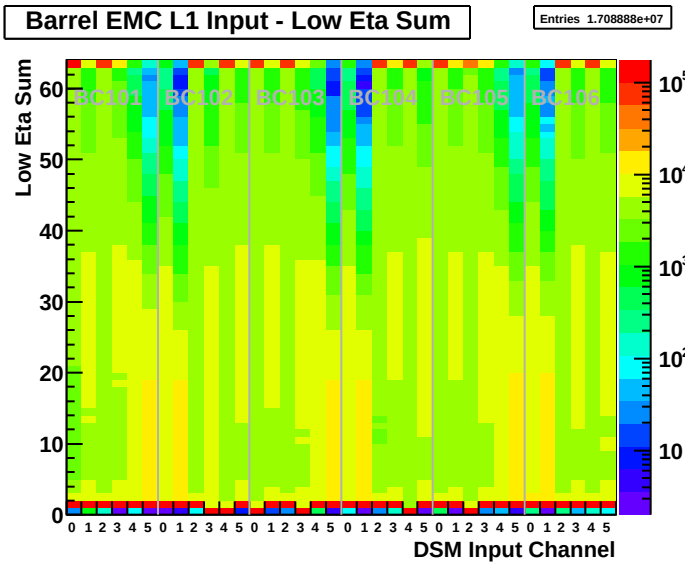
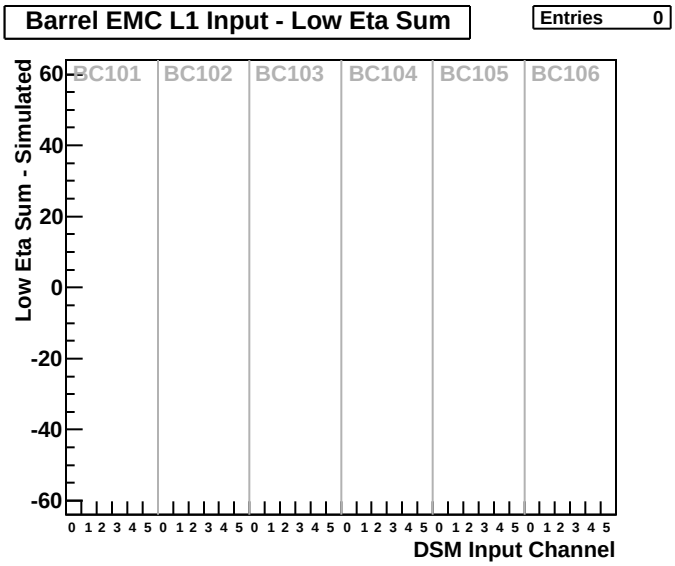
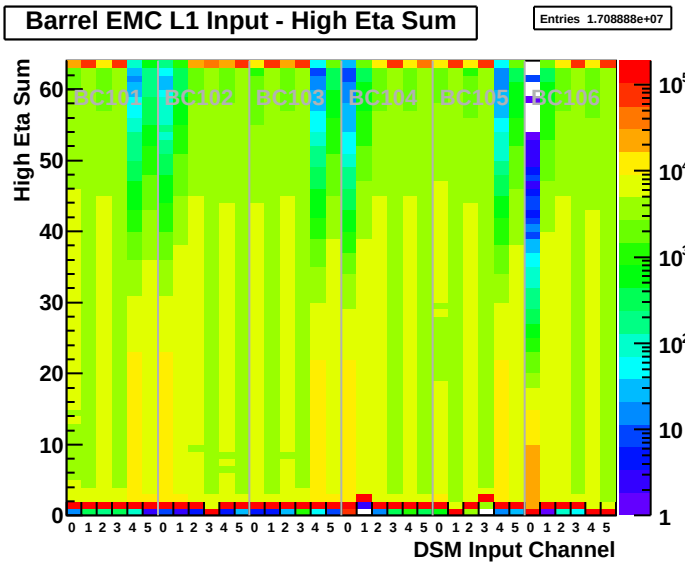
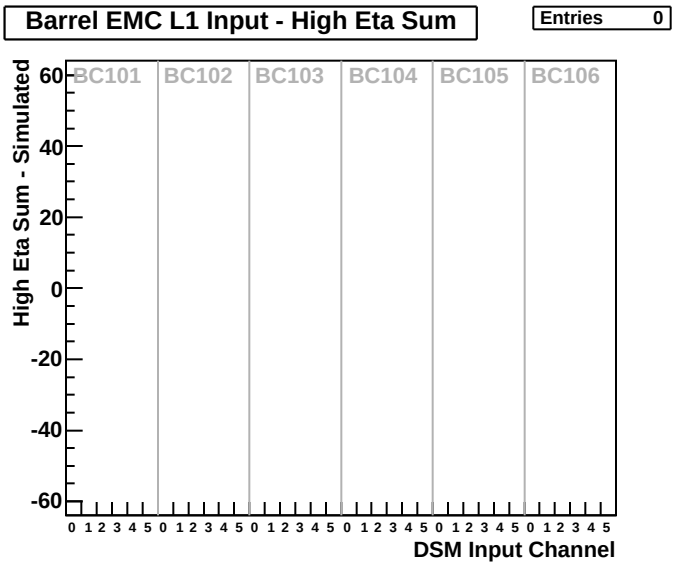
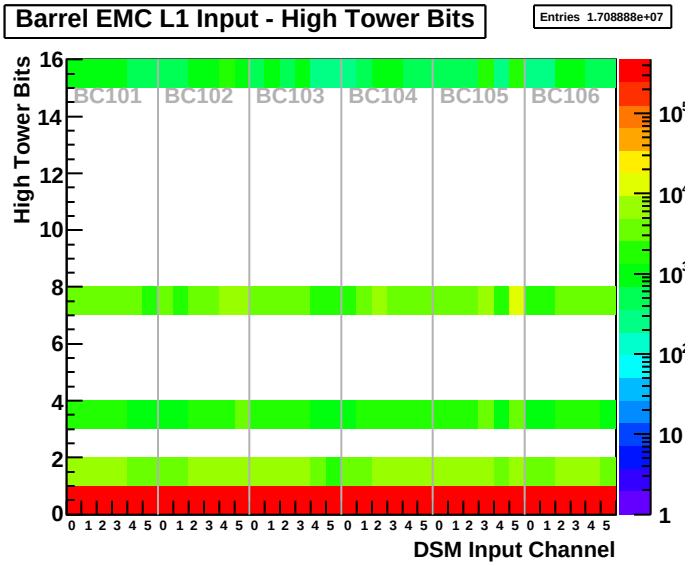
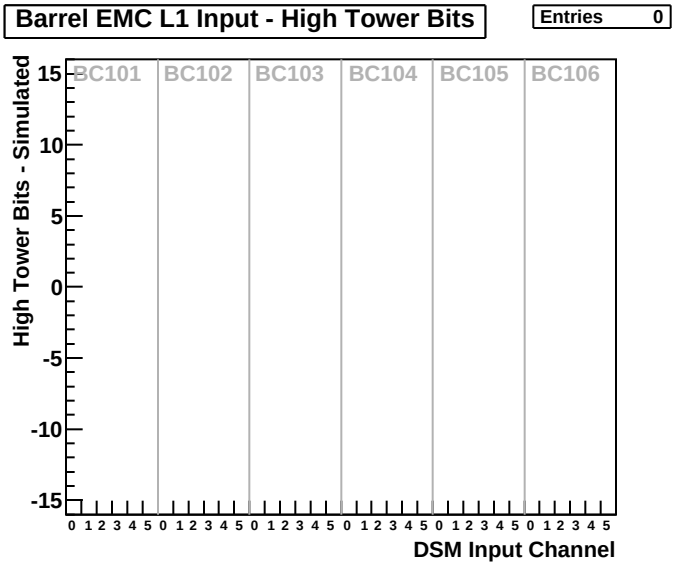

