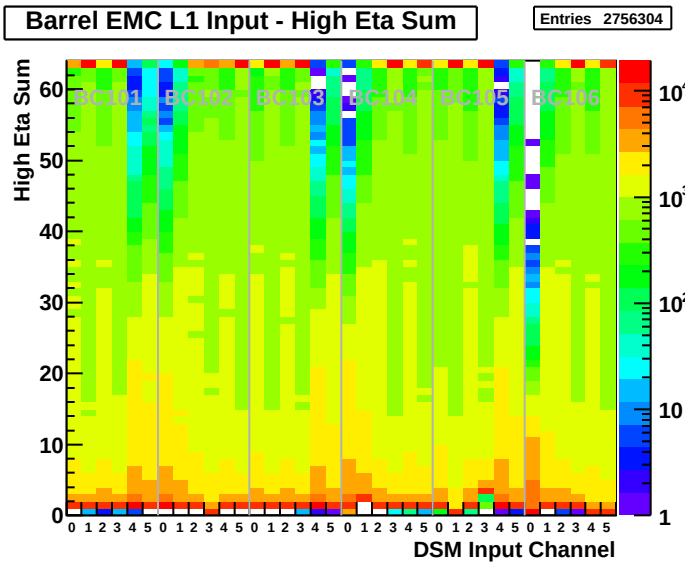
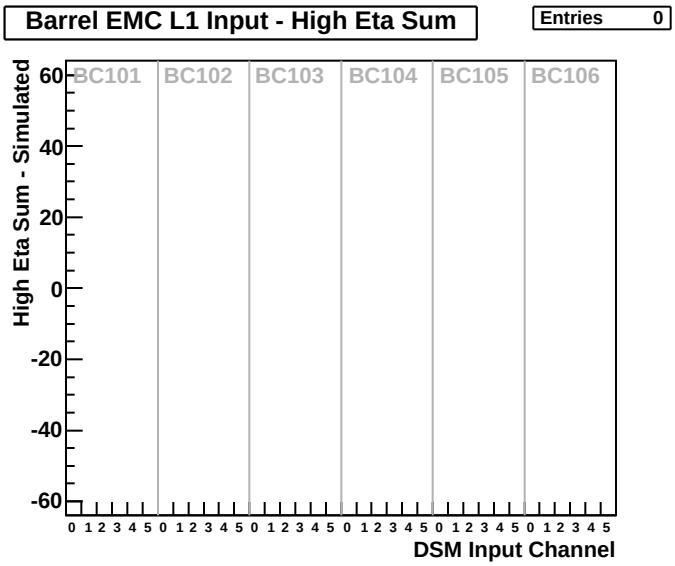
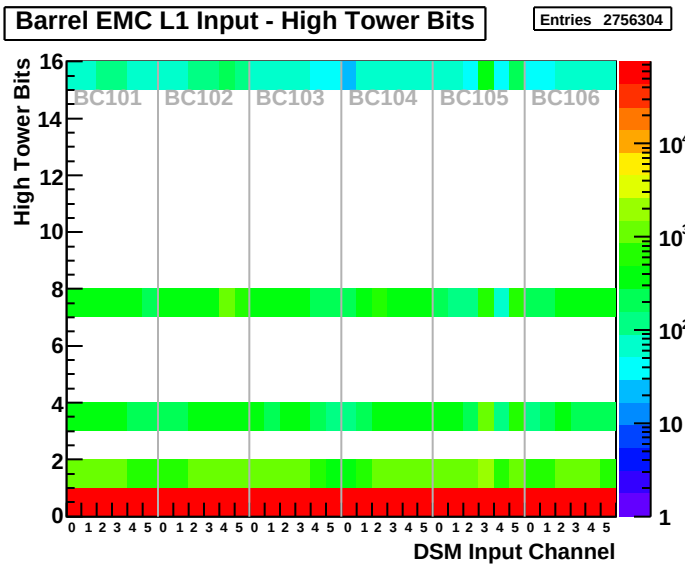
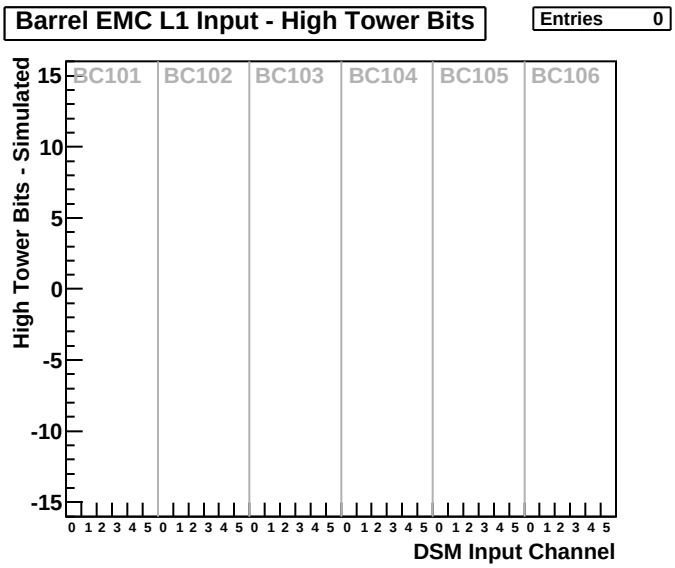

Barrel EMC L1 Input - Low Eta Sum
Entries 2756304
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

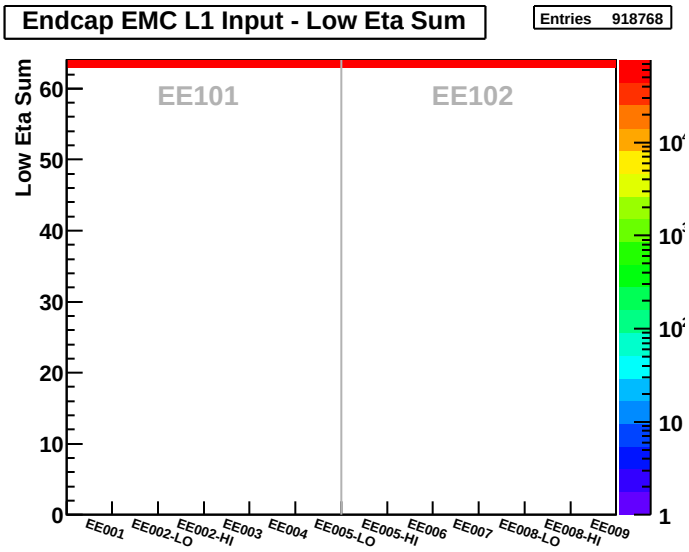

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

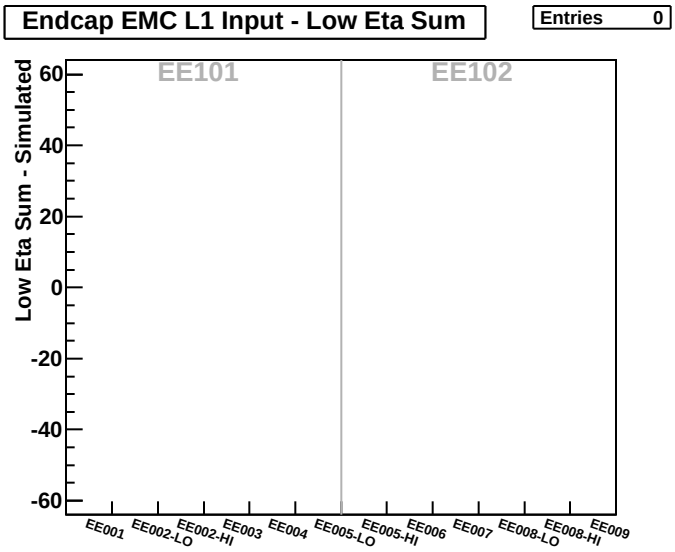

Barrel EMC L1 Input - High Eta Sum
Entries 2756304
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

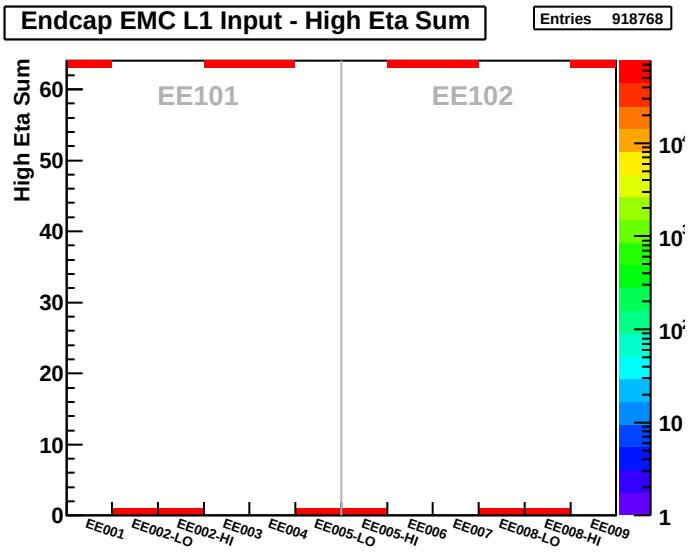

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

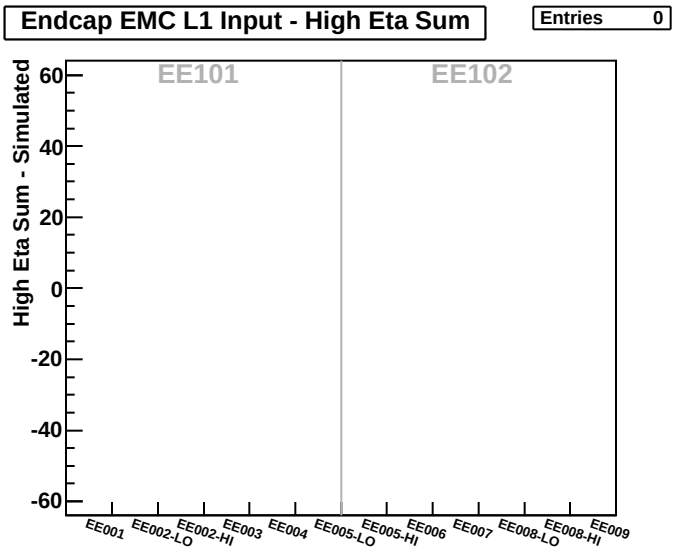

Barrel EMC L1 Input - High Tower Bits
Entries 2756304
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

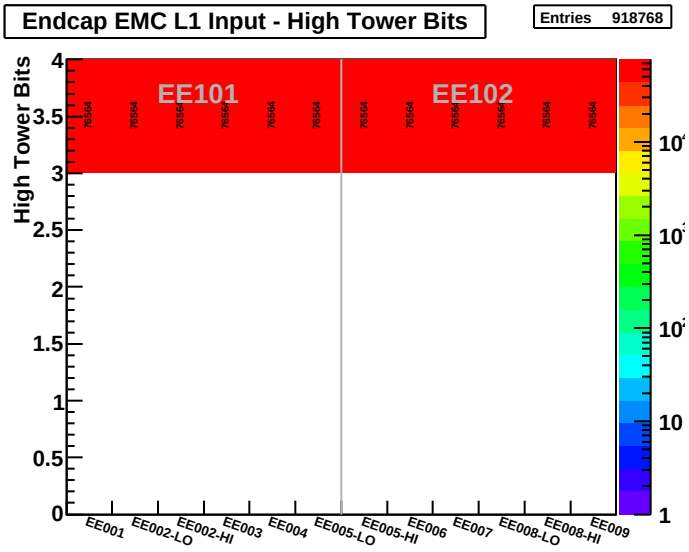

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

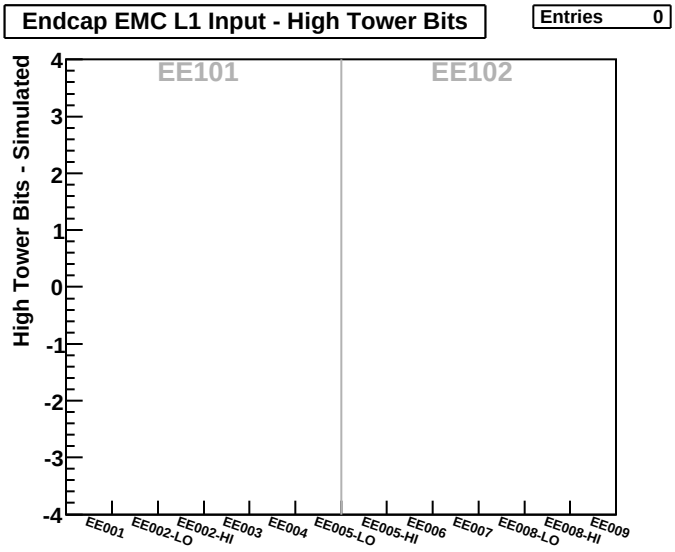

Endcap EMC L1 Input - Low Eta Sum
Entries 918768
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

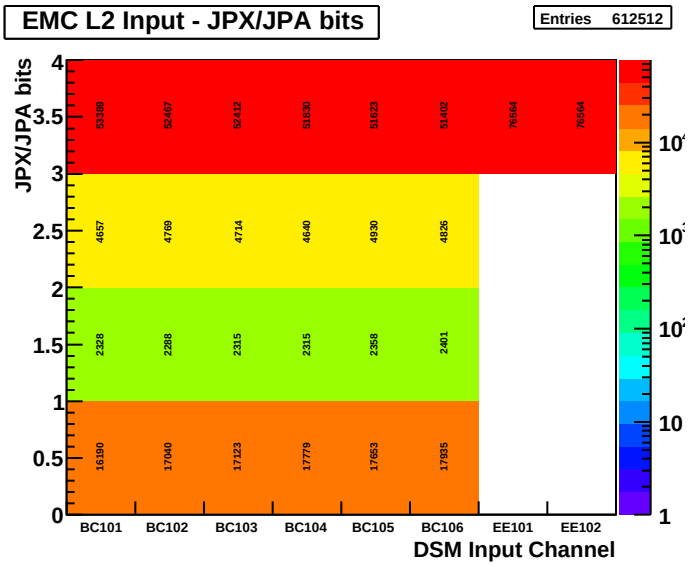

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

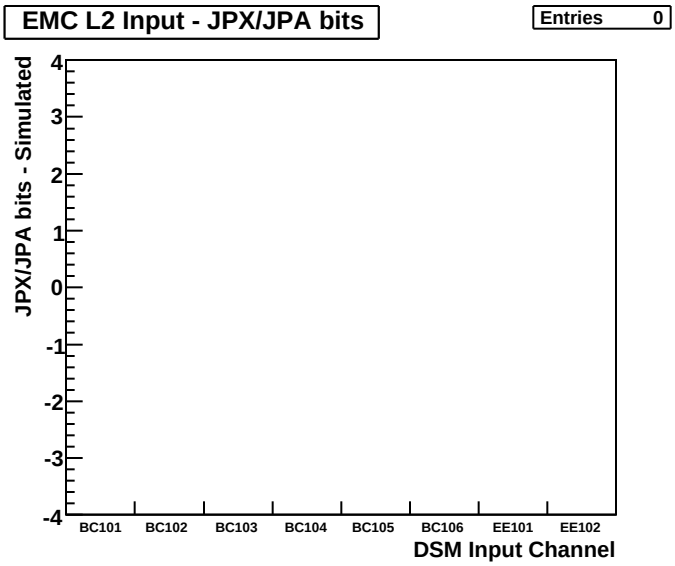

Endcap EMC L1 Input - High Eta Sum
Entries 918768
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

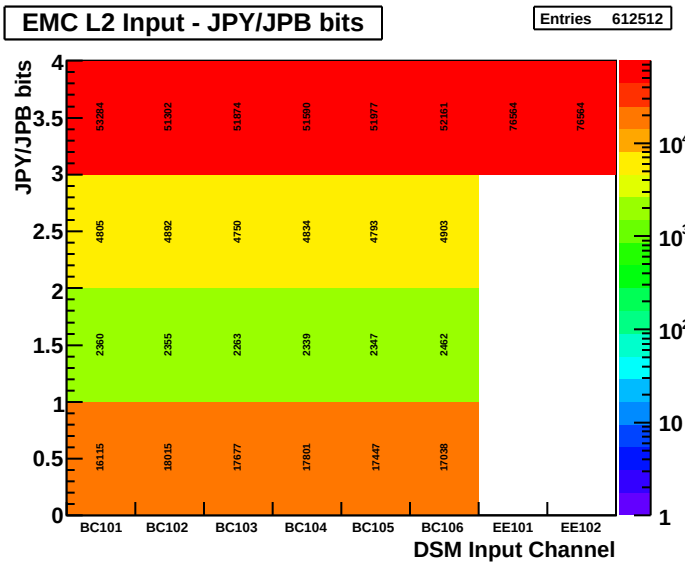

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

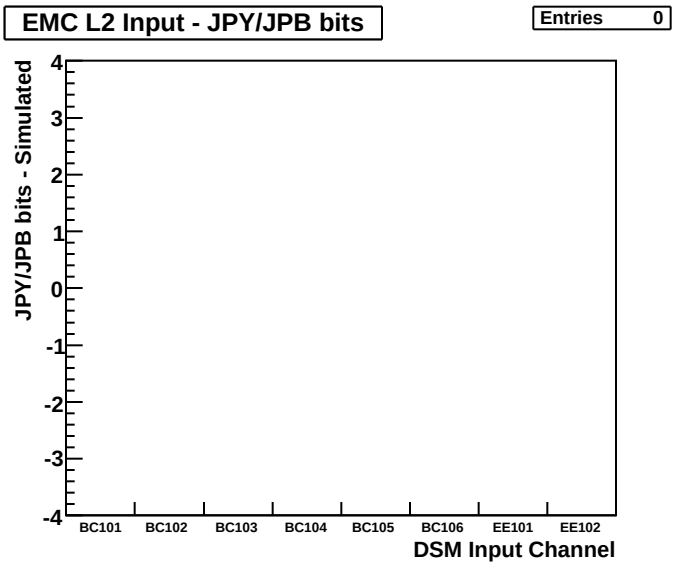

Endcap EMC L1 Input - High Tower Bits
Entries 918768
High Tower Bits
EE101
EE102
76564
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

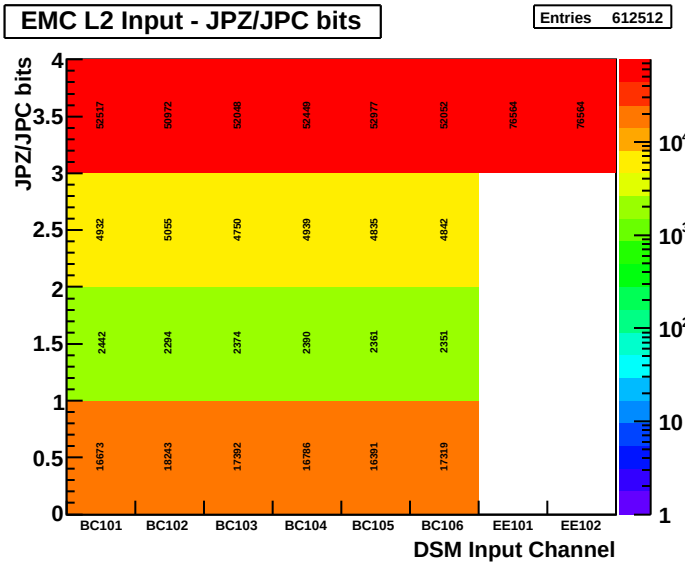

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

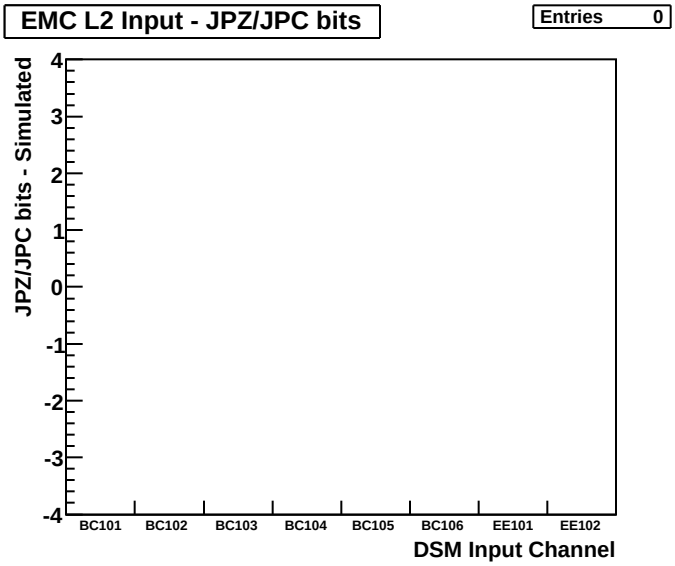

EMC L2 Input - JPX/JPA bits
Entries 612512
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
53389 52467 52412 51830 51623 51402 76564 76564
4657 4769 4714 4640 4930 4826
2328 2288 2315 2315 2358 2401
16190 17040 17123 17779 17653 17935