Barrel EMC L1 Input - Low Eta Sum
Entries 1.708888e+07
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

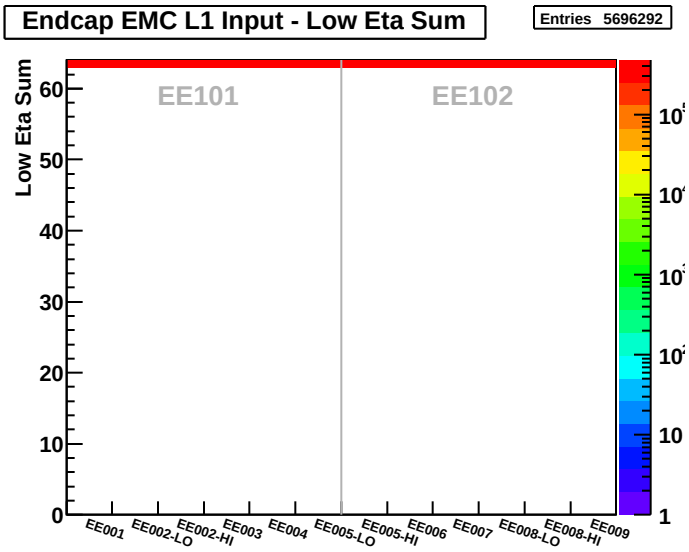

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

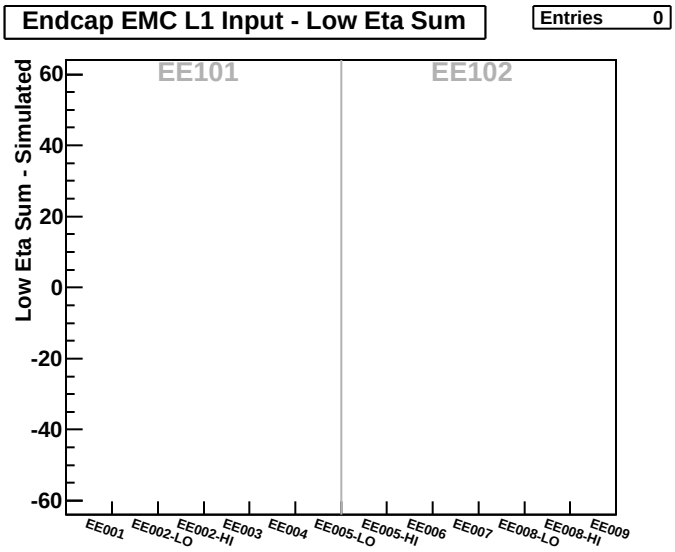

Barrel EMC L1 Input - High Eta Sum
Entries 1.708888e+07
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

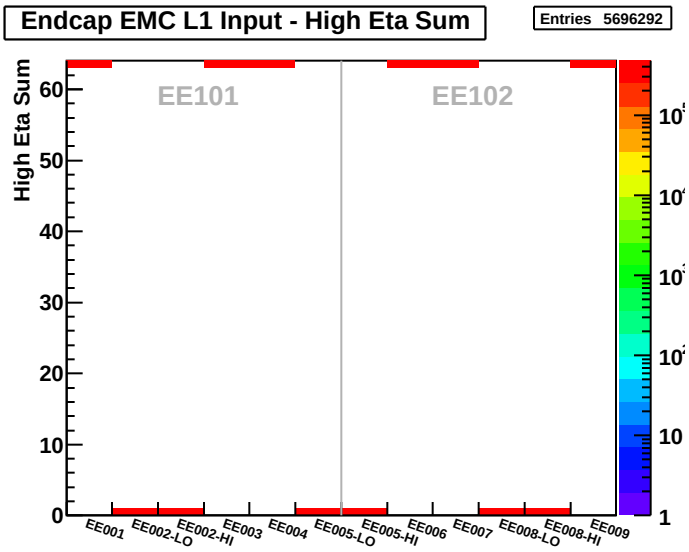

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

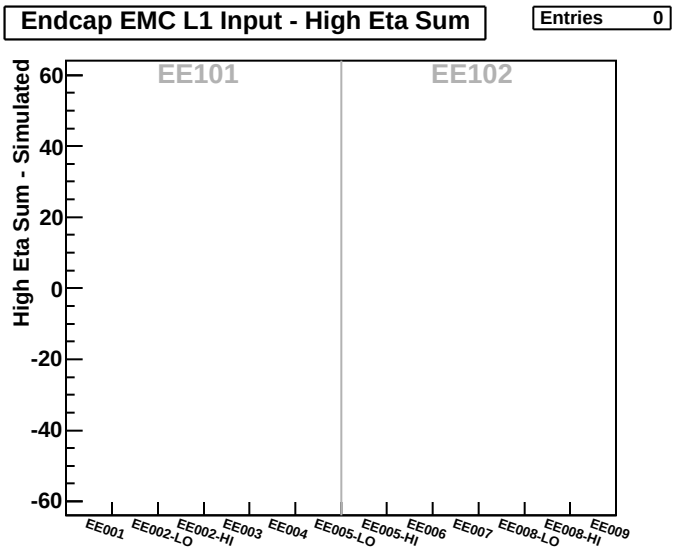

Barrel EMC L1 Input - High Tower Bits
Entries 1.708888e+07
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

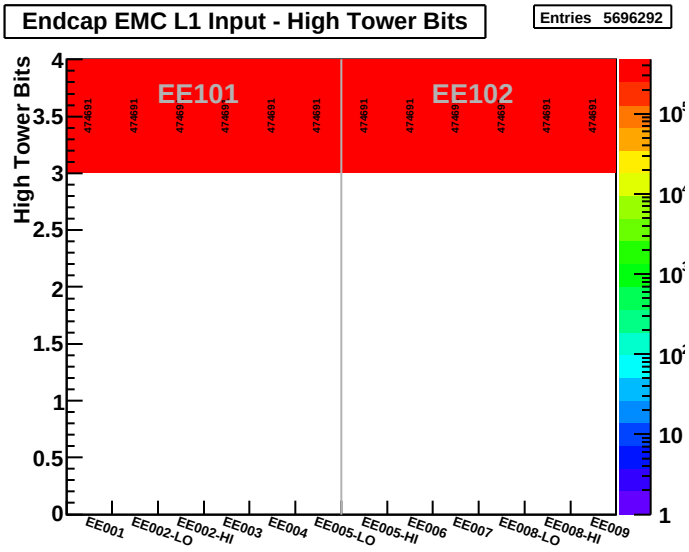

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

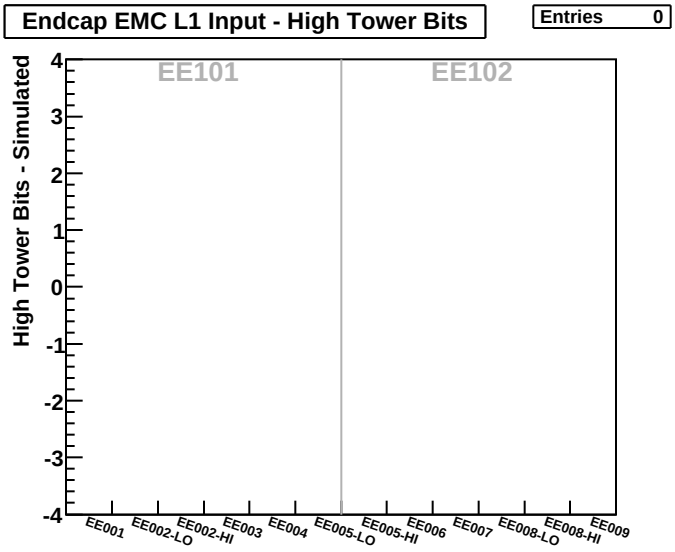

Endcap EMC L1 Input - Low Eta Sum
Entries 5696292
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

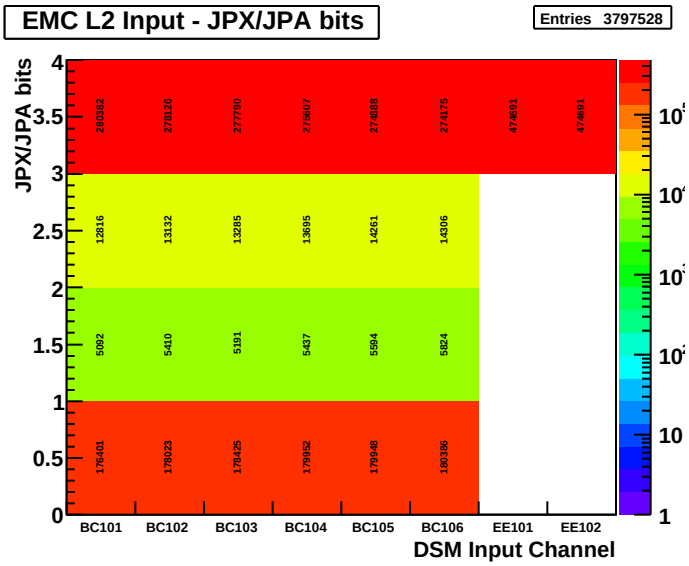

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

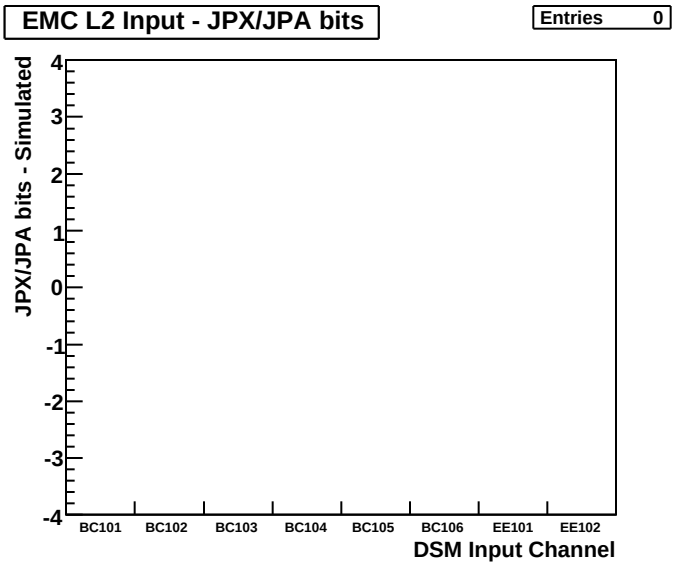

Endcap EMC L1 Input - High Eta Sum
Entries 5696292
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

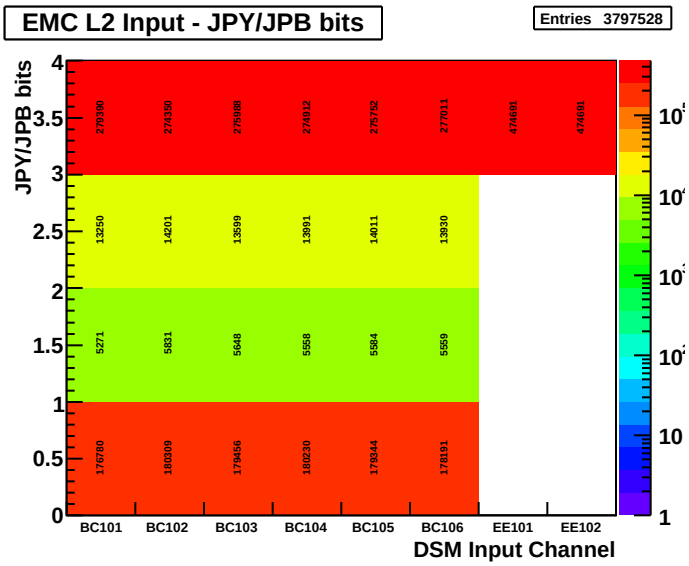

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

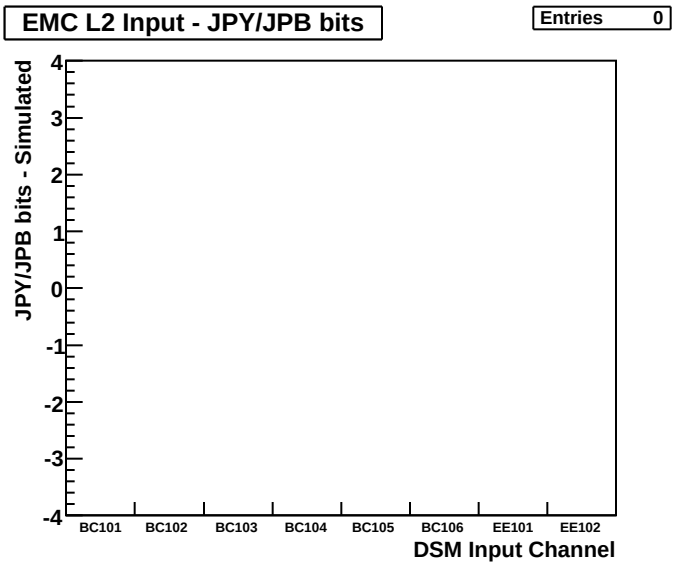

Endcap EMC L1 Input - High Tower Bits
Entries 5696292
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

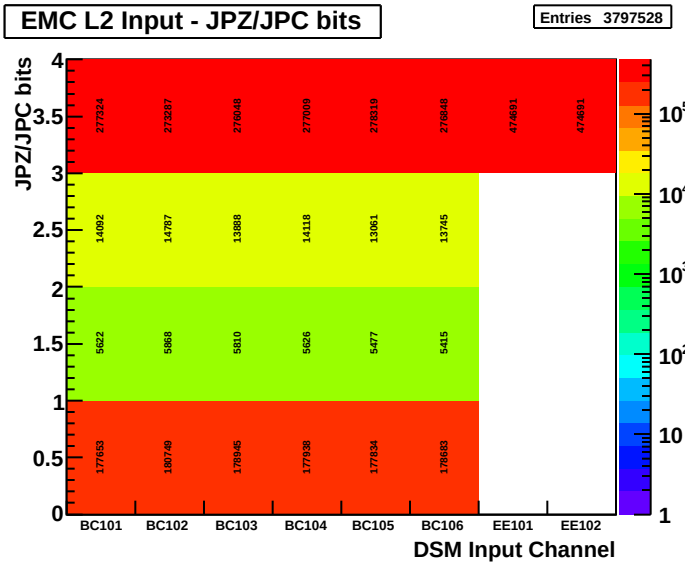

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

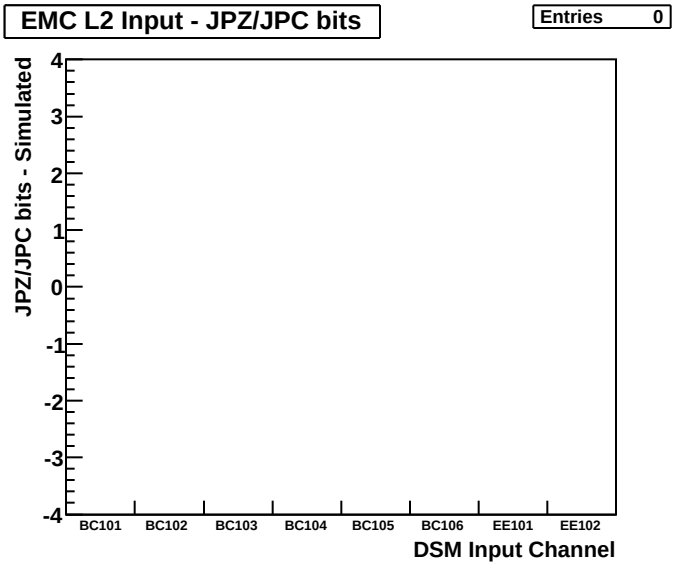

EMC L2 Input - JPX/JPA bits
Entries 3797528
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
280382 278126 277790 275607 274588 274175 474691 474691
12816 13132 13285 13695 14261 14306
5092 5410 5191 5437 5594 5824
176401 178023 178425 178952 179948 180386