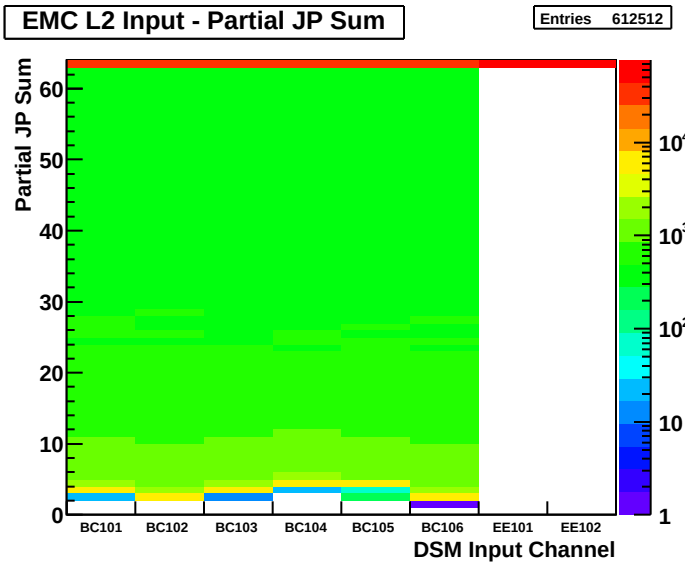

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

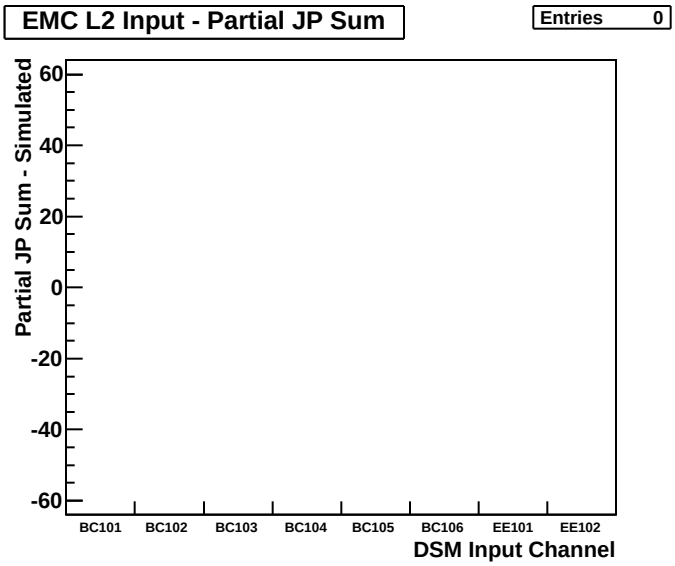

EMC L2 Input - JPY/JPB bits
Entries 612512
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
53284 51302 51874 51590 51977 52161 76564 76564
4805 4892 4750 4834 4793 4903
2360 2355 2363 2339 2347 2462
16115 18015 17677 17801 17447 17038

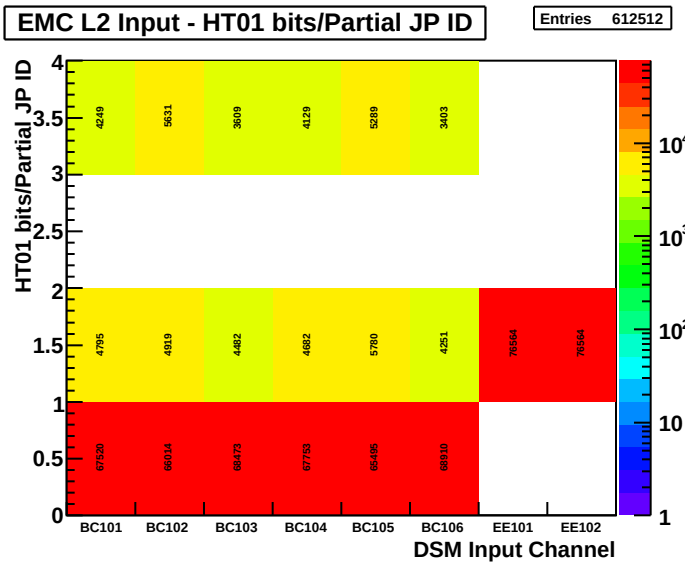

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

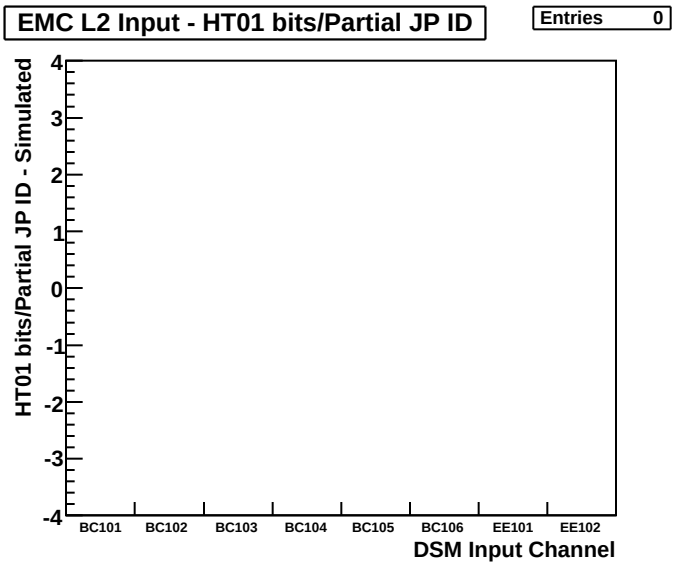

EMC L2 Input - JPZ/JPC bits
Entries 612512
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
52517 50972 52048 52449 52977 52052 76564 76564
4932 5055 4750 4939 4835 4842
2442 2294 2374 2390 2361 2351
16673 18243 17392 16786 16391 17319

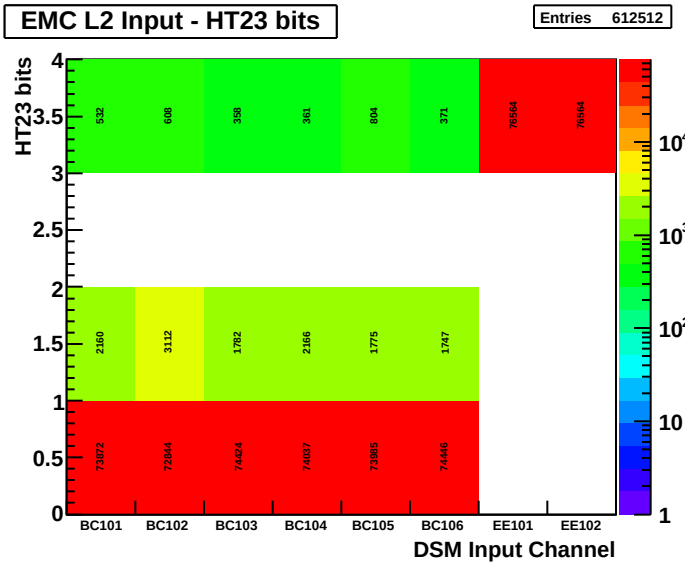

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

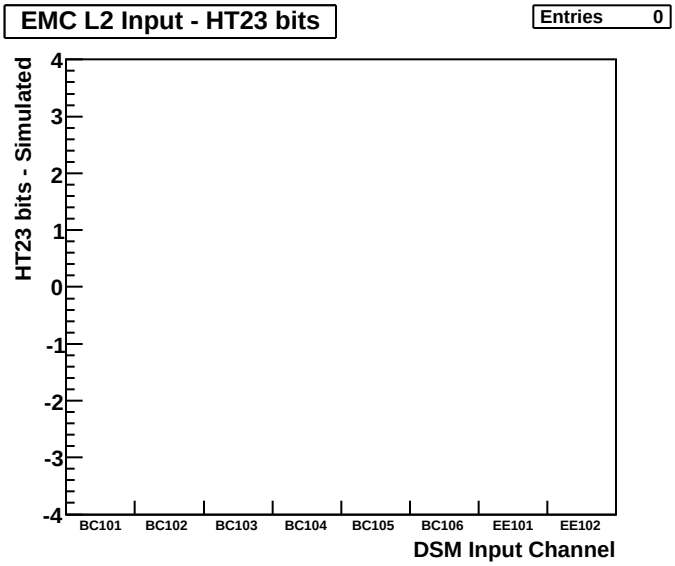

EMC L2 Input - Partial JP Sum
Entries 612512
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

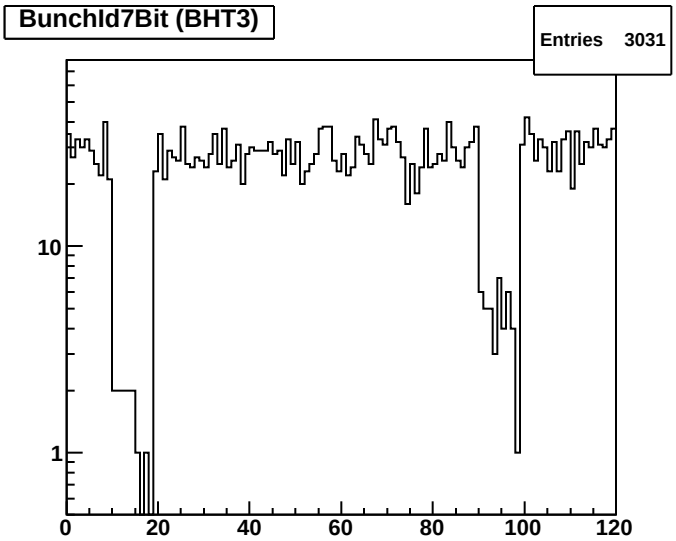

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

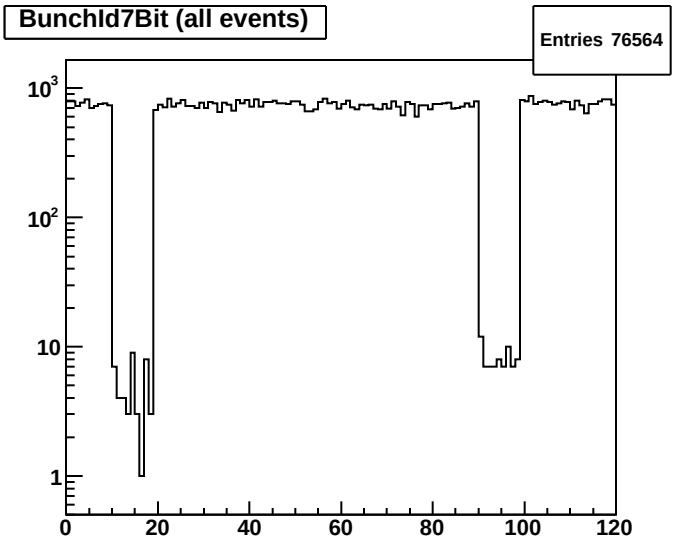

EMC L2 Input - HT01 bits/Partial JP ID
Entries 612512
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

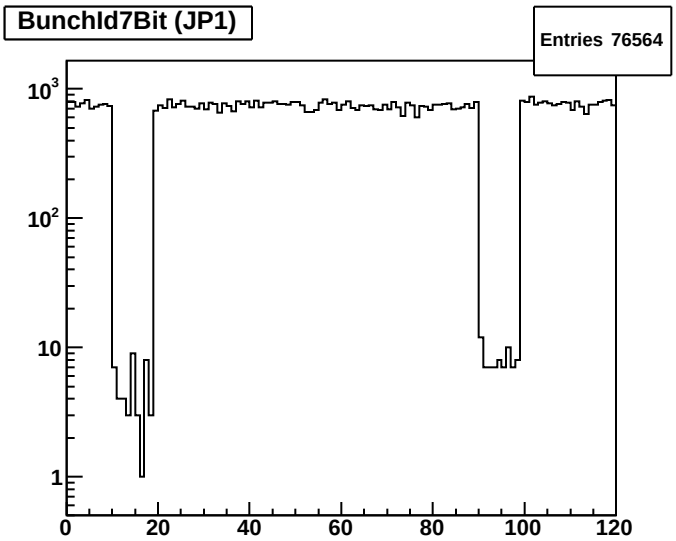

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

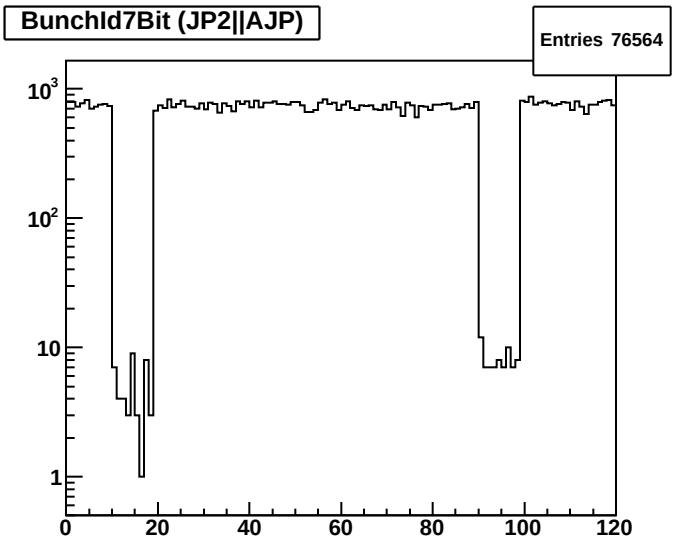

EMC L2 Input - HT23 bits
Entries 612512
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

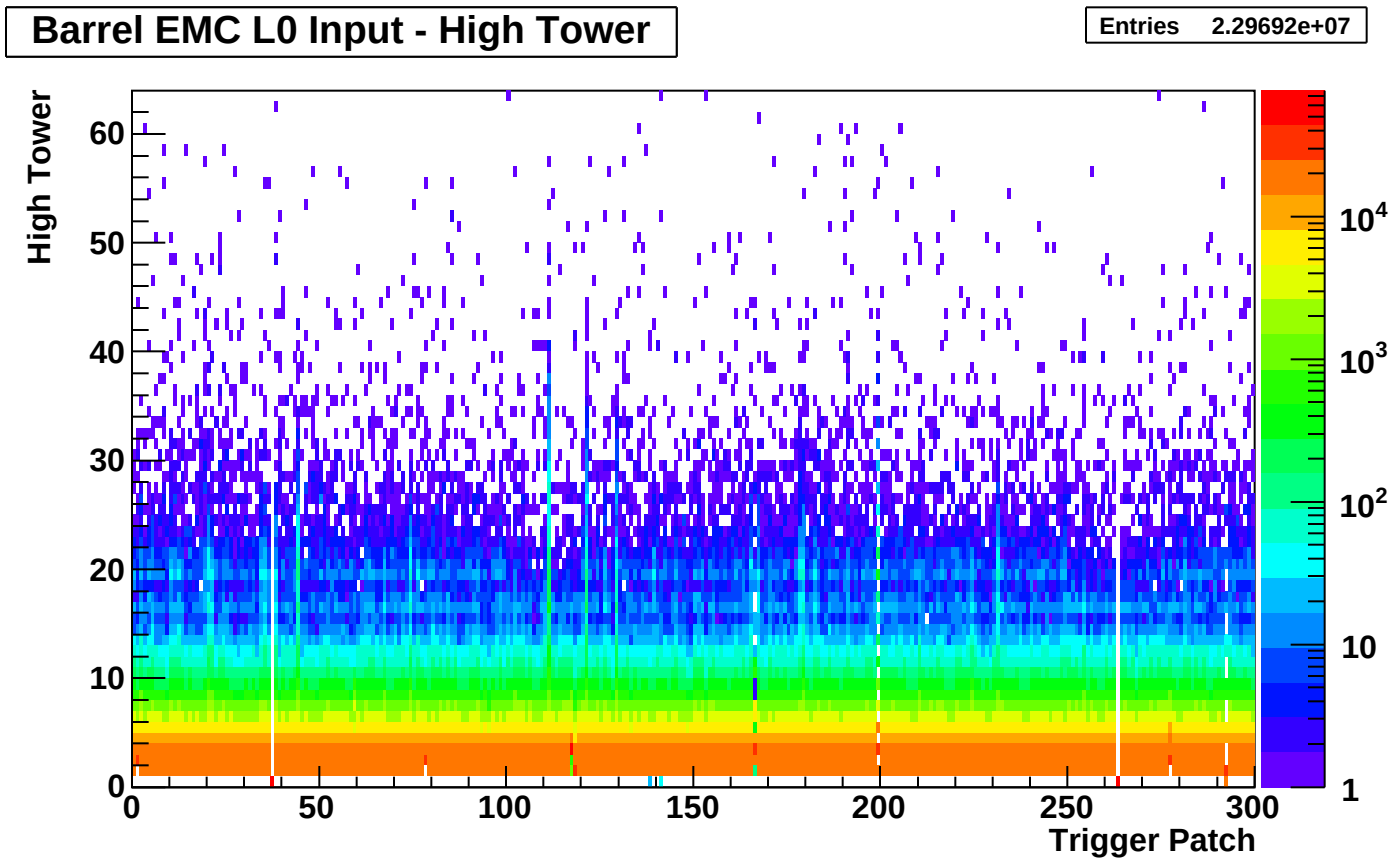

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

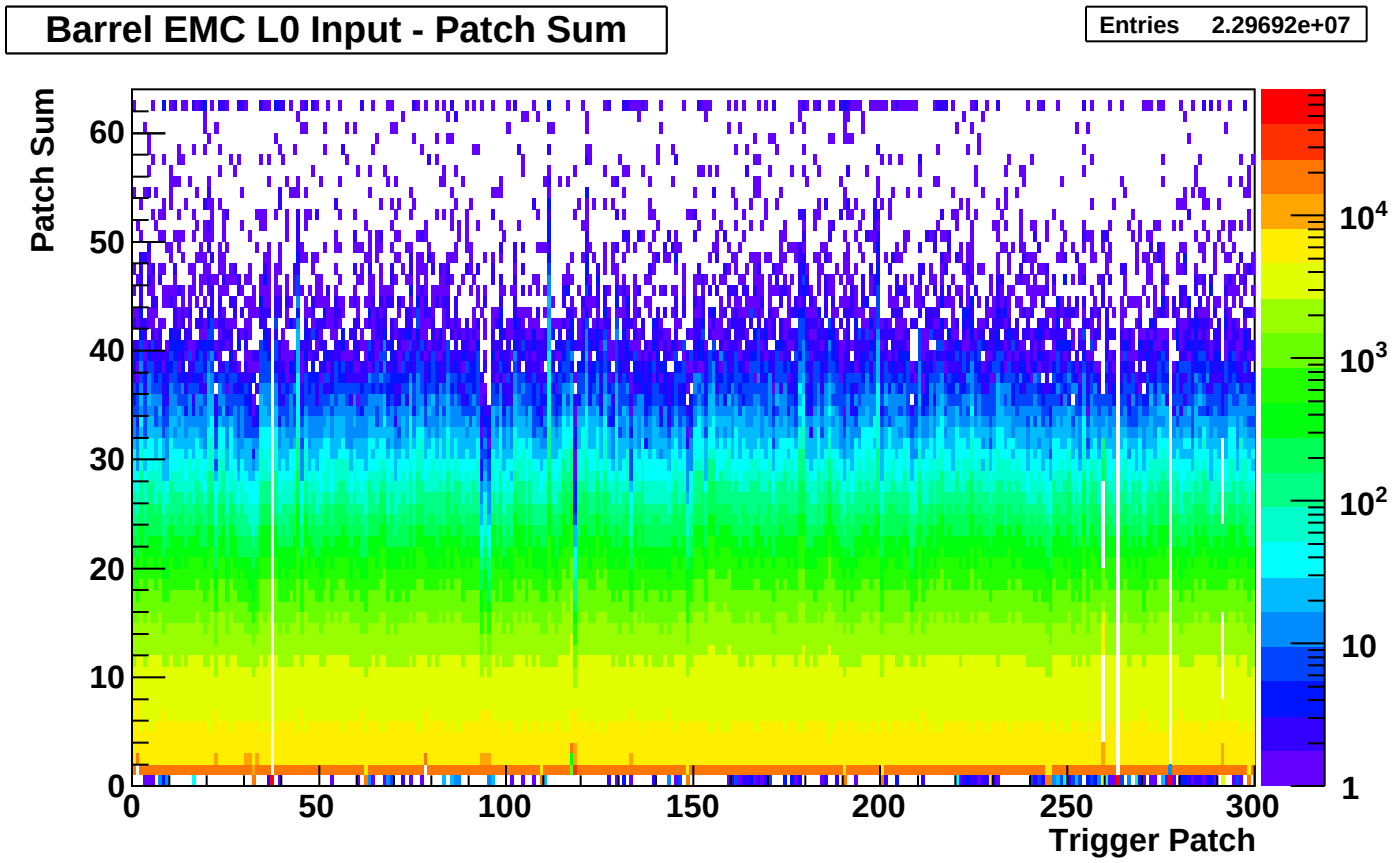

BunchId7Bit (BHT3)
Entries 3031
10
1
0
20
40
60
80
100
120

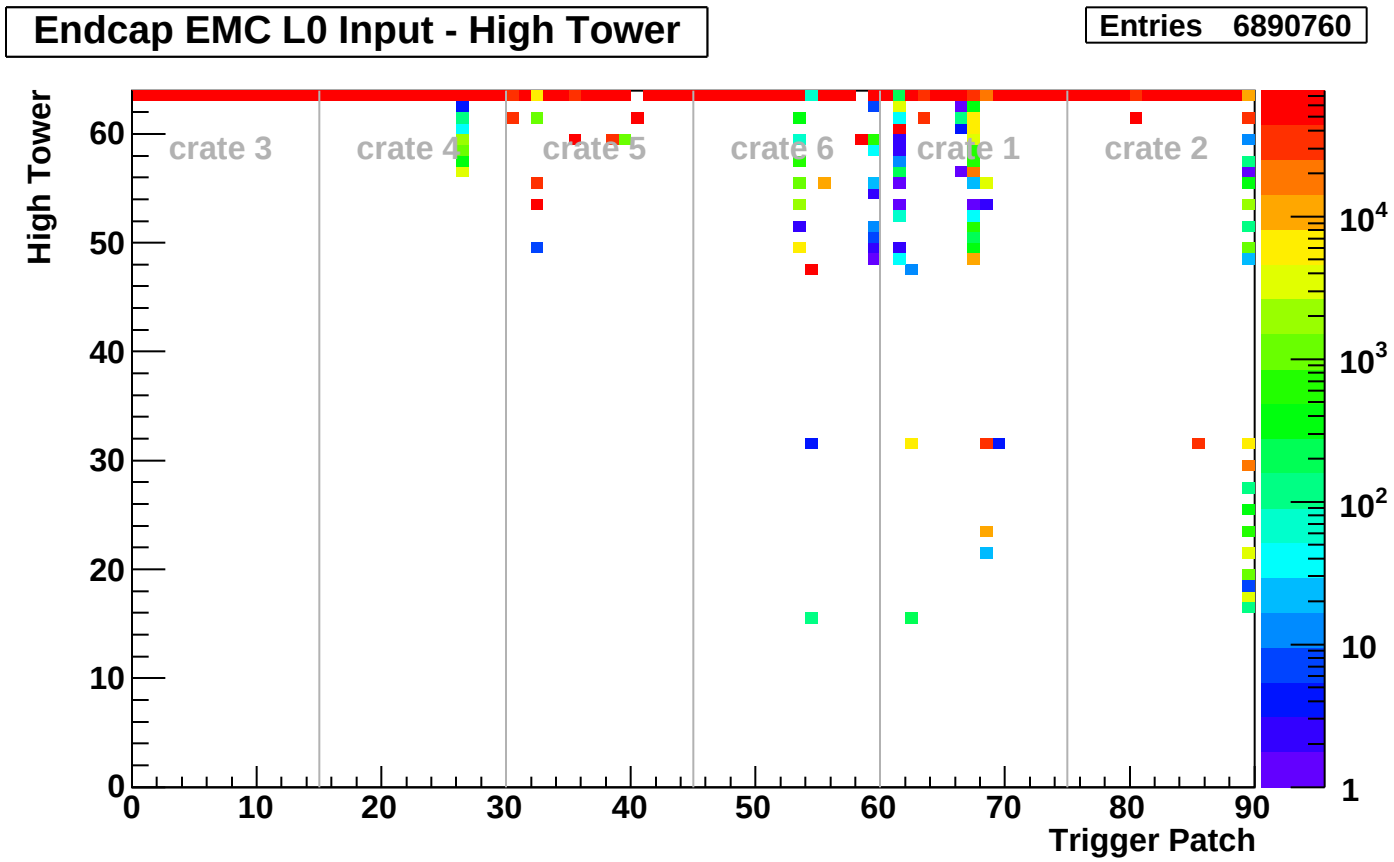

BunchId7Bit (all events)
Entries 76564
10^3
10^2
10
1
0
20
40
60
80
100
120

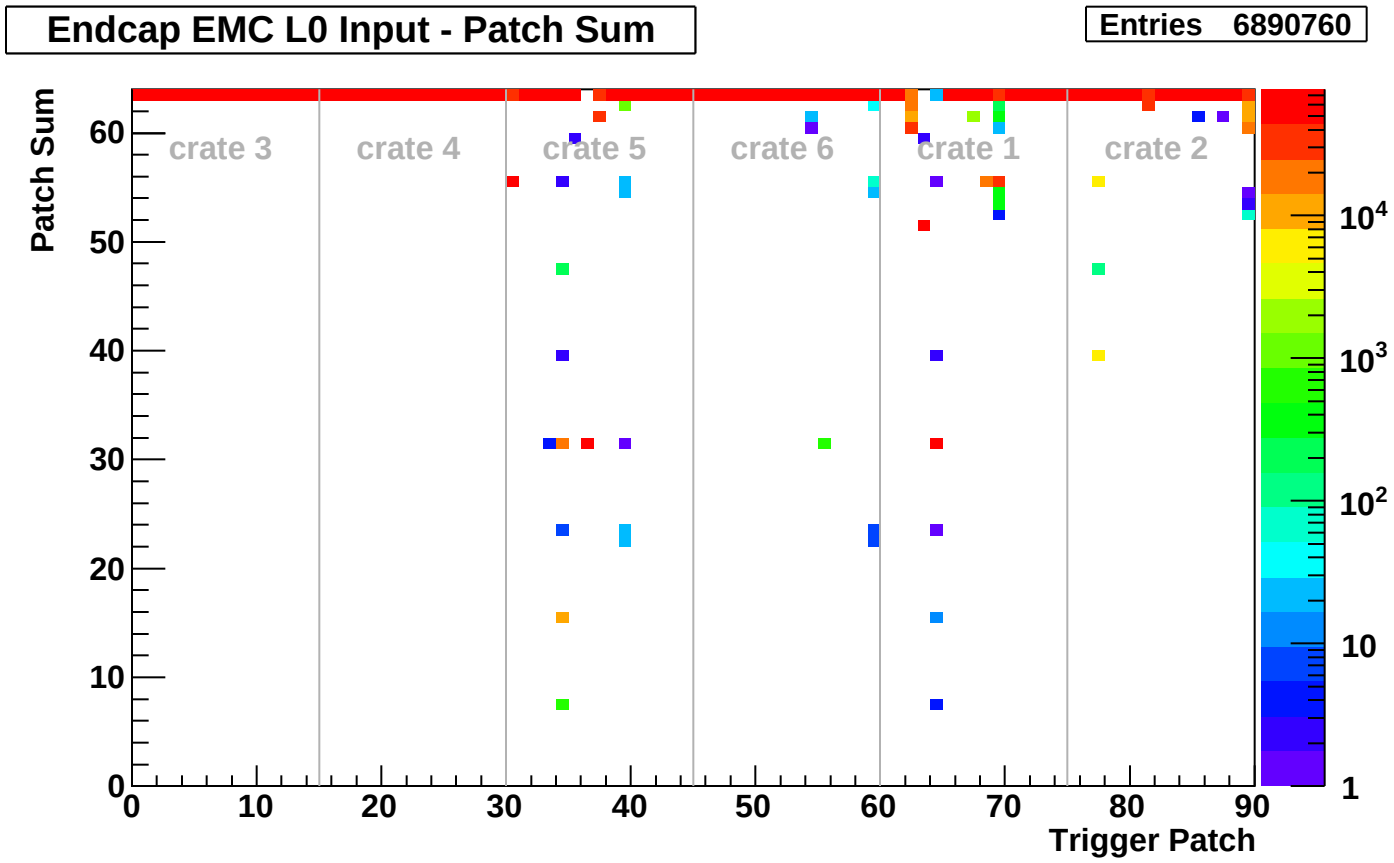

BunchId7Bit (JP1)
Entries 76564
10^3
10^2
10
1
0
20
40
60
80
100
120

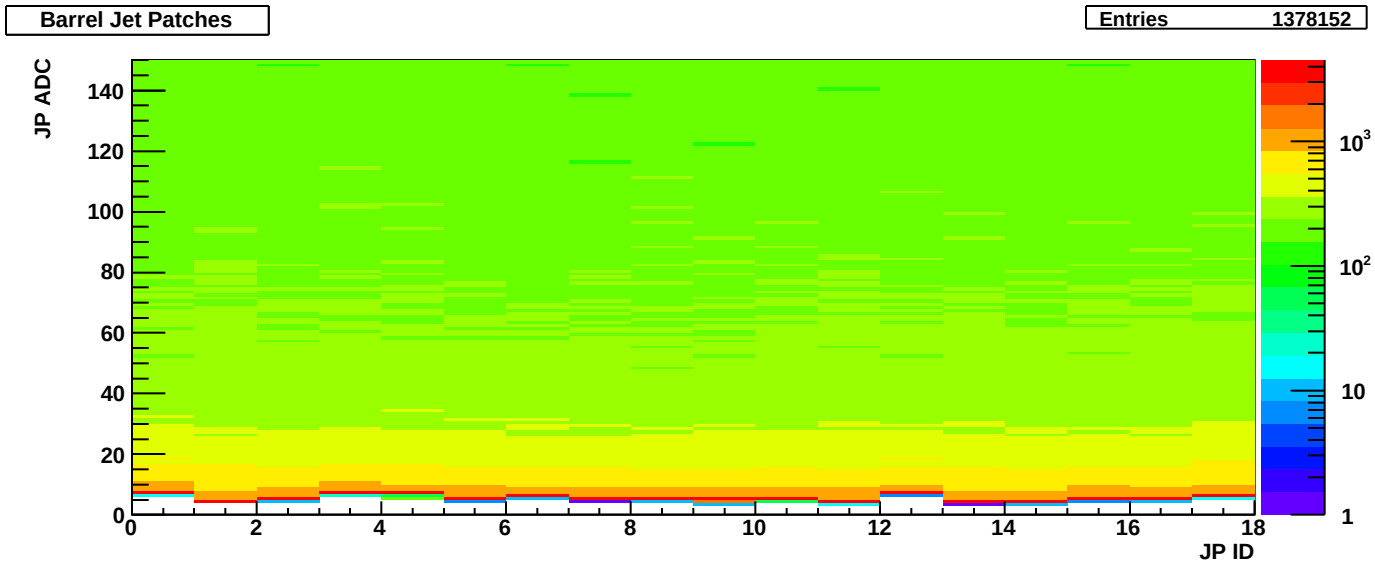

BunchId7Bit (JP2||AJP)
Entries 76564
10^3
10^2
10
1
0
20
40
60
80
100
120

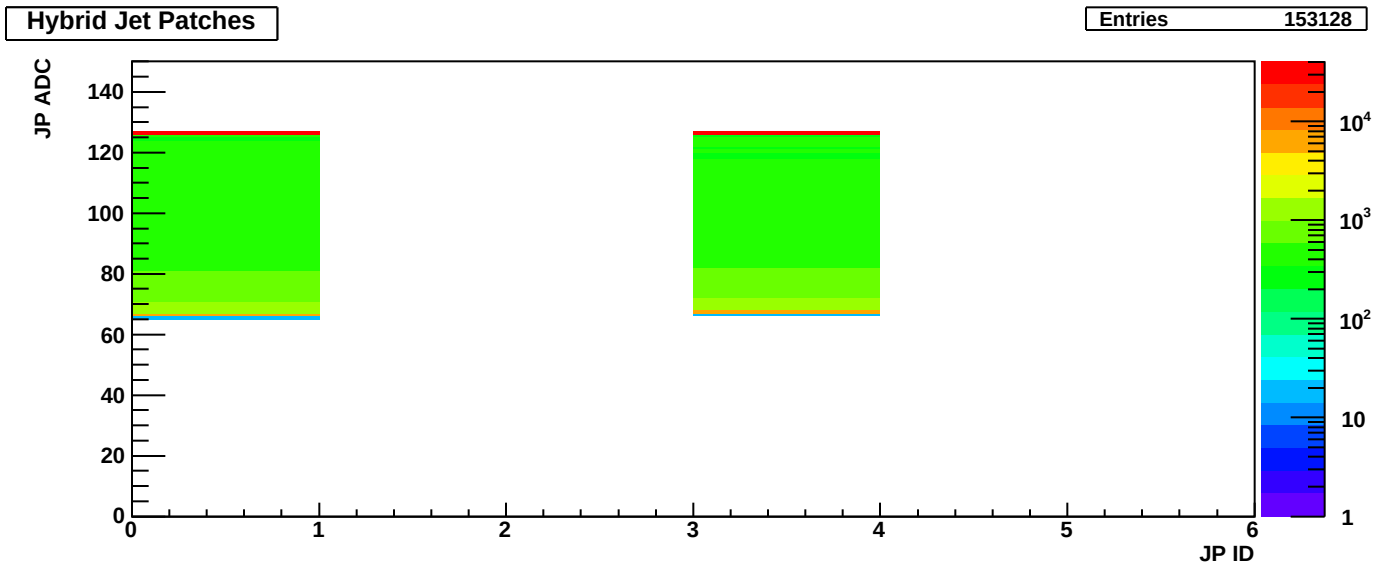

Barrel EMC L0 Input - High Tower
Entries 2.29692e+07
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4

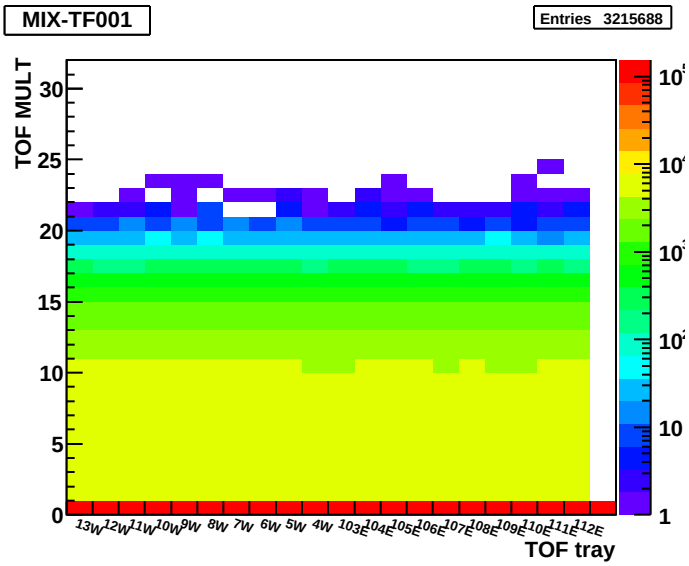

Barrel EMC L0 Input - Patch Sum
Entries 2.29692e+07
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4

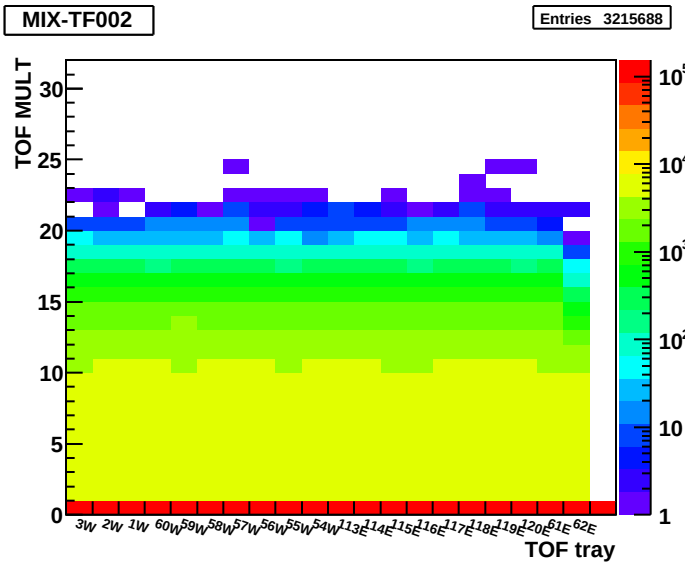

Endcap EMC L0 Input - High Tower
Entries 6890760
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

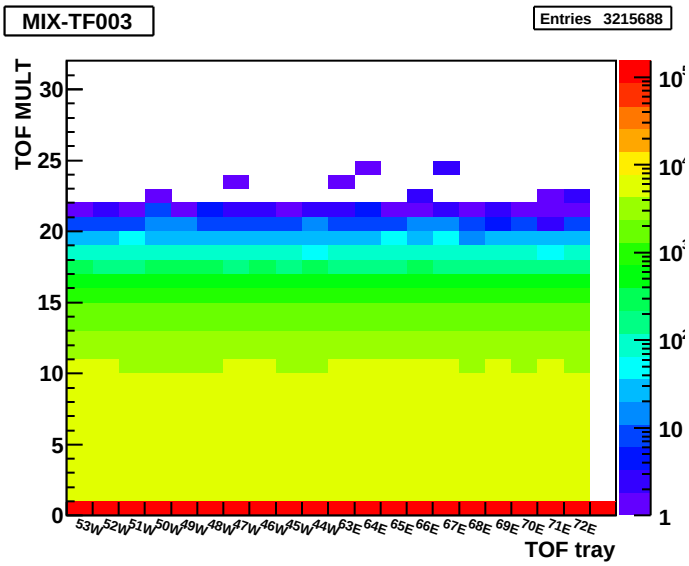

Endcap EMC L0 Input - Patch Sum
Entries 6890760
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