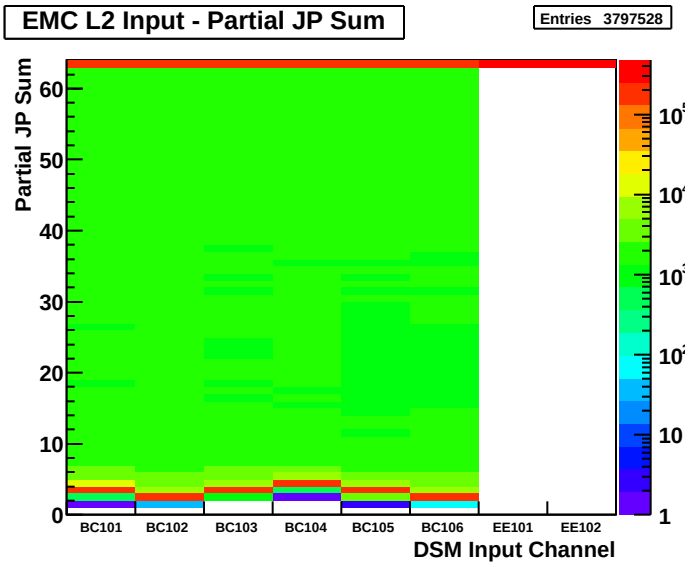

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

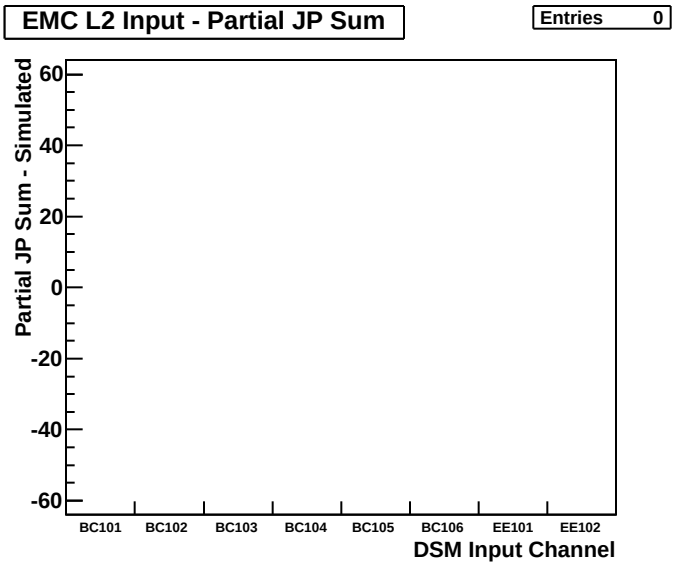

EMC L2 Input - JPY/JPB bits
Entries 3797528
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
279390 274350 275988 274912 275752 277011 474691 474691
13250 14201 13599 13991 14011 13930
5271 5831 5648 5558 5584 5559
176780 180309 179456 180230 179344 178191

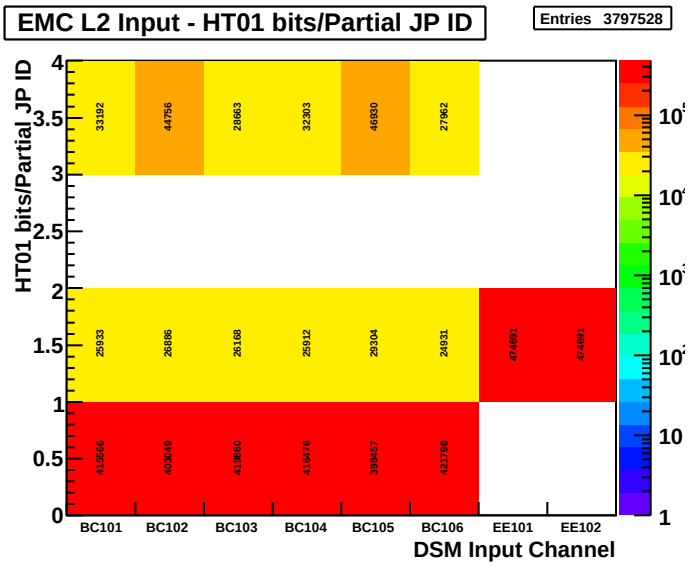

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

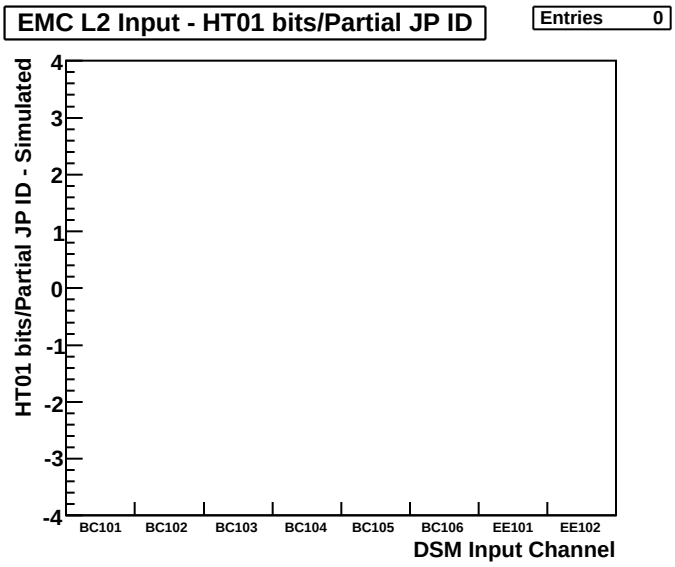

EMC L2 Input - JPZ/JPC bits
Entries 3797528
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
277524 272287 276048 277009 278319 278848 474691 474691
14092 14787 13888 14118 13061 13745
5622 5868 5810 5626 5477 5415
177653 180749 178945 177938 177834 178683