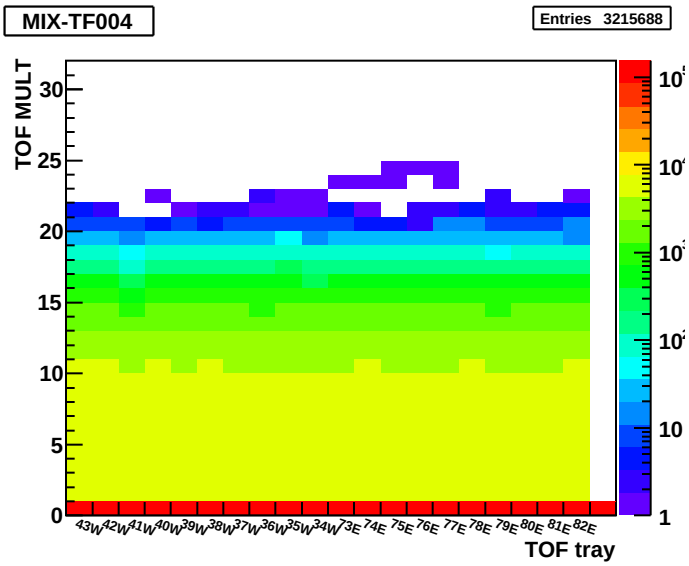

Barrel Jet Patches
Entries 1378152
JP ADC
JP ID

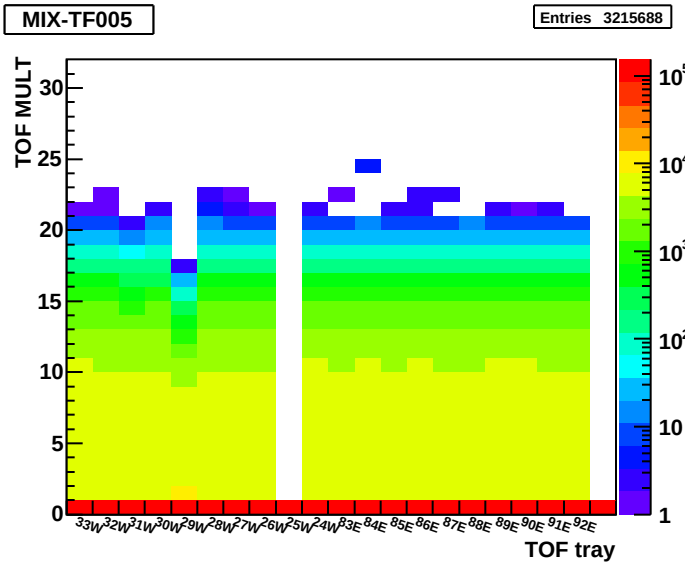

Hybrid Jet Patches
Entries 153128
JP ADC
JP ID

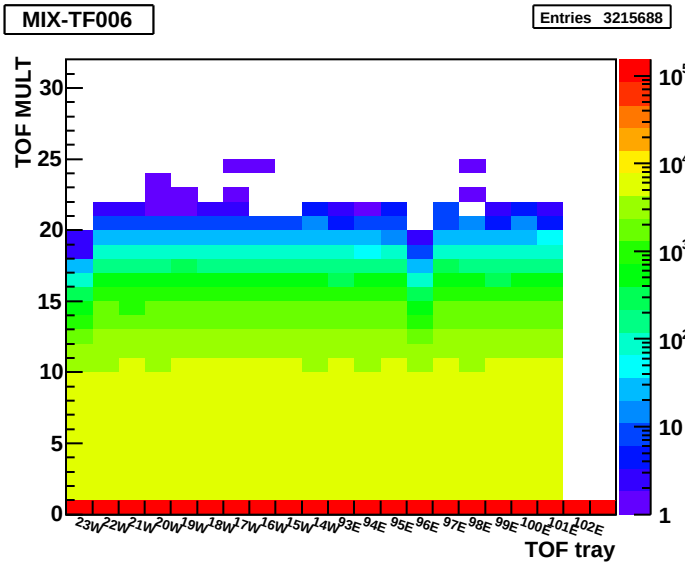

MIX-TF001
Entries 3215688
TOF MULT
TOF tray

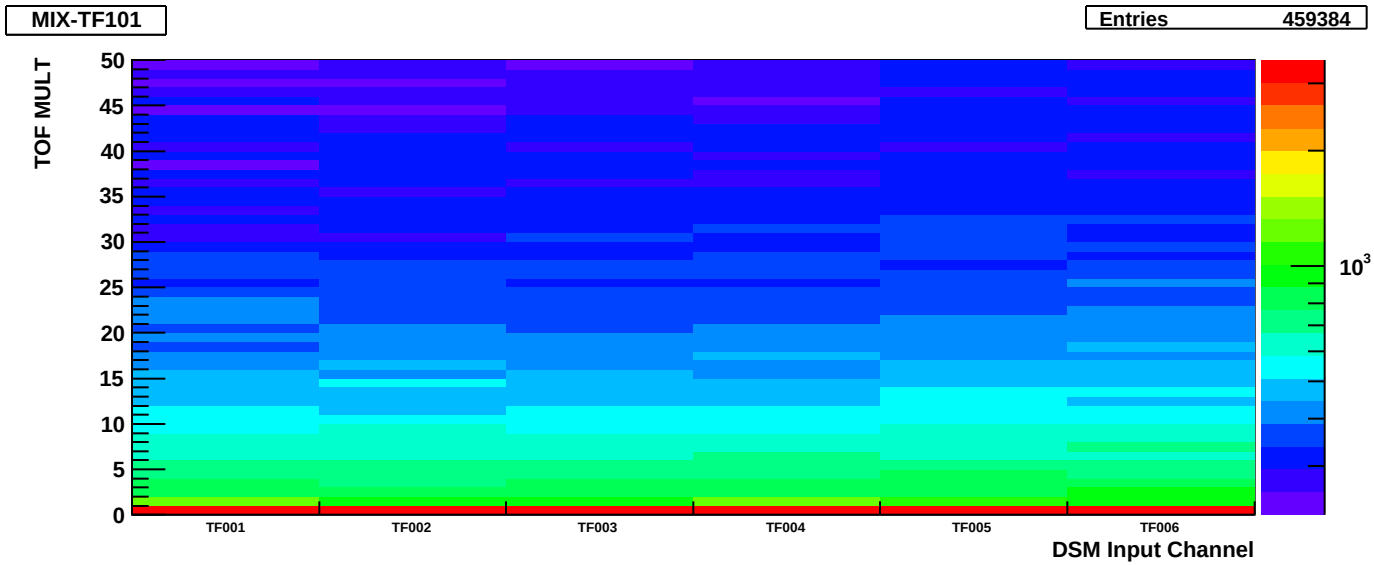

MIX-TF002
Entries 3215688
TOF MULT
TOF tray

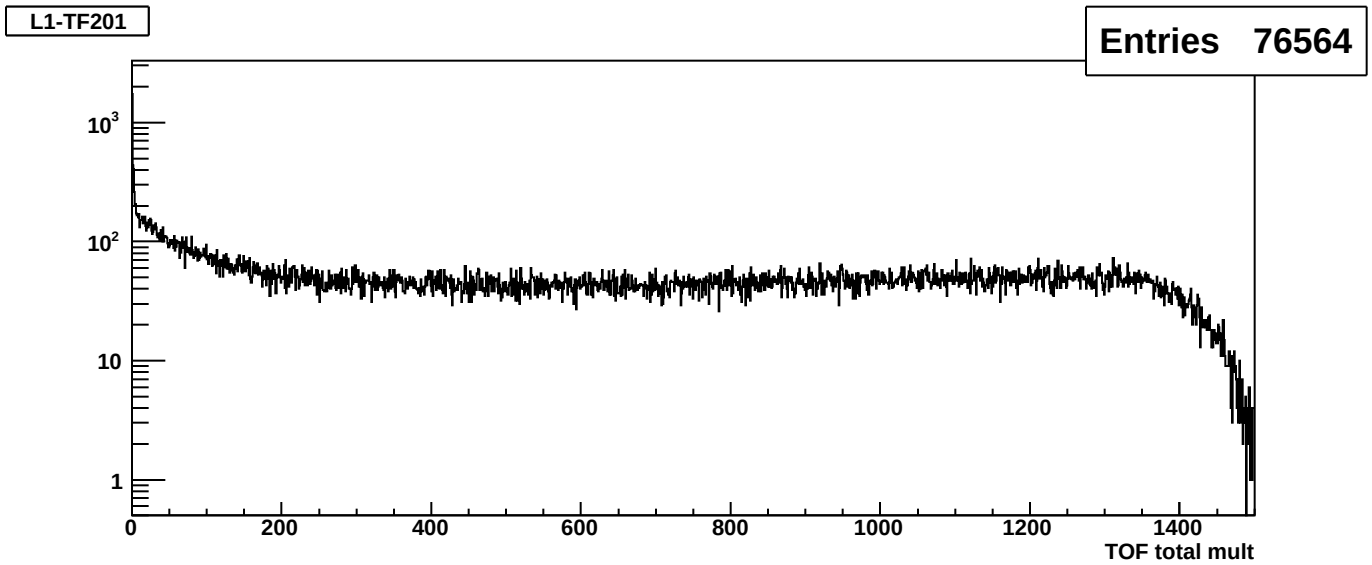

MIX-TF003
Entries 3215688
TOF MULT
TOF tray

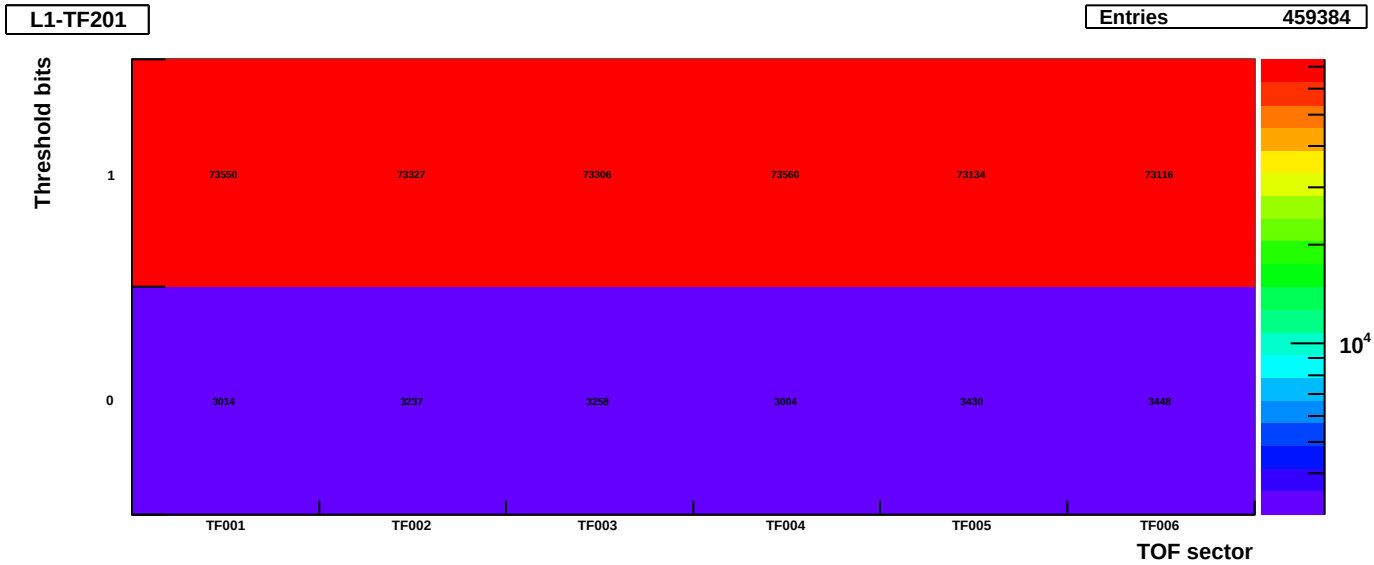

MIX-TF004
Entries 3215688
TOF MULT
TOF tray

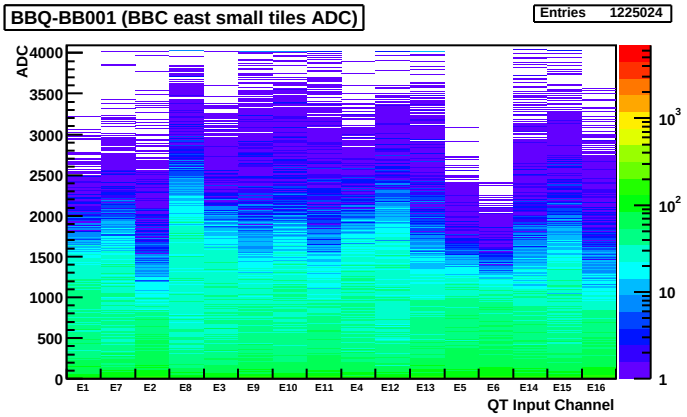

MIX-TF005
Entries 3215688
TOF MULT
TOF tray

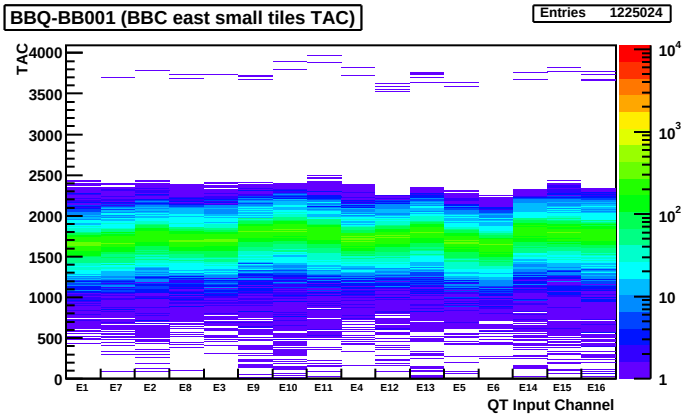

MIX-TF006
Entries 3215688
TOF MULT
TOF tray

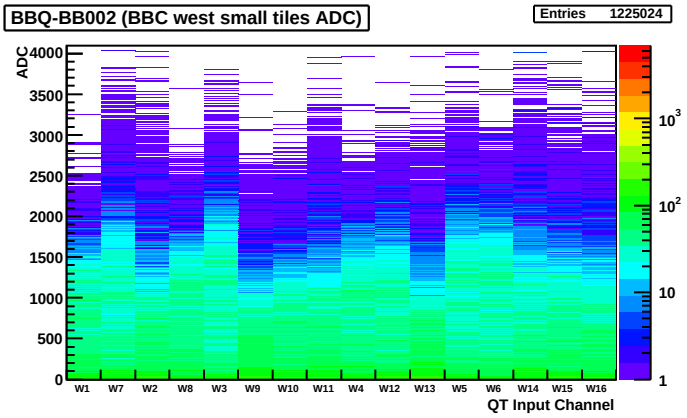

MIX-TF101
Entries 459384
TOF MULT
50
45
40
35
30
25
20
15
10
5
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^3

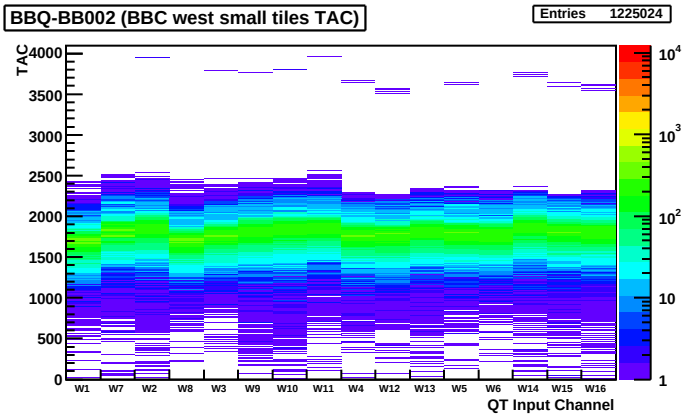

L1-TF201
Entries 76564
10^3
10^2
10
1
0
200
400
600
800
1000
1200
1400
TOF total mult

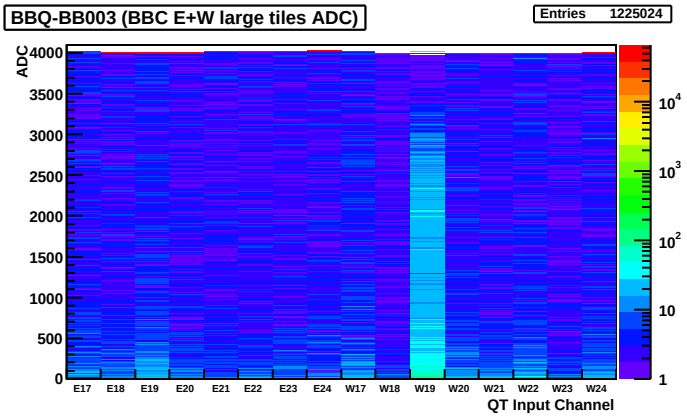

L1-TF201
Entries 459384
Threshold bits
1
0
73550
73327
73306
73560
73134
73116
3014
3237
3258
3004
3430
3448
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector
10^4

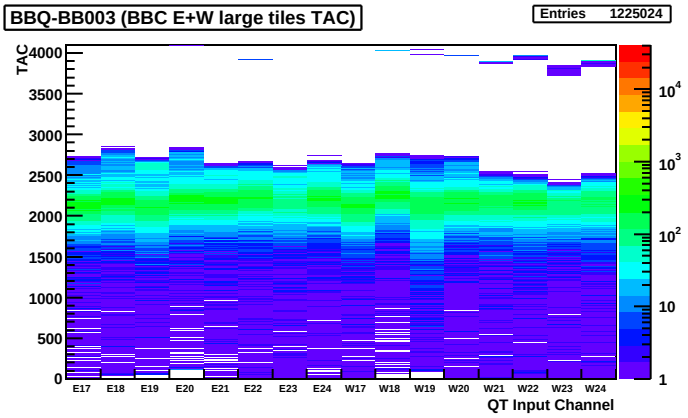

BBQ-BB001 (BBC east small tiles ADC)
Entries 1225024
ADC
QT Input Channel

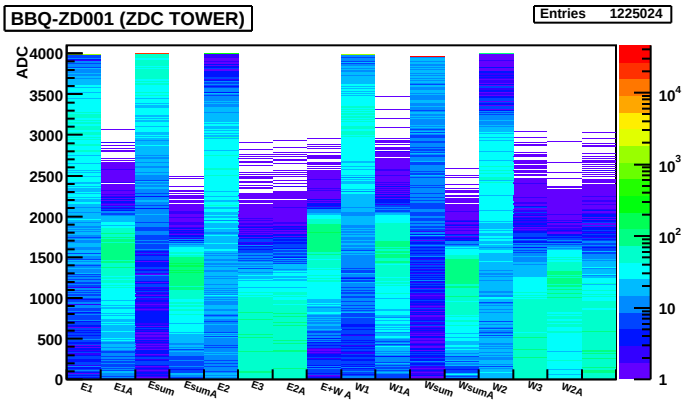

BBQ-BB001 (BBC east small tiles TAC)
Entries 1225024
TAC
QT Input Channel

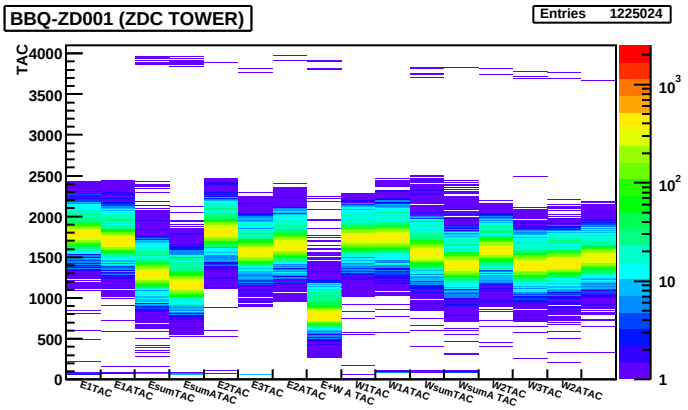

BBQ-BB002 (BBC west small tiles ADC)
Entries 1225024
ADC
QT Input Channel

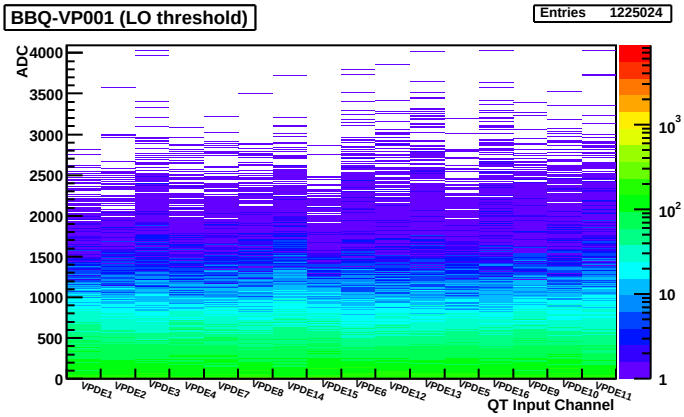

BBQ-BB002 (BBC west small tiles TAC)
Entries 1225024
TAC
QT Input Channel

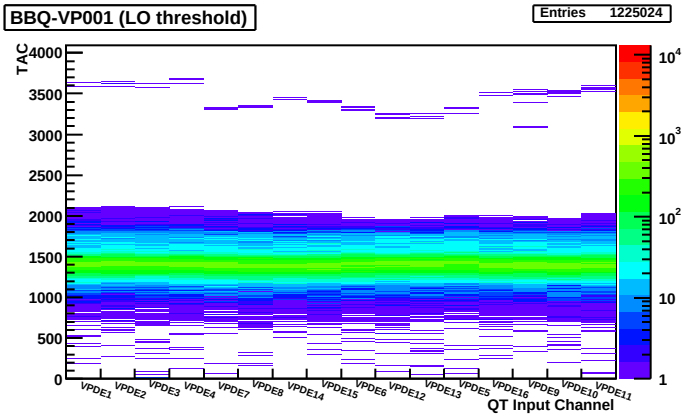

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 1225024
ADC
QT Input Channel

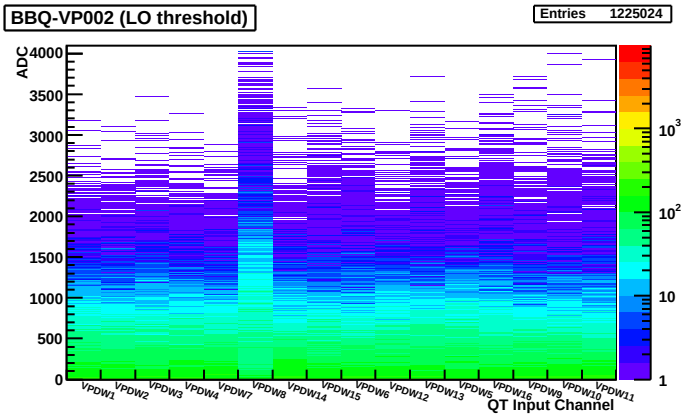

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 1225024
TAC
QT Input Channel

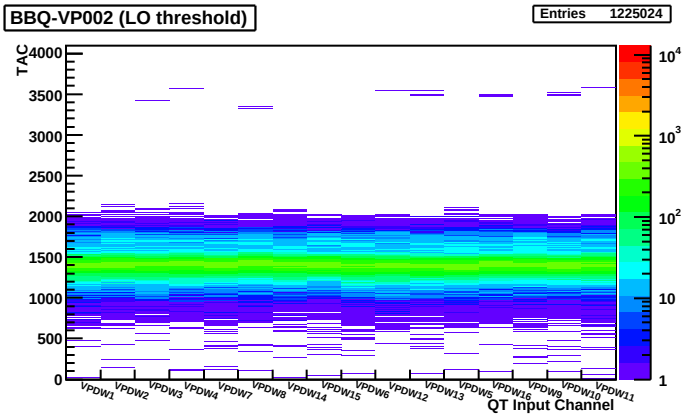

BBQ-ZD001 (ZDC TOWER)
Entries 1225024
ADC

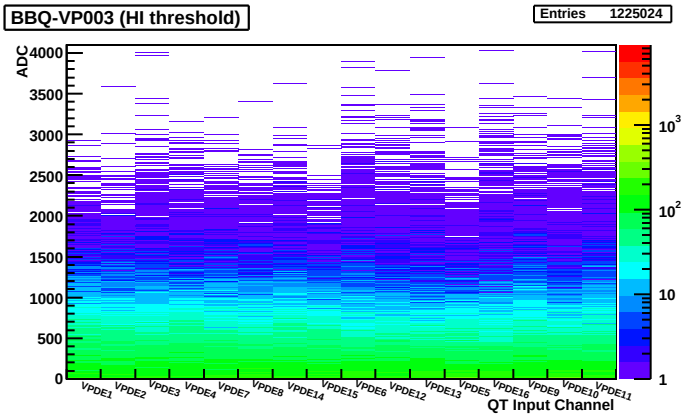

BBQ-ZD001 (ZDC TOWER)
Entries 1225024
TAC

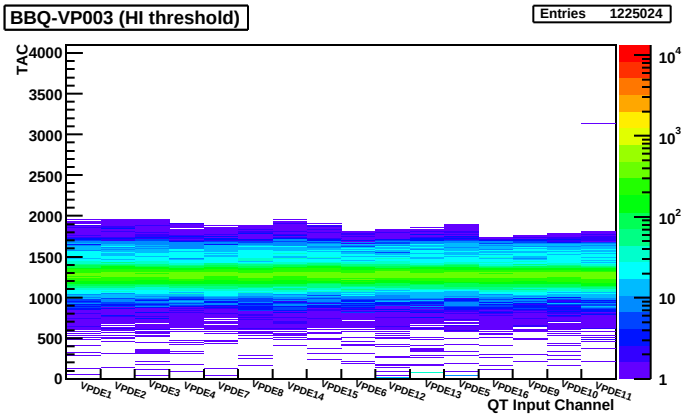

BBQ-VP001 (LO threshold)
Entries 1225024
ADC
QT Input Channel

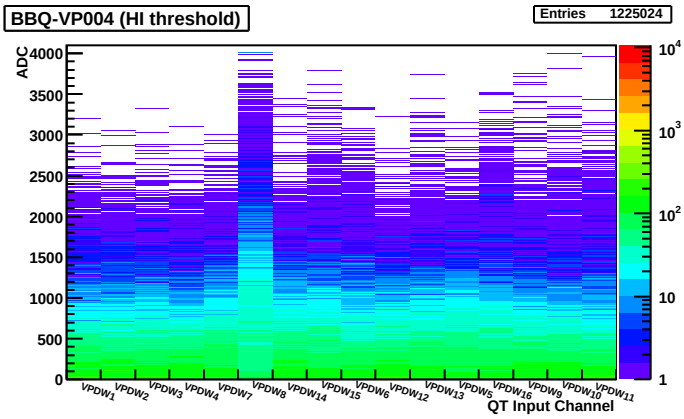

BBQ-VP001 (LO threshold)
Entries 1225024
TAC
QT Input Channel

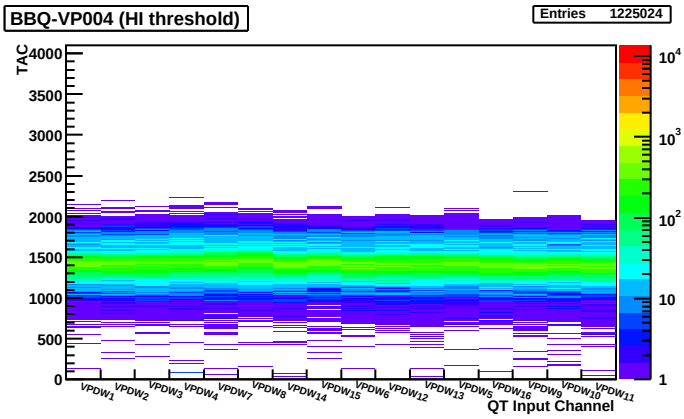

BBQ-VP002 (LO threshold)
Entries 1225024
ADC
QT Input Channel

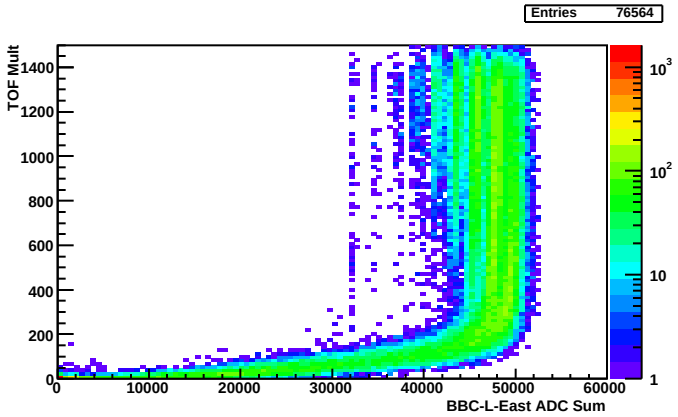

BBQ-VP002 (LO threshold)
Entries 1225024
TAC
QT Input Channel

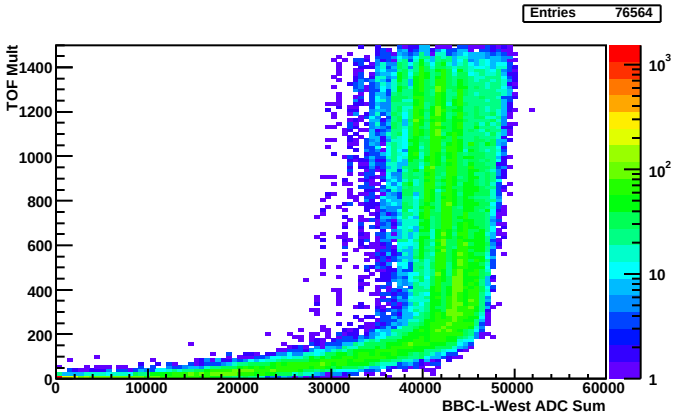

BBQ-VP003 (HI threshold)
Entries 1225024
ADC
QT Input Channel

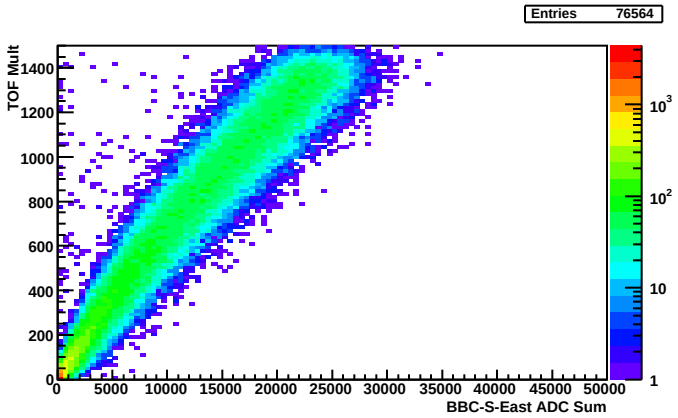

BBQ-VP003 (HI threshold)
Entries 1225024
TAC
QT Input Channel

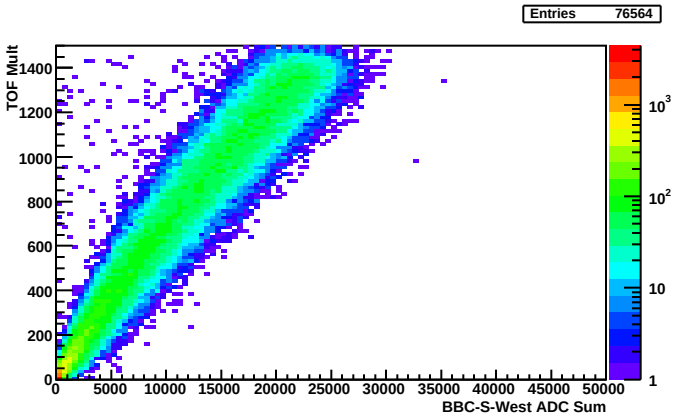

BBQ-VP004 (HI threshold)
Entries 1225024
ADC
QT Input Channel

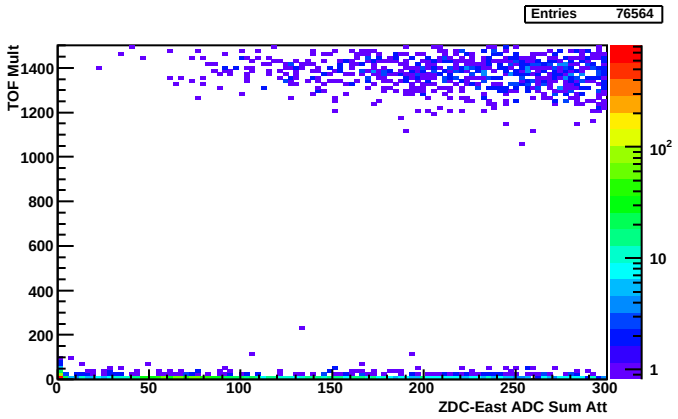

BBQ-VP004 (HI threshold)
Entries 1225024
TAC
QT Input Channel

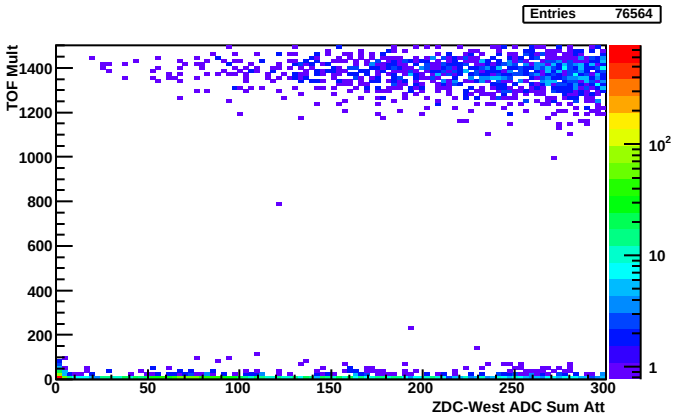

Entries 76564
TOF Mult
BBC-L-East ADC Sum

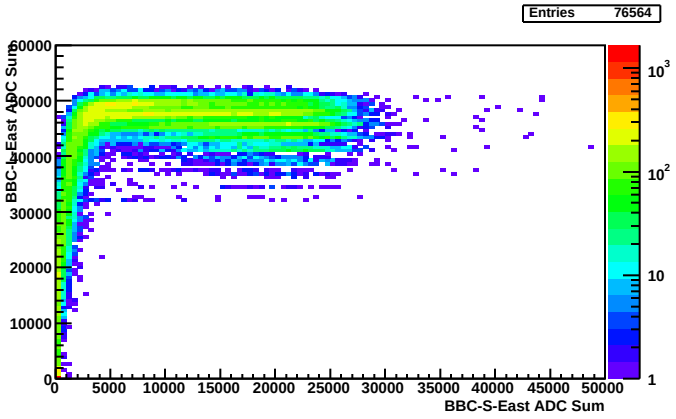

Entries 76564
TOF Mult
BBC-L-West ADC Sum

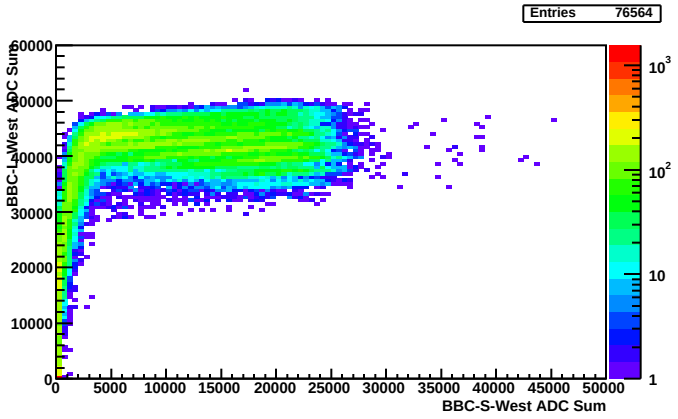

Entries 76564
TOF Mult
BBC-S-East ADC Sum

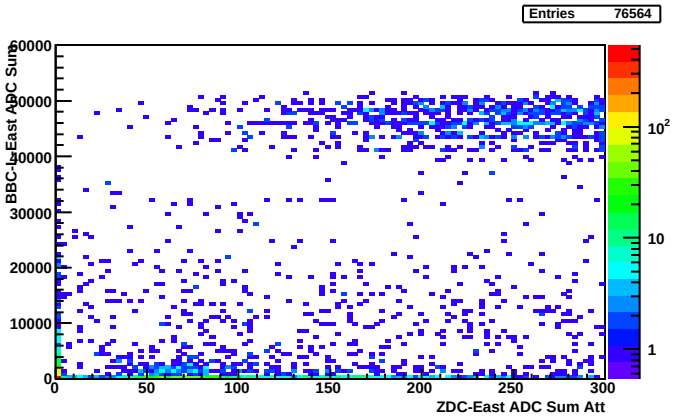

Entries 76564
TOF Mult
BBC-S-West ADC Sum

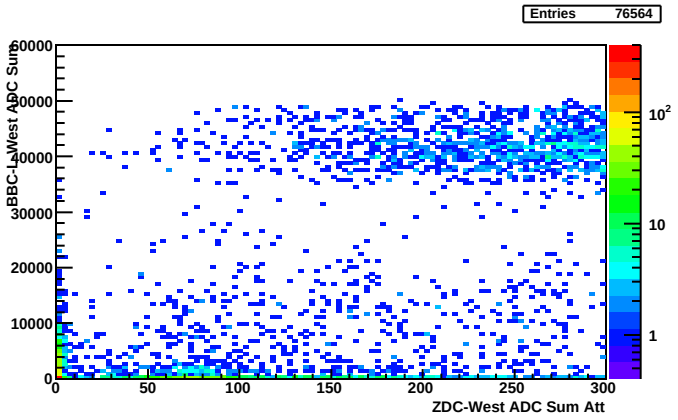

Entries 76564
TOF Mult