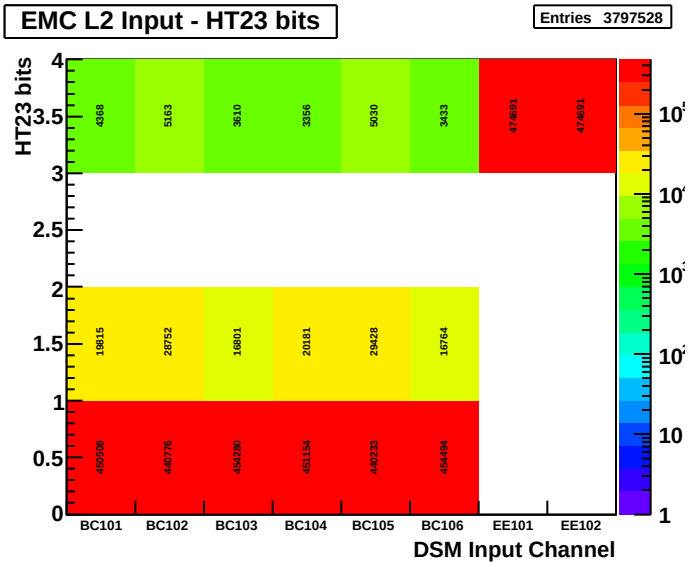

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

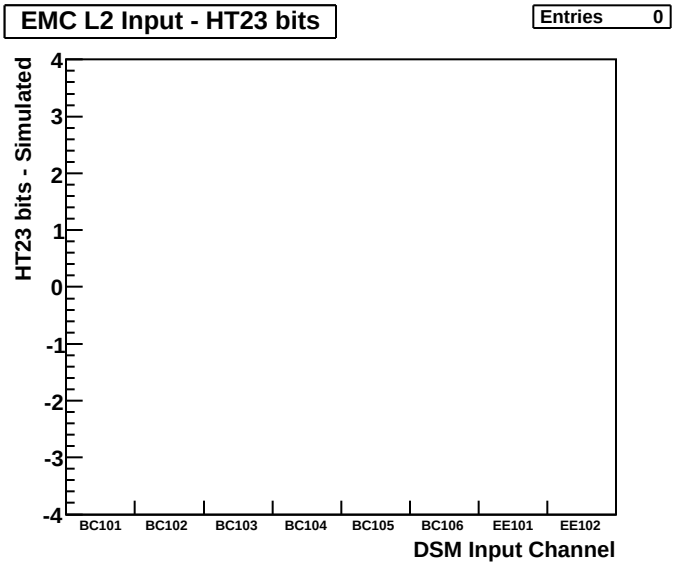

EMC L2 Input - Partial JP Sum
Entries 3797528
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

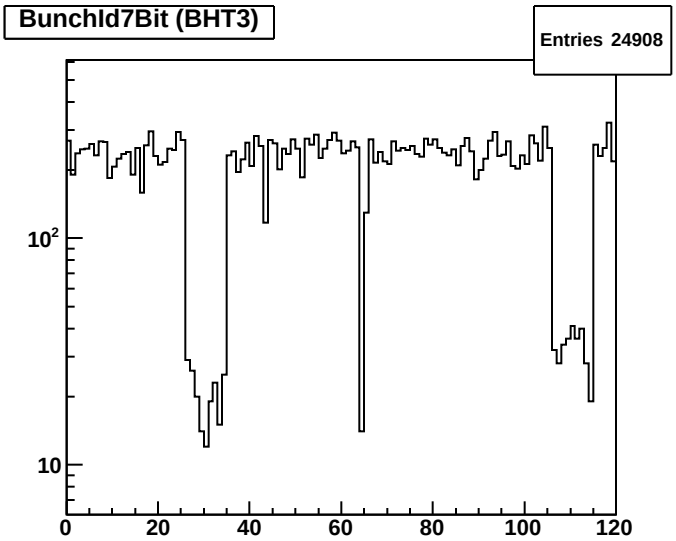

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

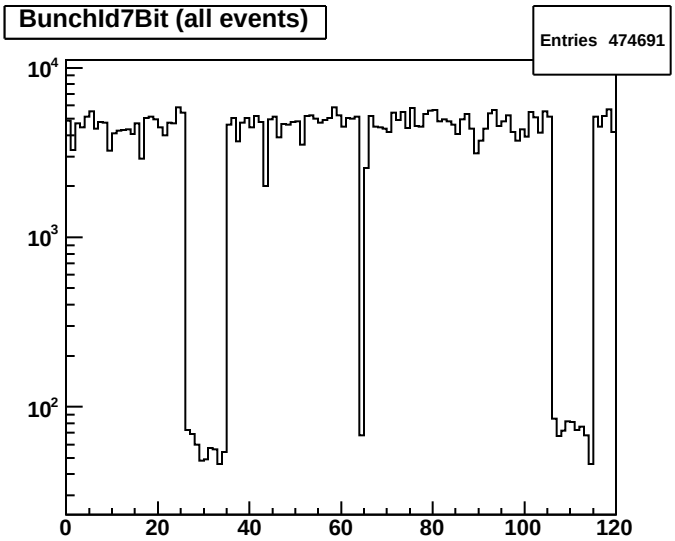

EMC L2 Input - HT01 bits/Partial JP ID
Entries 3797528
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

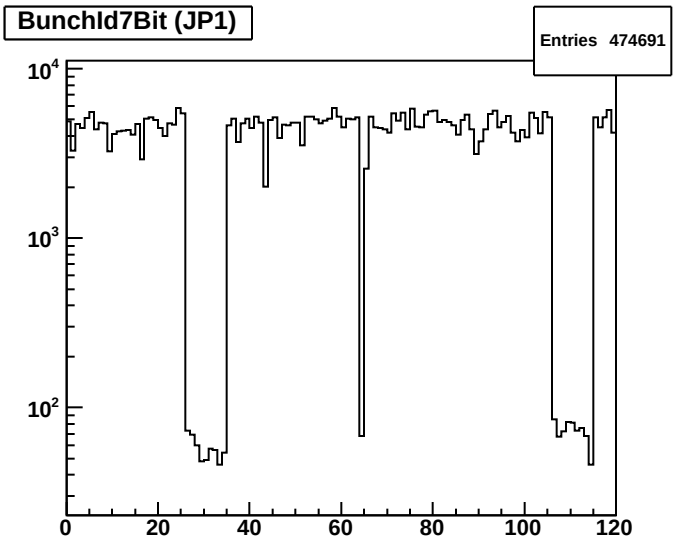

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

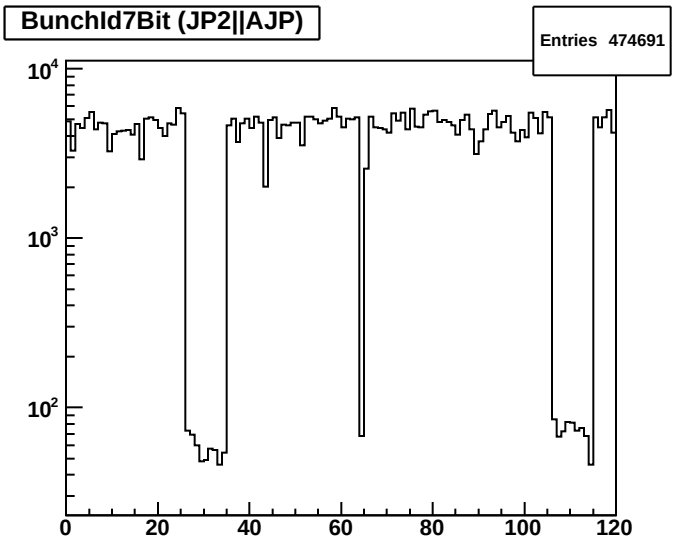

EMC L2 Input - HT23 bits
Entries 3797528
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