ZDC-East ADC Sum Att


Entries 76564
TOF Mult
ZDC-West ADC Sum Att


Entries 76564
BBC-L-East ADC Sum
BBC-S-East ADC Sum


Entries 76564
BBC-L-West ADC Sum
BBC-S-West ADC Sum


Entries 76564
BBC-L-East ADC Sum
ZDC-East ADC Sum Att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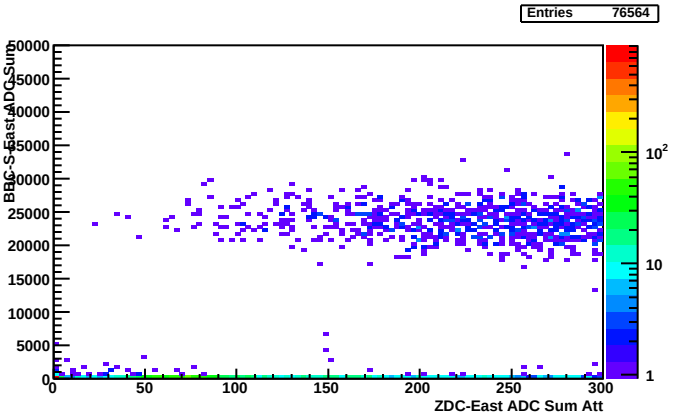
BBC-L-West ADC Sum
ZDC-West ADC Sum Att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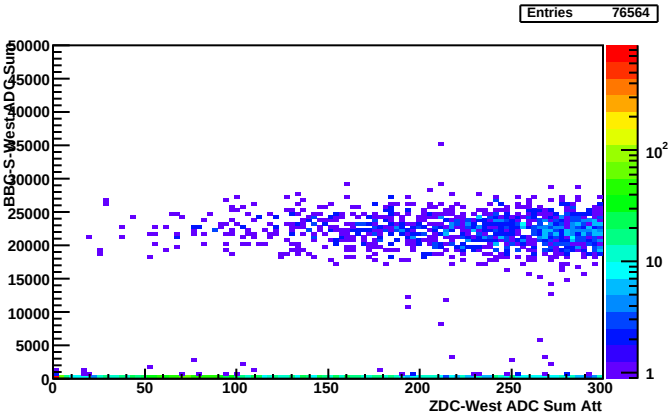
BBC-S-East ADC Sum
ZDC-East ADC Sum Att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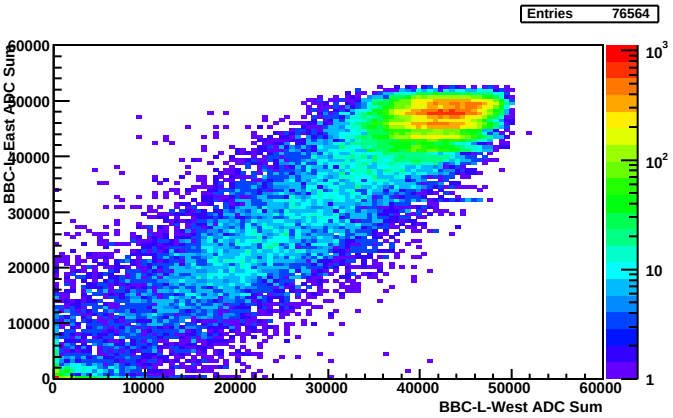
BBC-S-West ADC Sum
ZDC-West ADC Sum Att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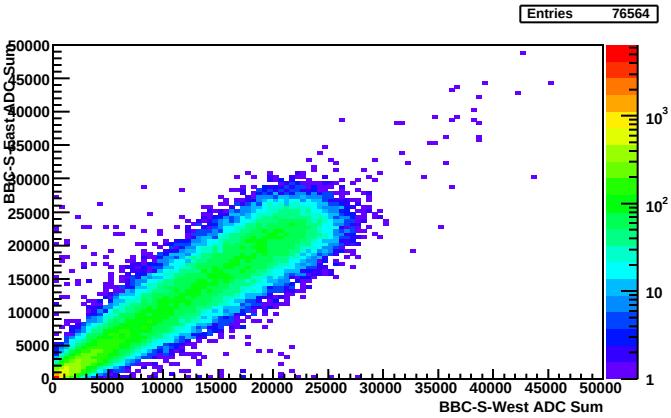
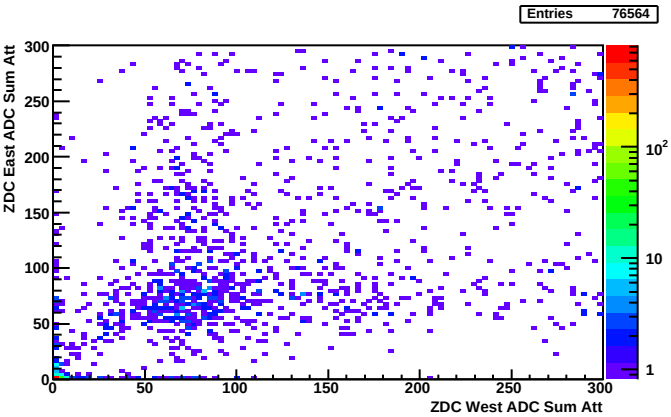
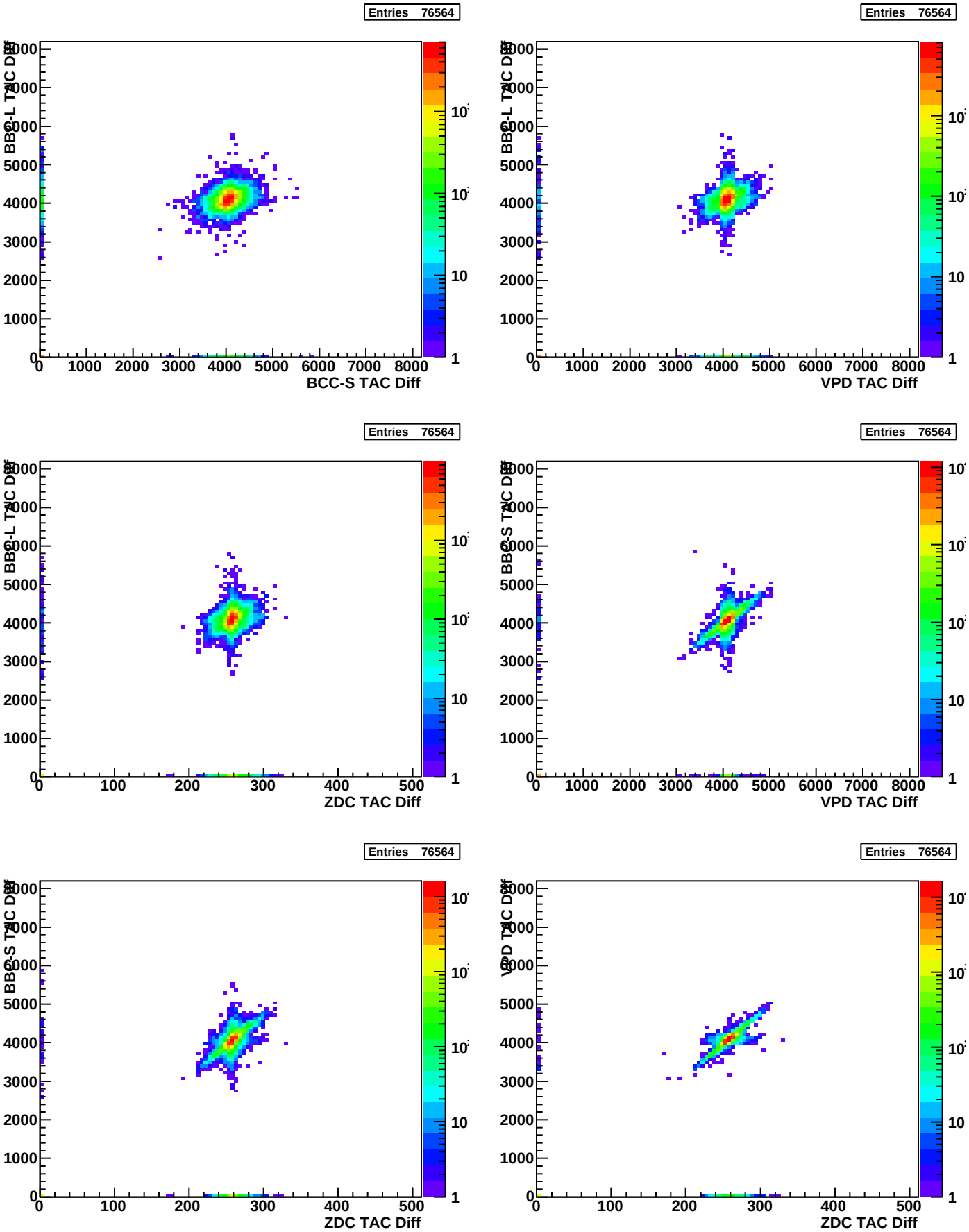
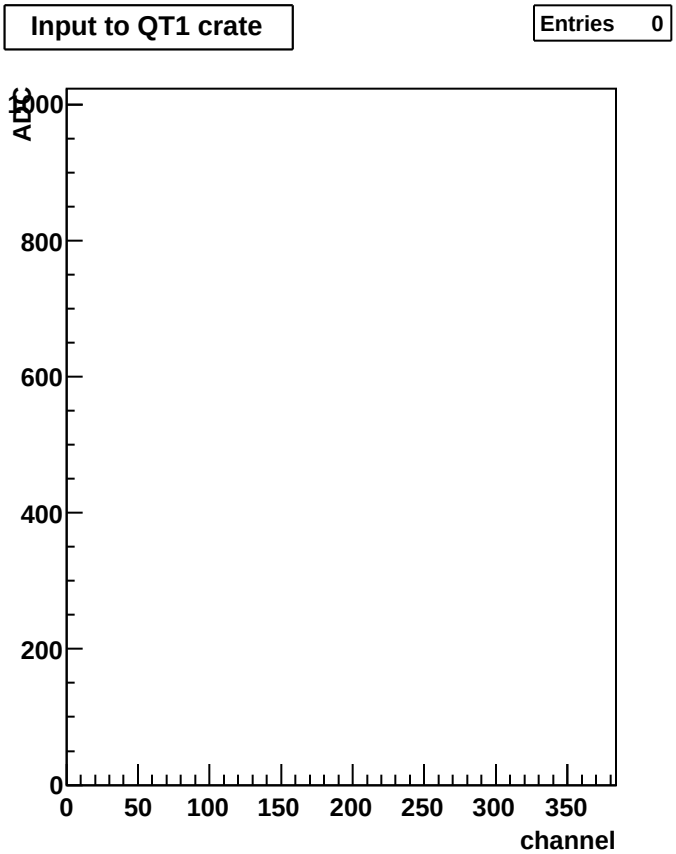
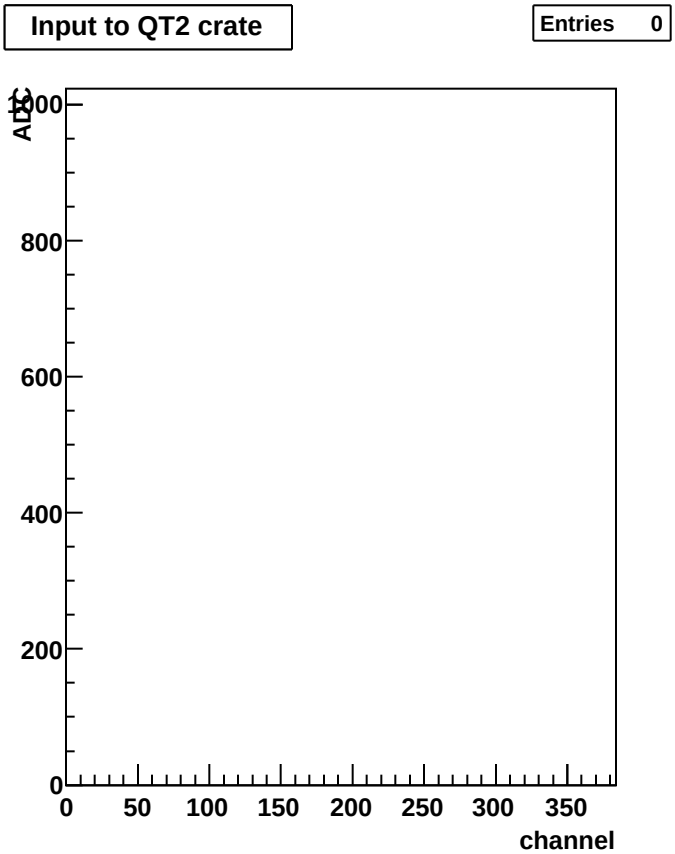
BBC-L-East ADC Sum
BBC-L-West ADC Sum

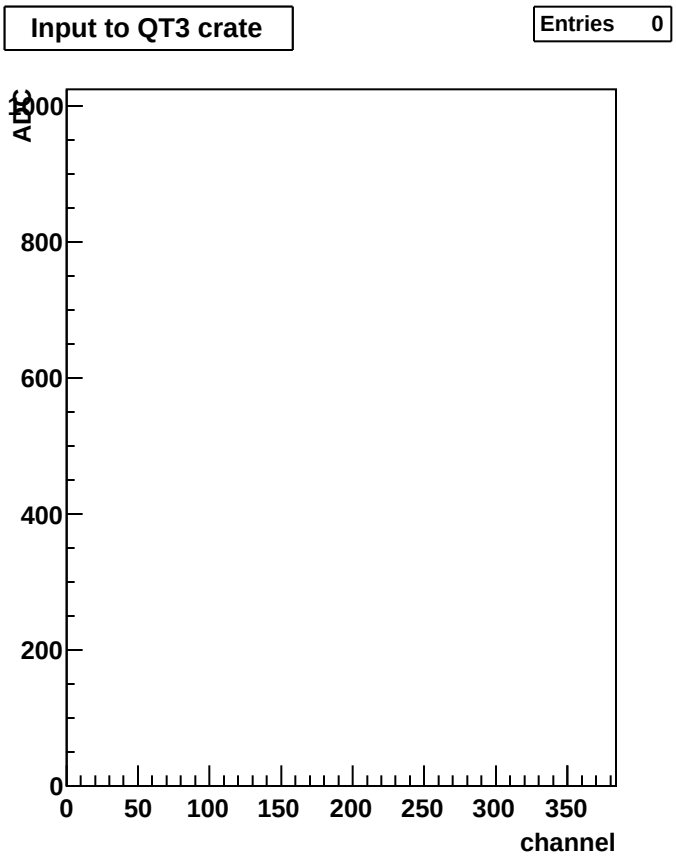

Entries 76564
BBC-S-East ADC Sum
BBC-S-West ADC Sum

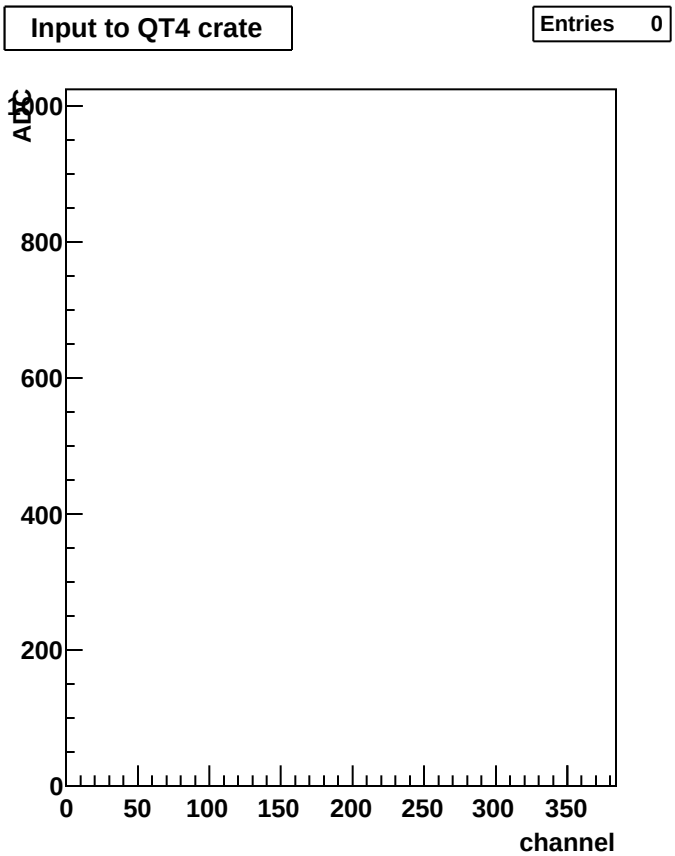

Entries 76564
ZDC East ADC Sum Att
ZDC West ADC Sum Att

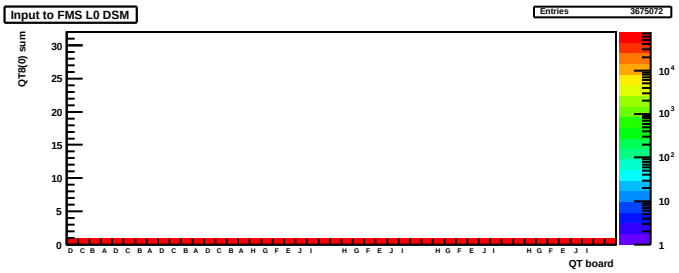

Entries 76564
BBC-L TAC Diff
BCC-S TAC Diff
Entries 76564
BBC-L TAC Diff
VPD TAC Diff
Entries 76564
BBC-L TAC Diff
ZDC TAC Diff
Entries 76564
BBC-S TAC Diff
VPD TAC Diff
Entries 76564
BBC-S TAC Diff
ZDC TAC Diff
Entries 76564
VPD TAC Diff
ZDC TAC Diff