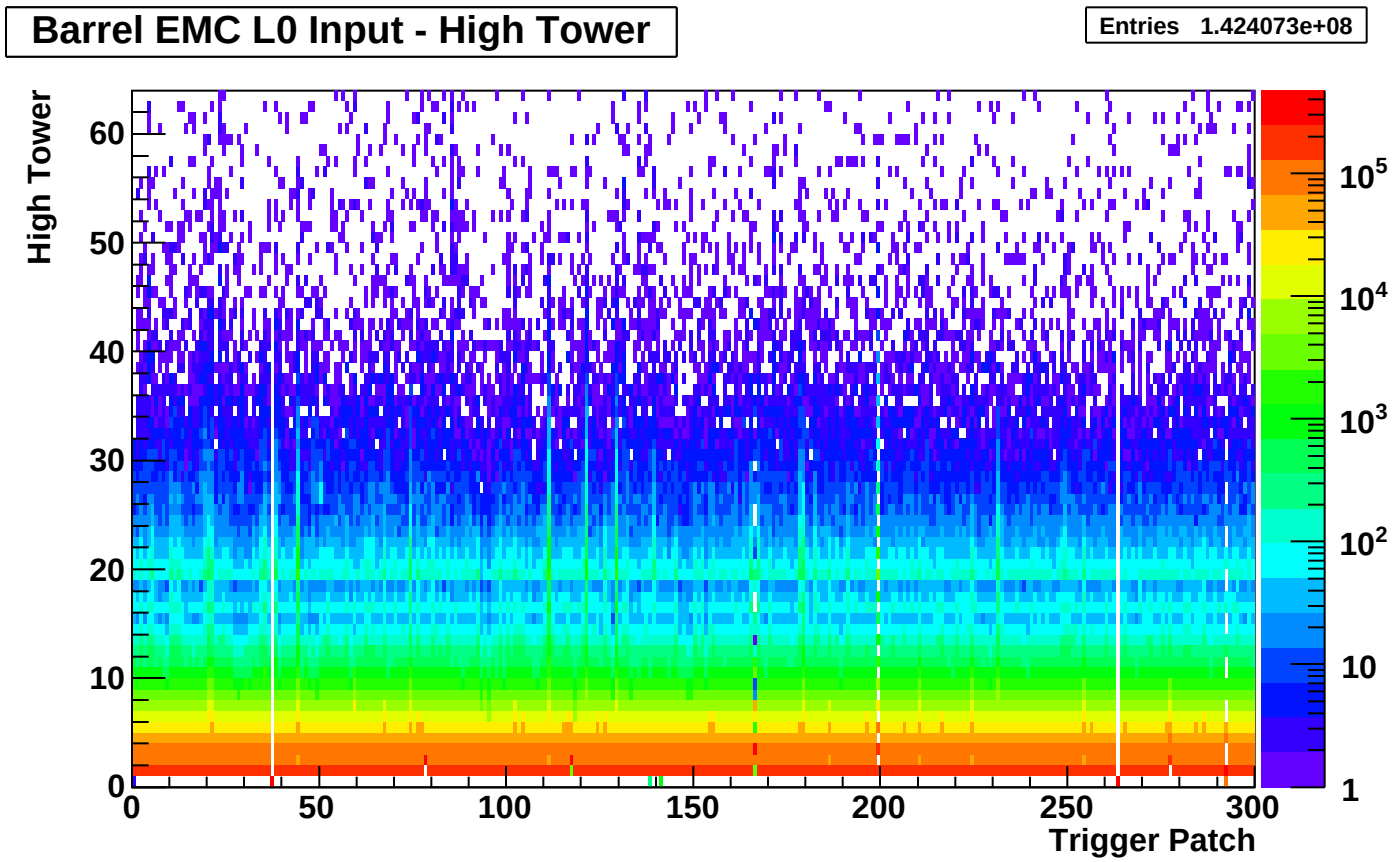

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

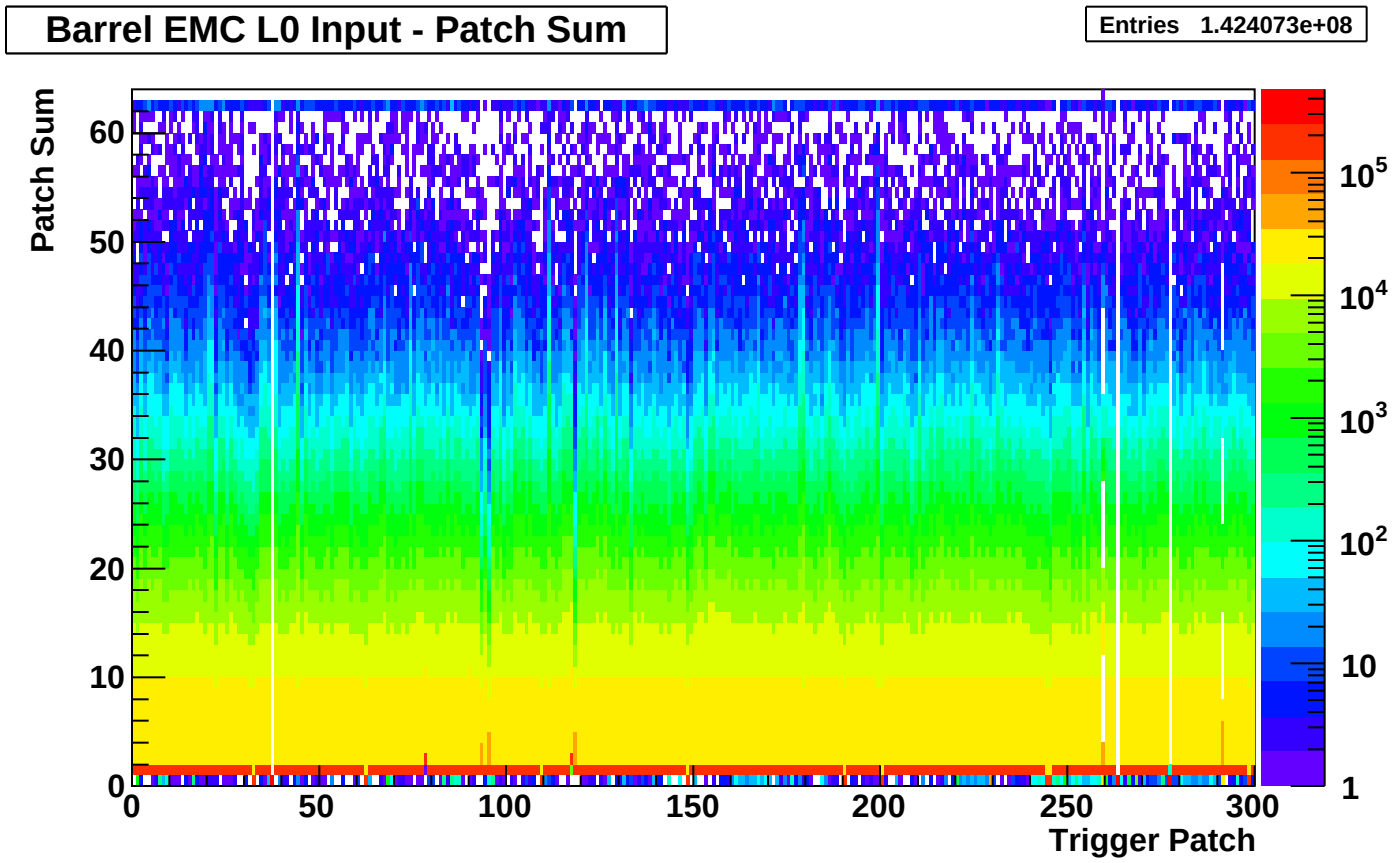

BunchId7Bit (BHT3)
Entries 24908
10^2
10
0
20
40
60
80
100
120

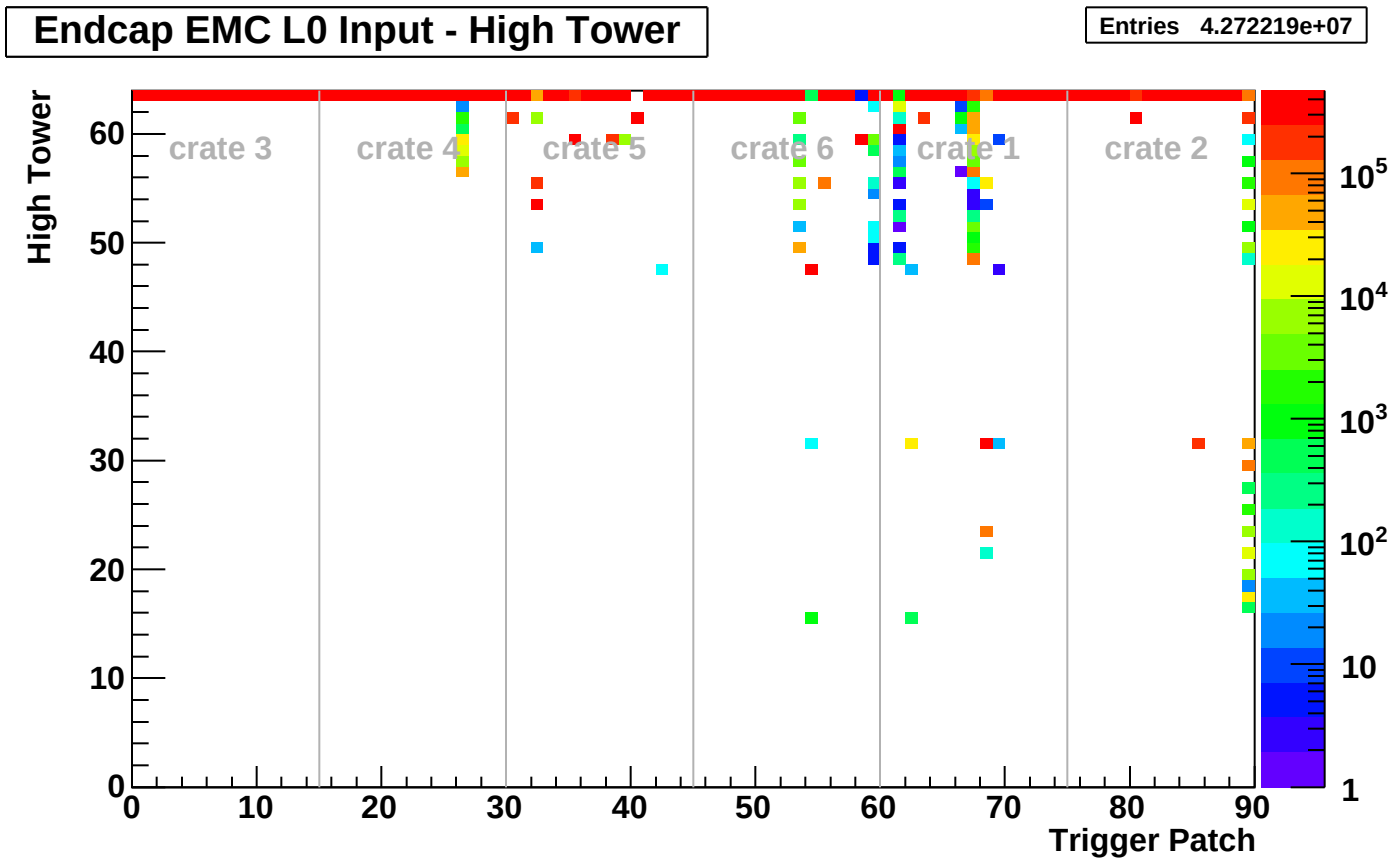

BunchId7Bit (all events)
Entries 474691
10^4
10^3
10^2
0
20
40
60
80
100
120