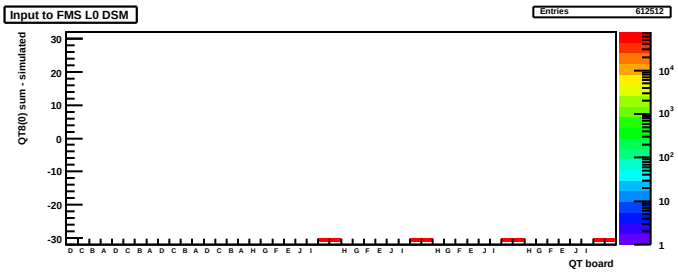

Input to QT1 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

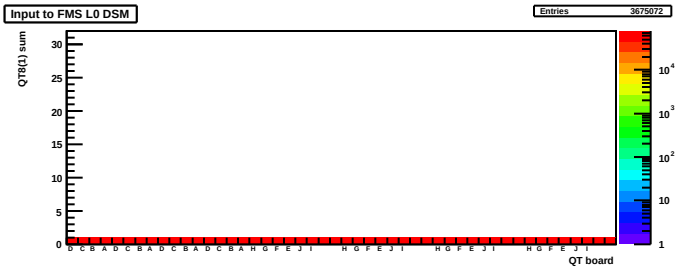

Input to QT2 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

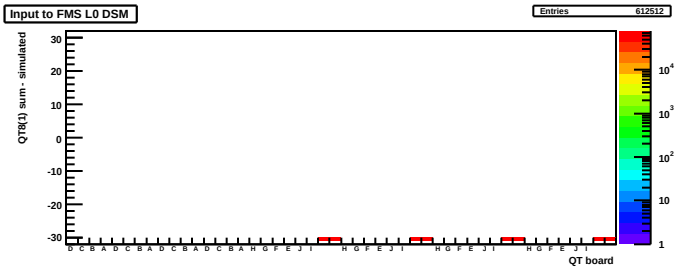

Input to QT3 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

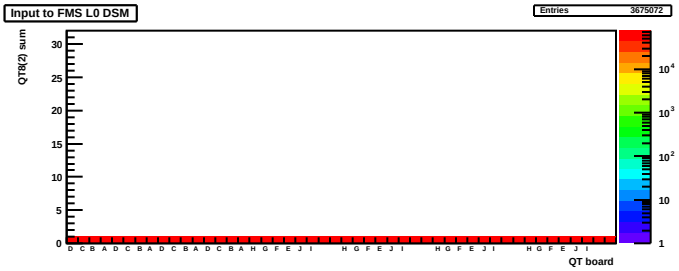

Input to QT4 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

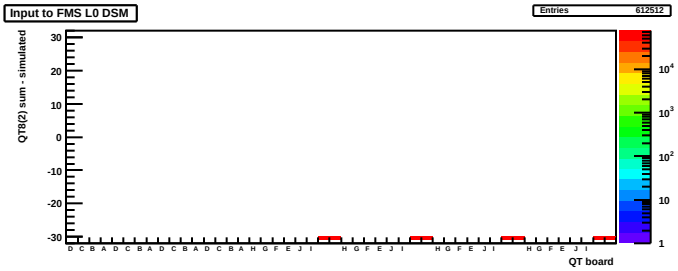

Input to FMS L0 DSM
Entries 3675072
QT8(0) sum
QT board

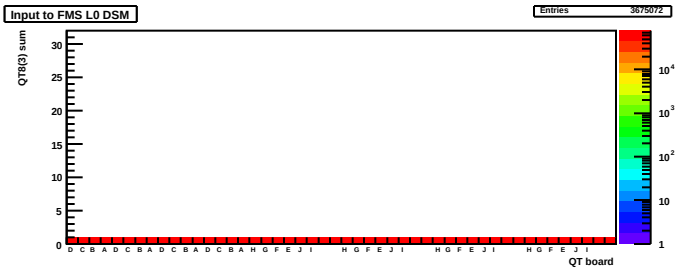

Input to FMS L0 DSM
Entries 612512
QT8(0) sum - simulated
QT board

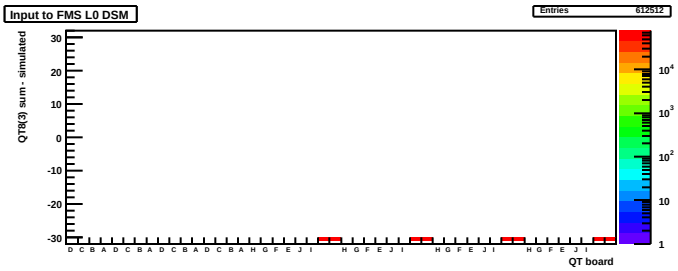

Input to FMS L0 DSM
Entries 3675072
QT8(1) sum
QT board

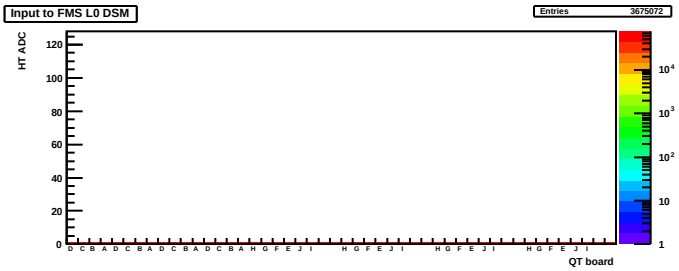

Input to FMS L0 DSM
Entries 612512
QT8(1) sum - simulated
QT board

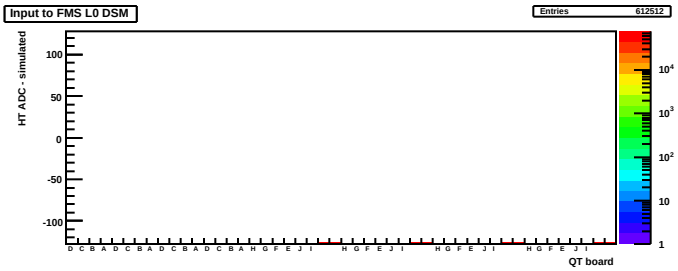

Input to FMS L0 DSM
Entries 3675072
QT8(2) sum
QT board

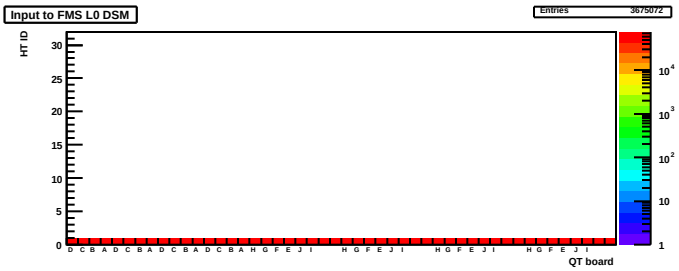

Input to FMS L0 DSM
Entries 612512
QT8(2) sum - simulated
QT board

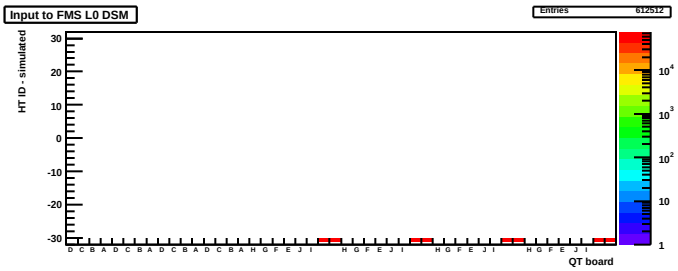

Input to FMS L0 DSM
Entries 3675072
QT8(3) sum
QT board

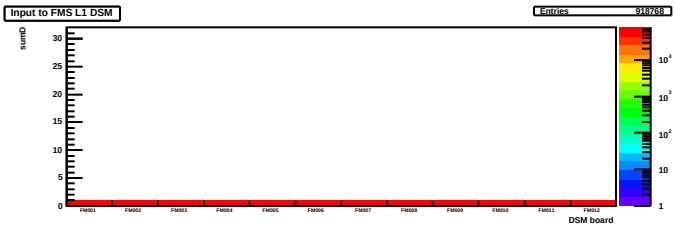

Input to FMS L0 DSM
Entries 612512
QT8(3) sum - simulated
QT board

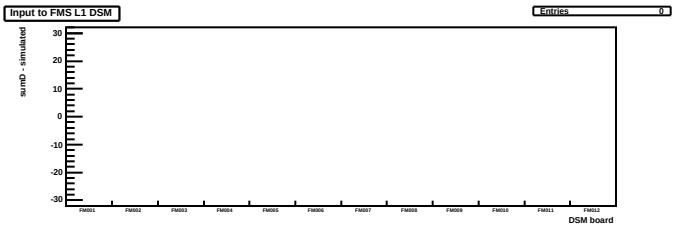

Input to FMS L0 DSM
Entries 3675072
HT ADC
QT board

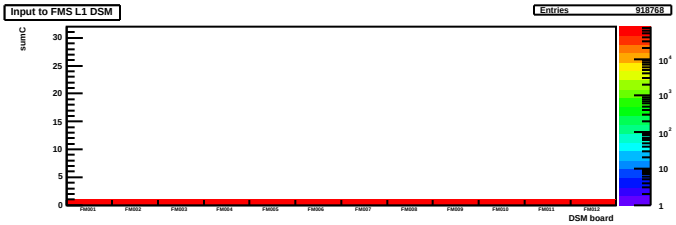

Input to FMS L0 DSM
Entries 612512
HT ADC - simulated
QT board

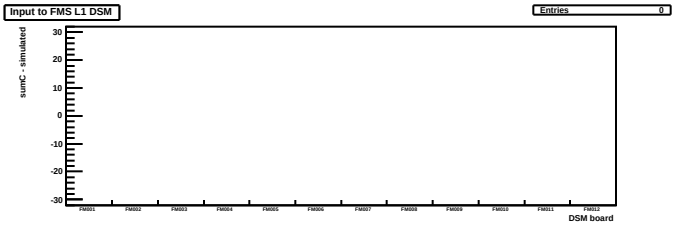

Input to FMS L0 DSM
Entries 3675072
HT ID
QT board

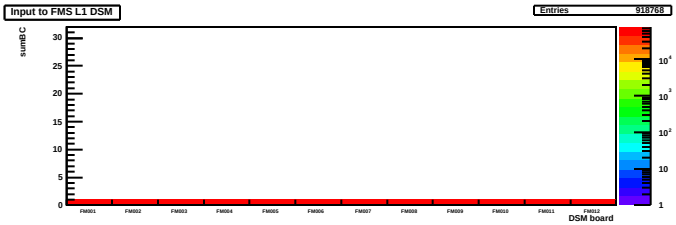

Input to FMS L0 DSM
Entries 612512
HT ID - simulated
QT board

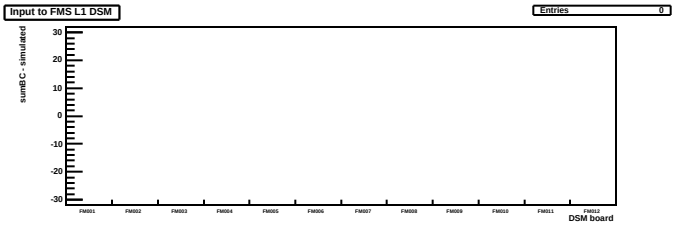

Input to FMS L1 DSM
Entries 918768
sumD
DSM board

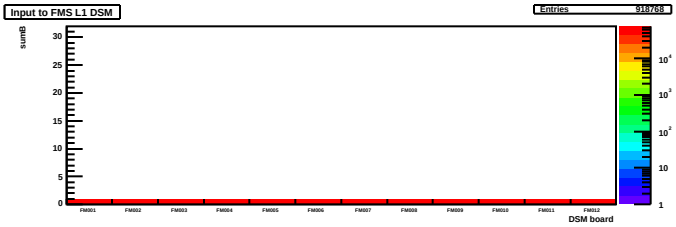

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

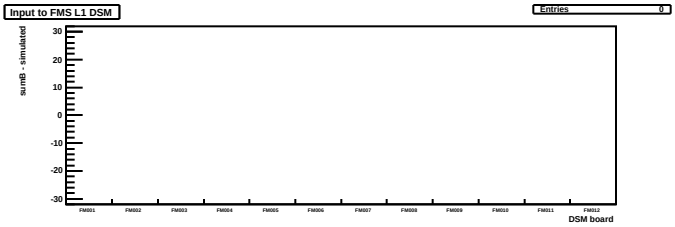

Input to FMS L1 DSM
Entries 918768
sumC
DSM board

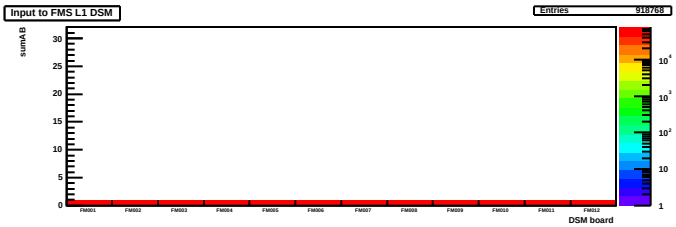

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

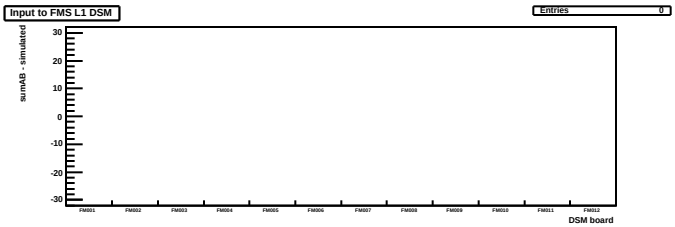

Input to FMS L1 DSM
Entries 918768
sumBC
DSM board

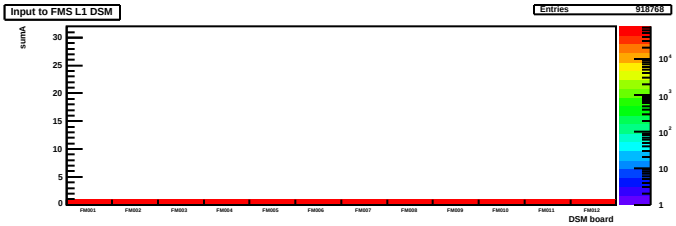

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

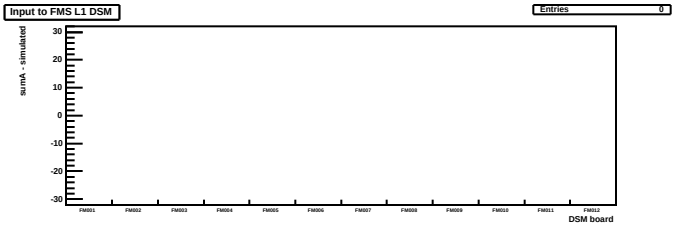

Input to FMS L1 DSM
Entries 918768
sumB
DSM board

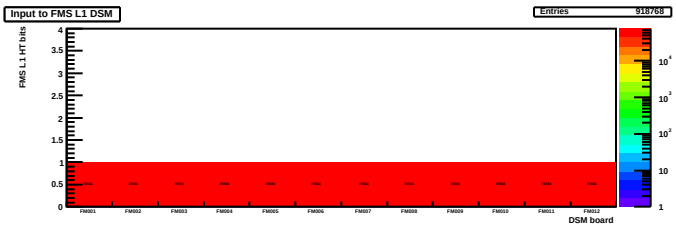

Input to FMS L1 DSM
Entries 0
sumB - simulated
DSM board

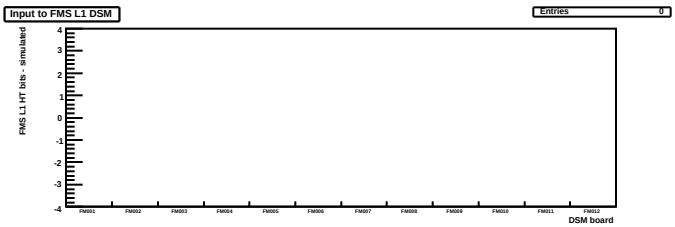

Input to FMS L1 DSM
Entries 918768
sumAB
DSM board

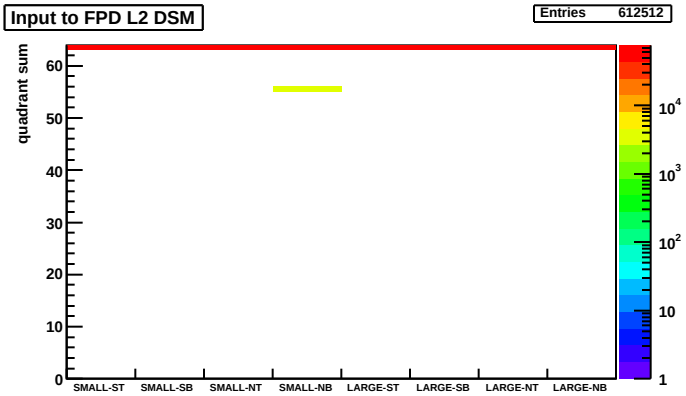

Input to FMS L1 DSM
Entries 0
sumAB - simulated
DSM board

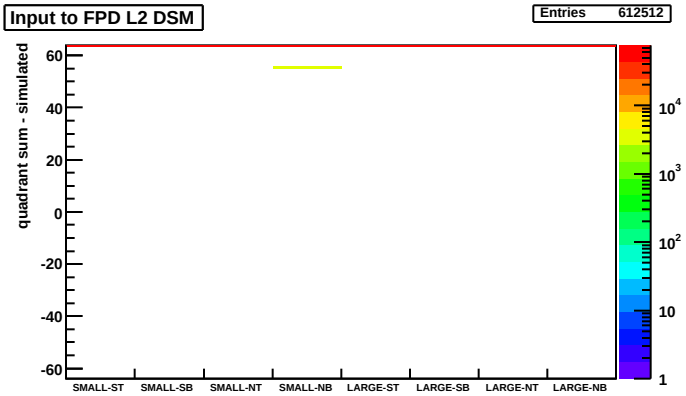

Input to FMS L1 DSM
Entries 918768
sumA
DSM board

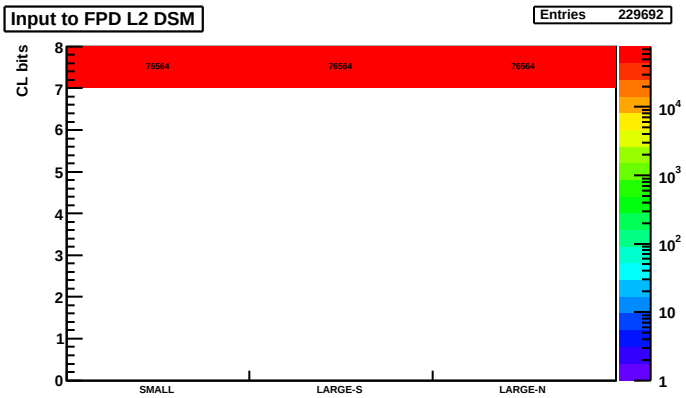

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

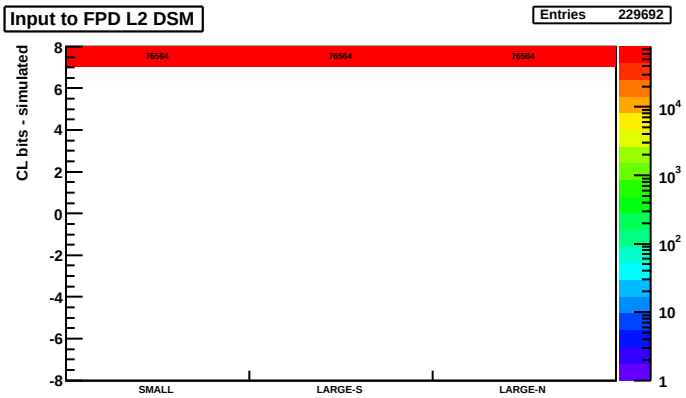

Input to FMS L1 DSM
Entries 918768
FMS L1 HT bits
DSM board

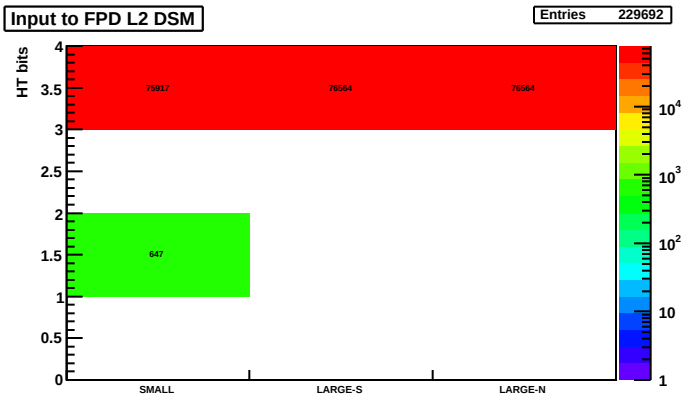

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

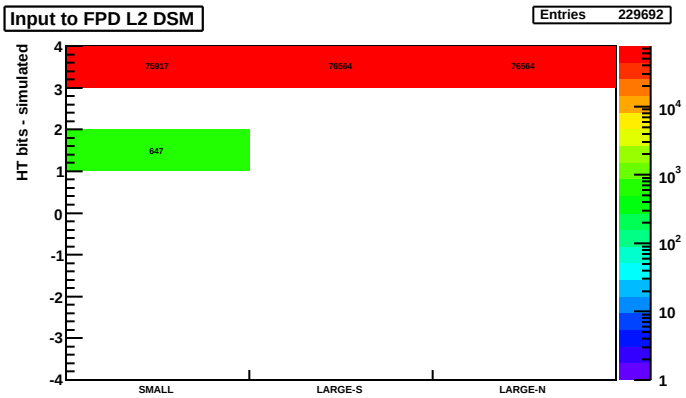

Input to FPD L2 DSM
Entries 612512
quadrant sum
SMALL-ST SMALL-SB SMALL-NT SMALL-NB LARGE-ST LARGE-SB LARGE-NT LARGE-NB

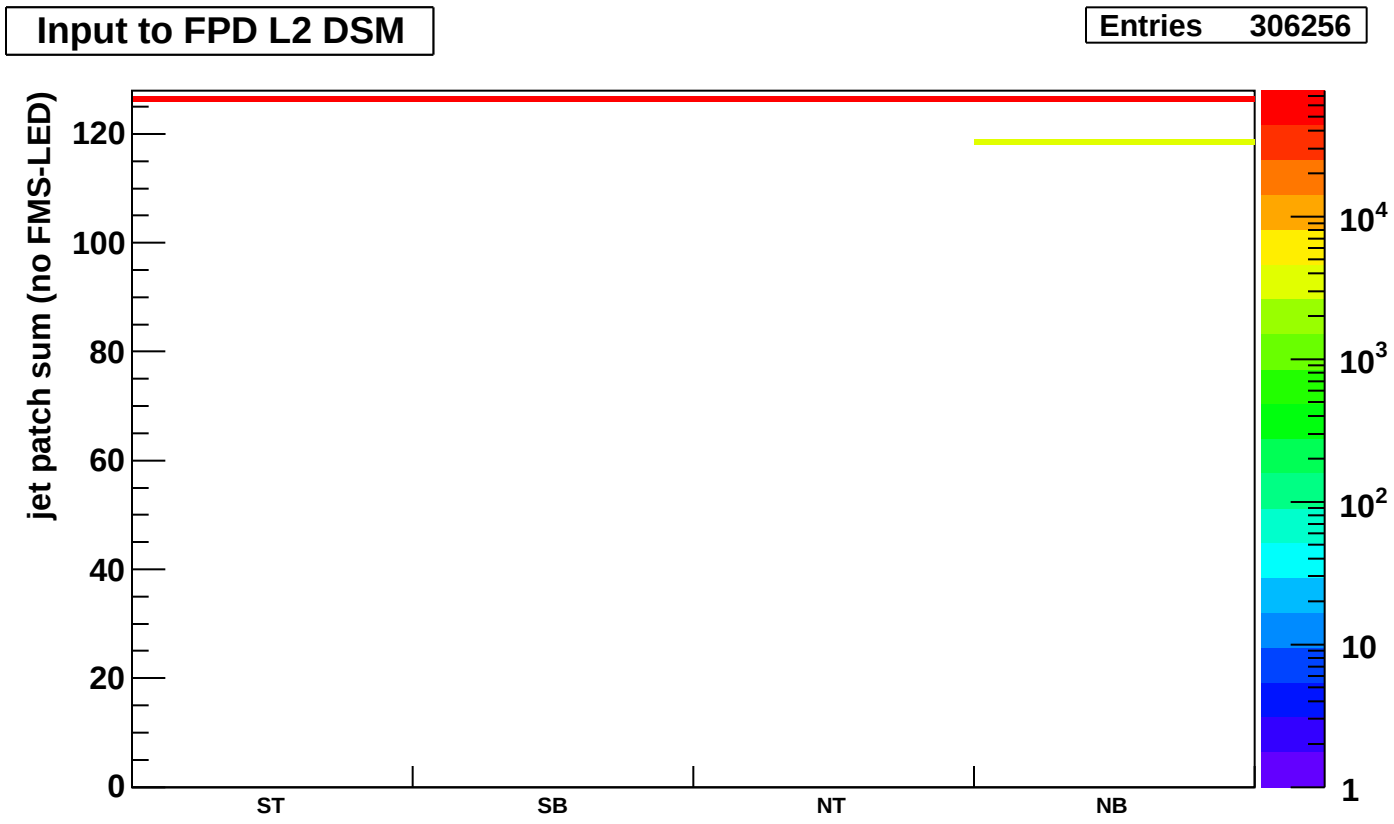

Input to FPD L2 DSM
Entries 612512
quadrant sum - simulated
SMALL-ST SMALL-SB SMALL-NT SMALL-NB LARGE-ST LARGE-SB LARGE-NT LARGE-NB

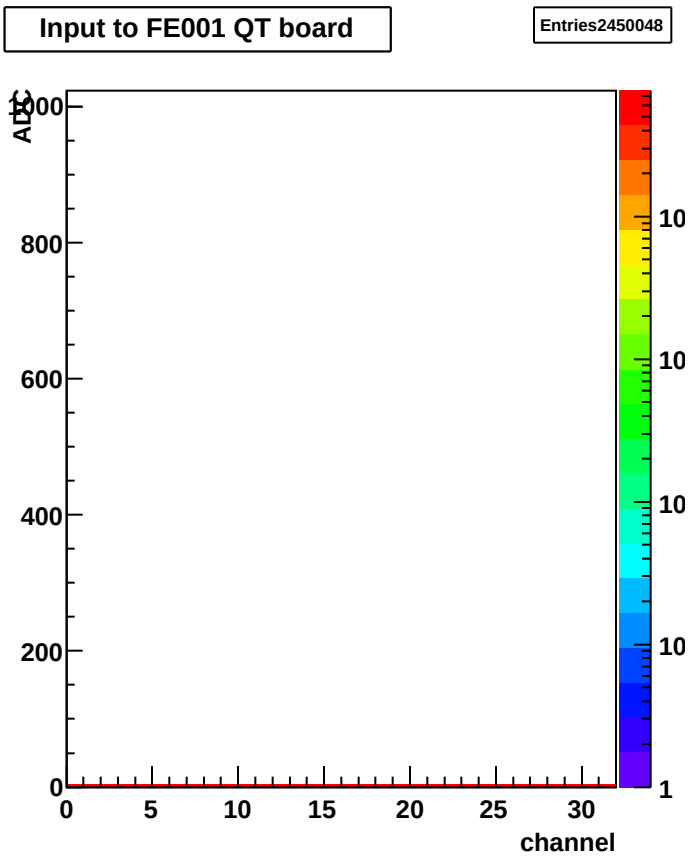

Input to FPD L2 DSM
Entries 229692
CL bits
76564 76564 76564
SMALL LARGE-S LARGE-N