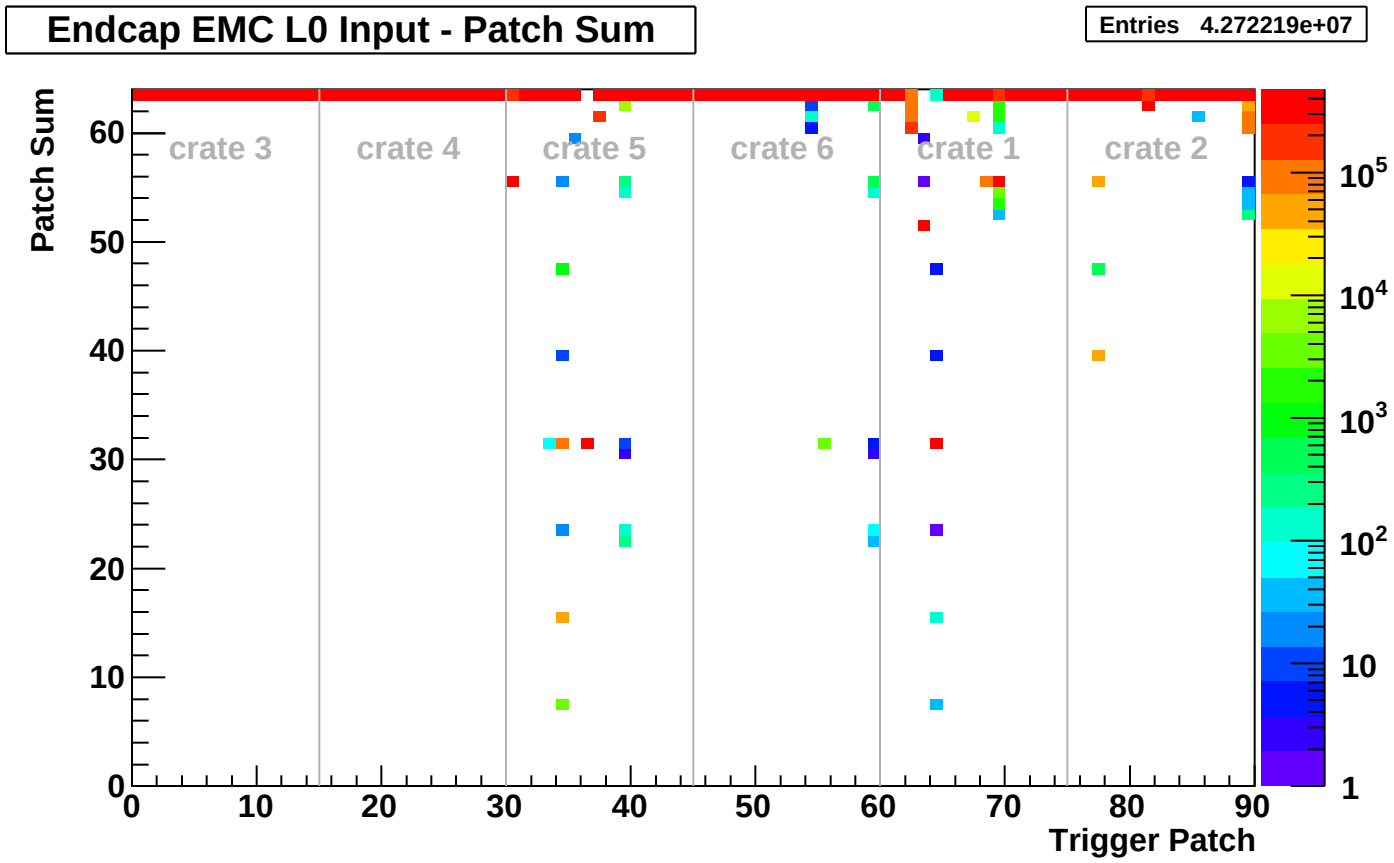

BunchId7Bit (JP1)
Entries 474691
10^4
10^3
10^2
0
20
40
60
80
100
120

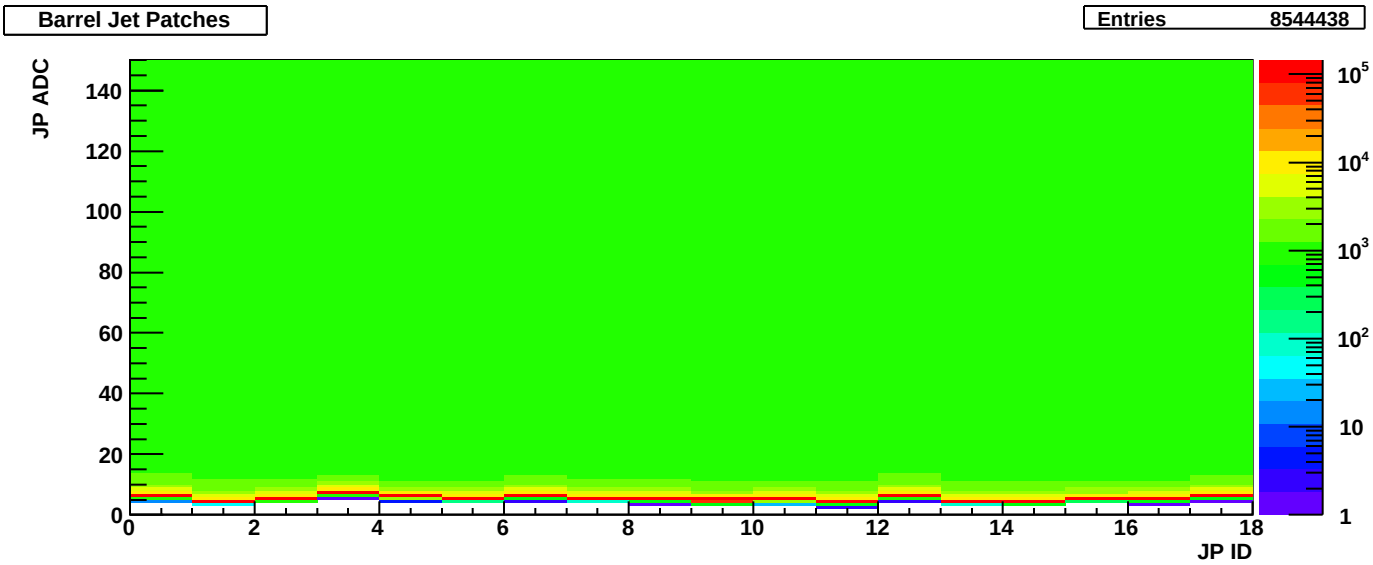

BunchId7Bit (JP2||AJP)
Entries 474691
10^4
10^3
10^2
0
20
40
60
80
100
120

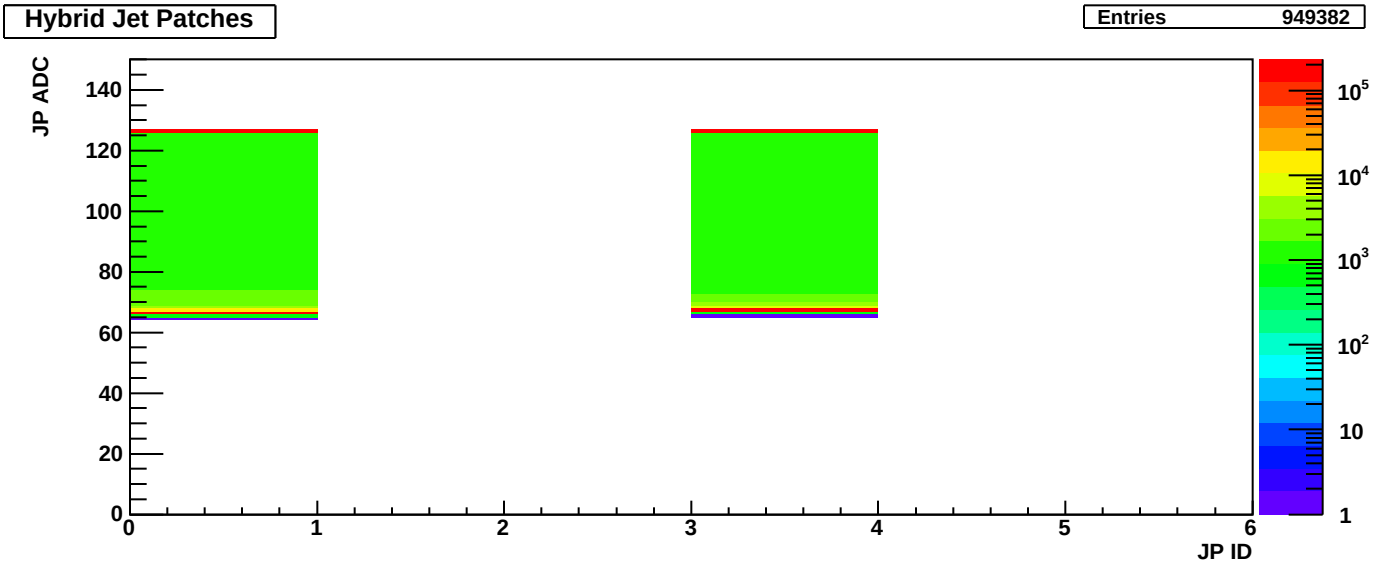

Barrel EMC L0 Input - High Tower
Entries 1.424073e+08