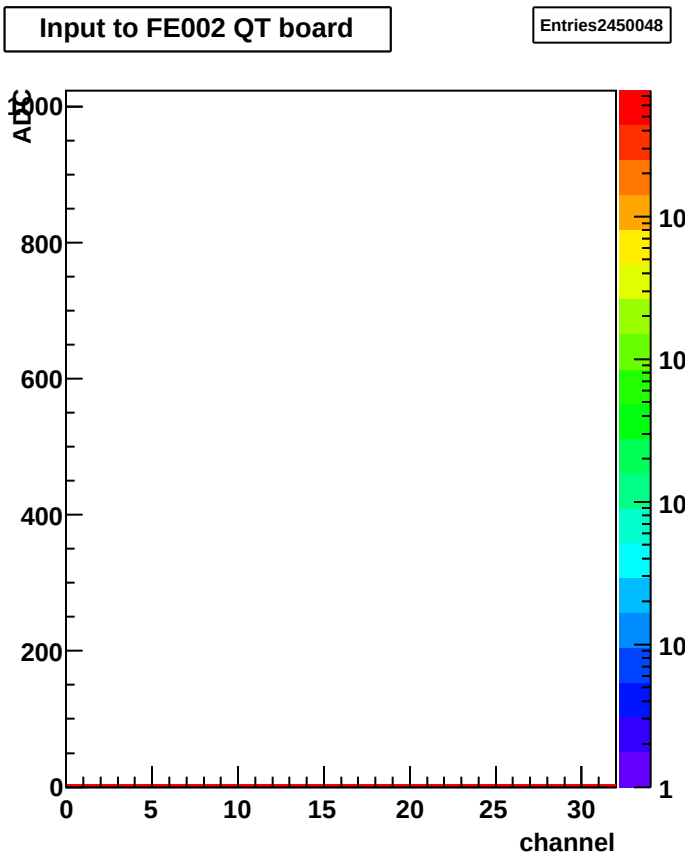

Input to FPD L2 DSM
Entries 229692
CL bits - simulated
76564 76564 76564
SMALL LARGE-S LARGE-N

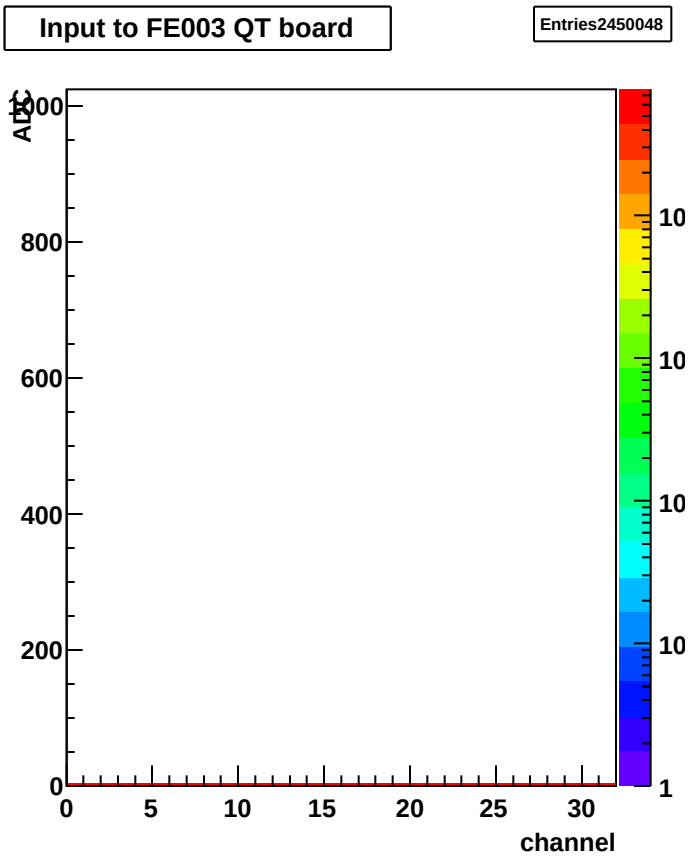

Input to FPD L2 DSM
Entries 229692
HT bits
75917 76564 76564
647
SMALL LARGE-S LARGE-N

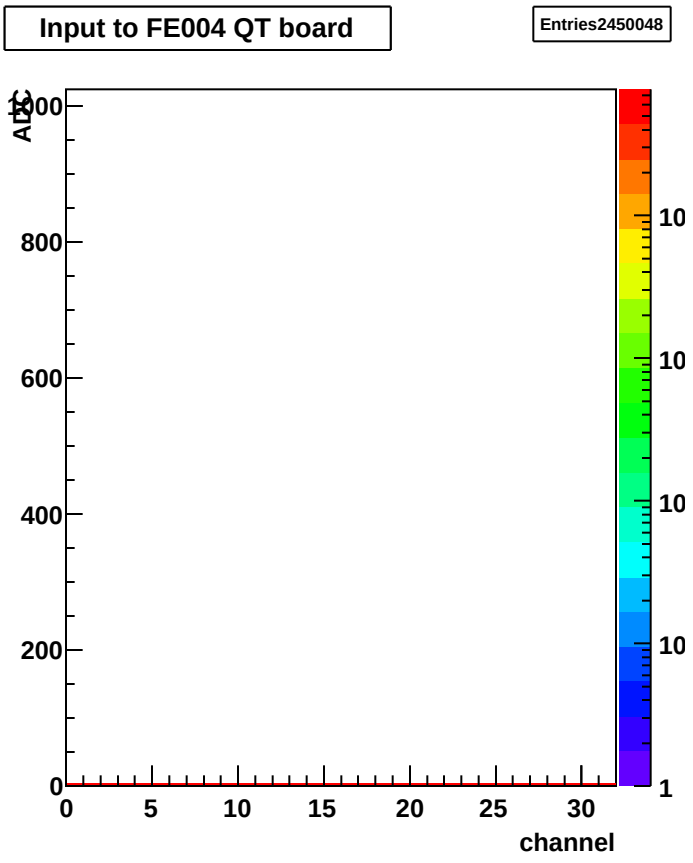

Input to FPD L2 DSM
Entries 229692
HT bits - simulated
75917 76564 76564
647
SMALL LARGE-S LARGE-N

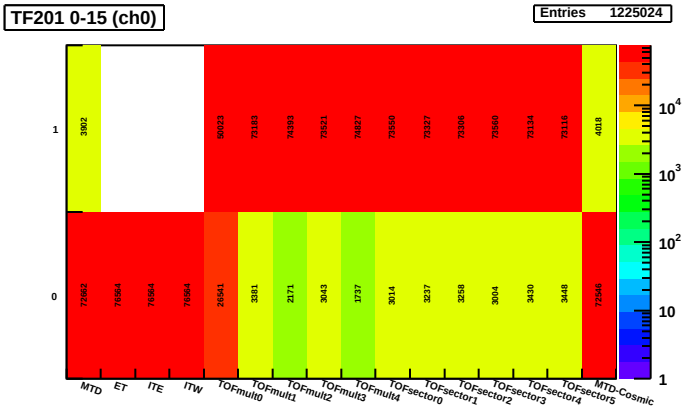

Input to FPD L2 DSM
Entries 306256
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
1
10
10^2
10^3
10^4

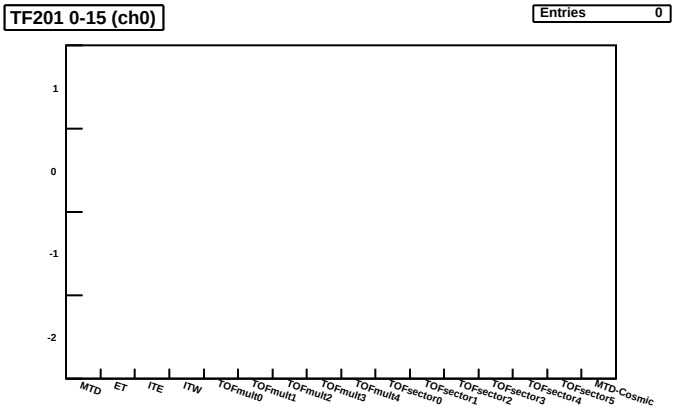

Input to FE001 QT board
Entries2450048
ADC
channel

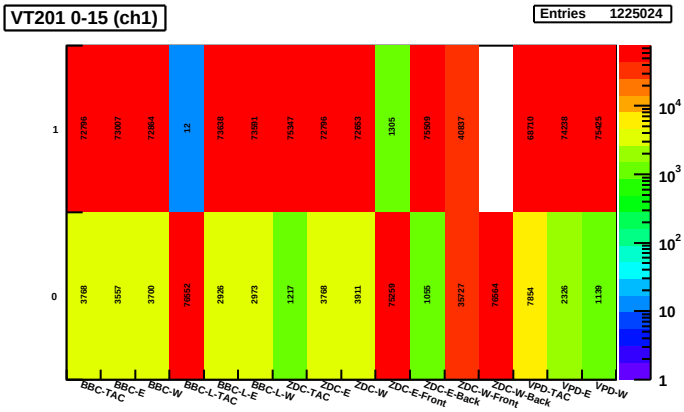

Input to FE002 QT board
Entries2450048
ADC
channel

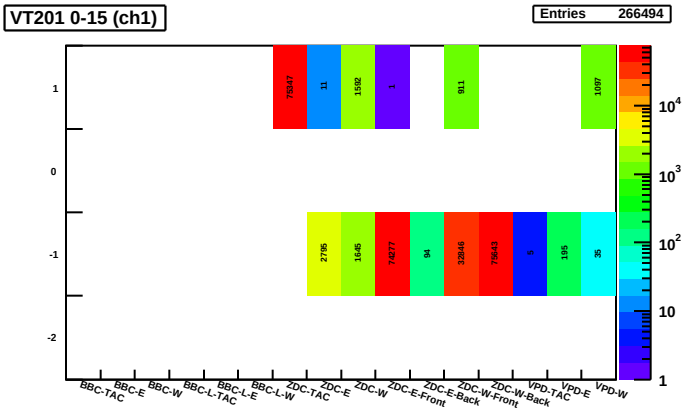

Input to FE003 QT board
Entries2450048
ADC
channel

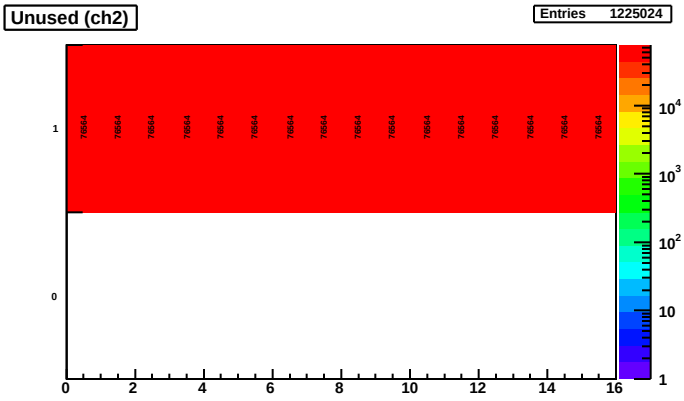

Input to FE004 QT board
Entries2450048
ADC
channel

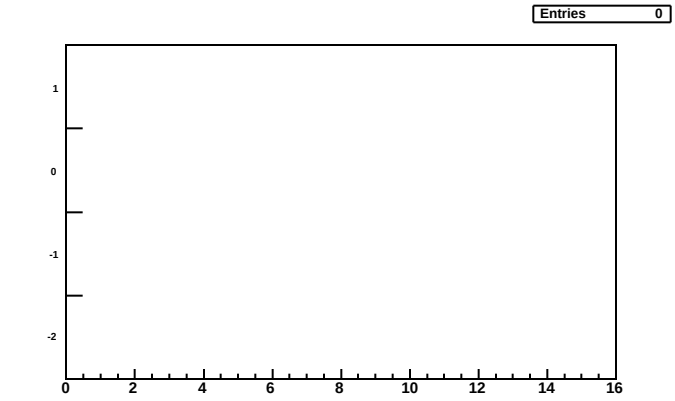

TF201 0-15 (ch0)
Entries 1225024
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

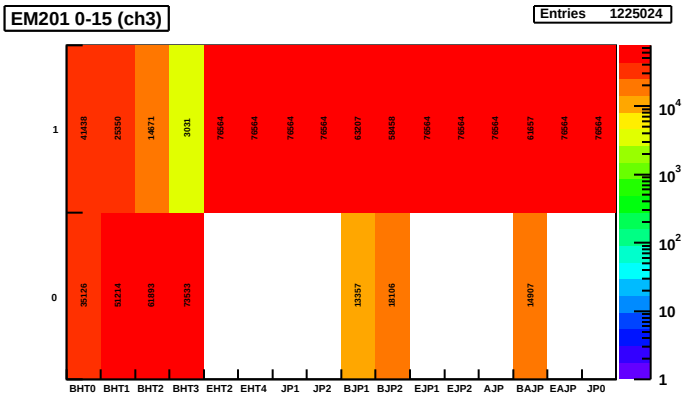

TF201 0-15 (ch0)
Entries 0
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

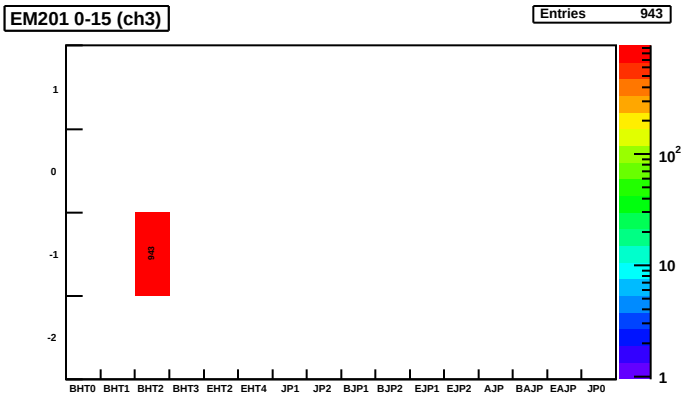

VT201 0-15 (ch1)
Entries 1225024
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W


VT201 0-15 (ch1)
Entries 266494
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W

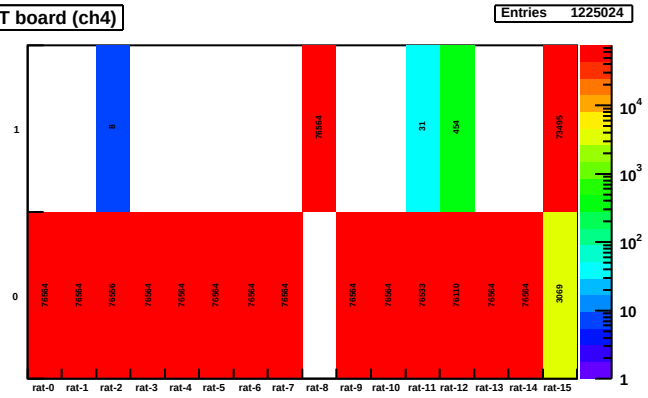

Unused (ch2)
Entries 1225024

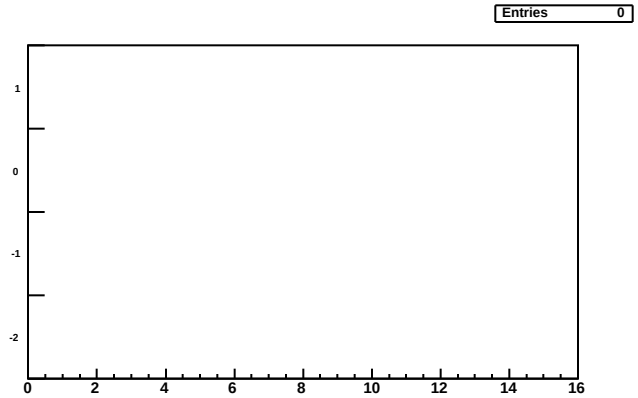

Entries 0


EM201 0-15 (ch3)
Entries 1225024
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

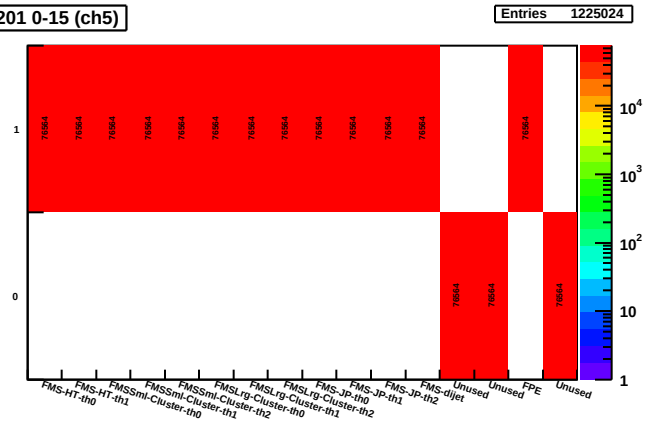

EM201 0-15 (ch3)
Entries 943
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

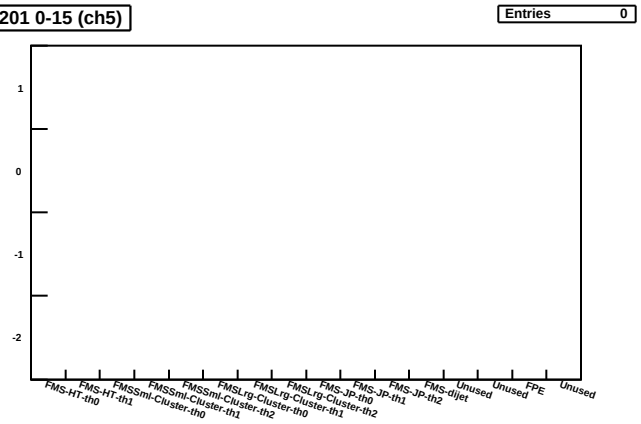
RAT board (ch4)



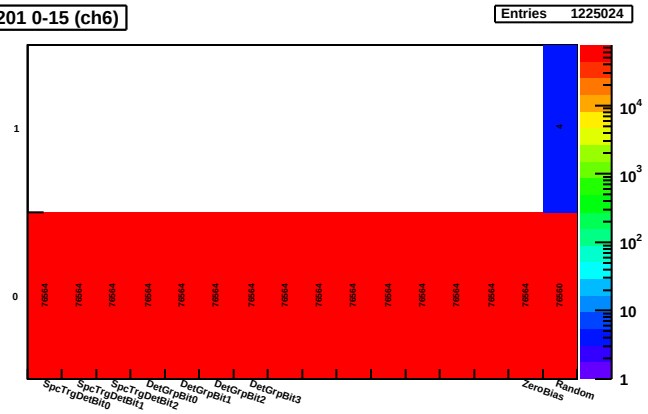


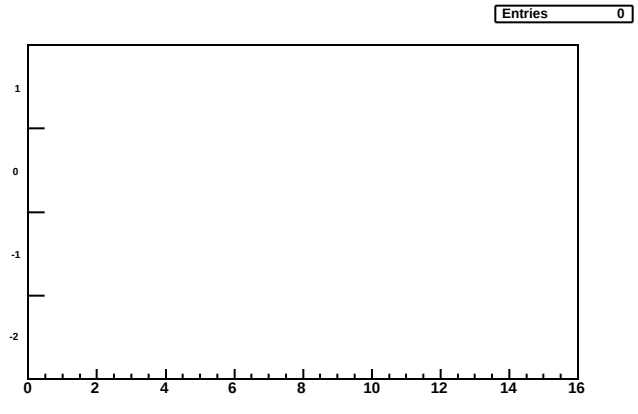
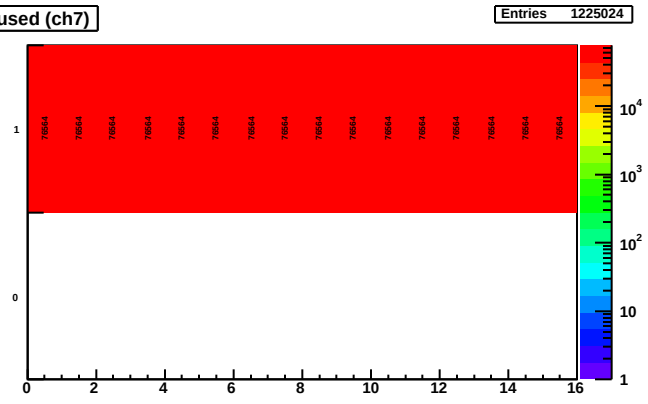
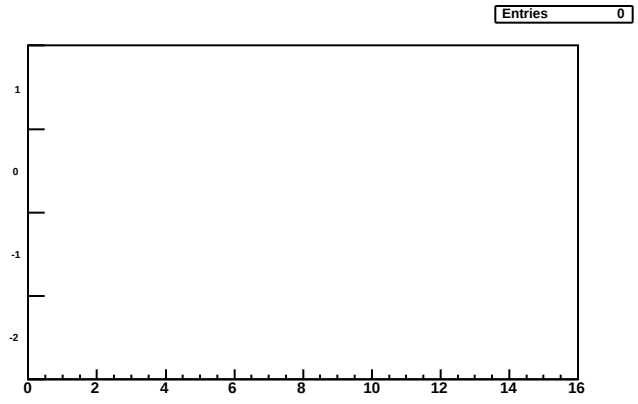
FP201 0-15 (ch5)





ST201 0-15 (ch6)





Unused (ch7)