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

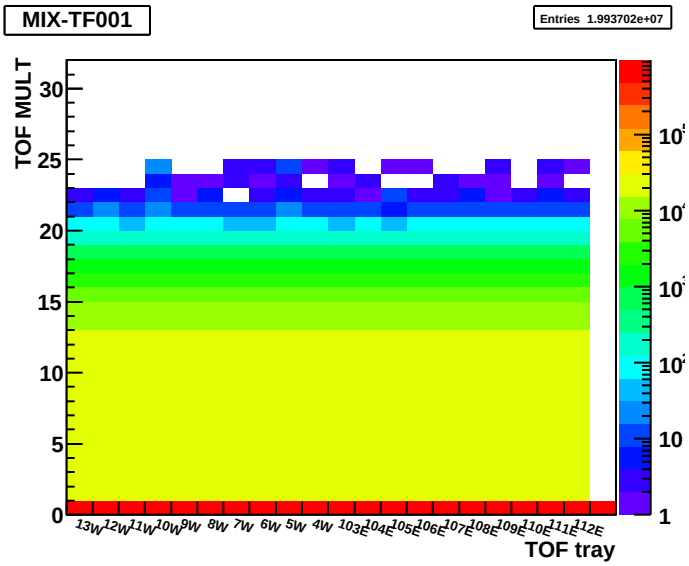

Barrel EMC L0 Input - Patch Sum
Entries 1.424073e+08
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

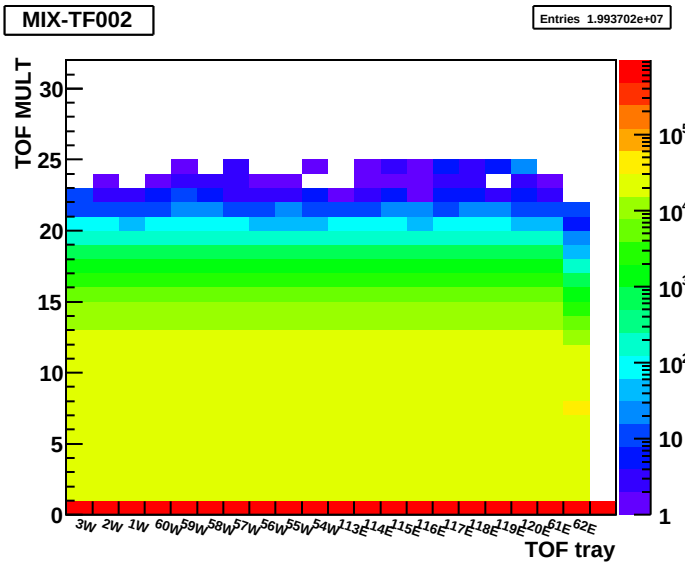

Endcap EMC L0 Input - High Tower
Entries 4.272219e+07
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

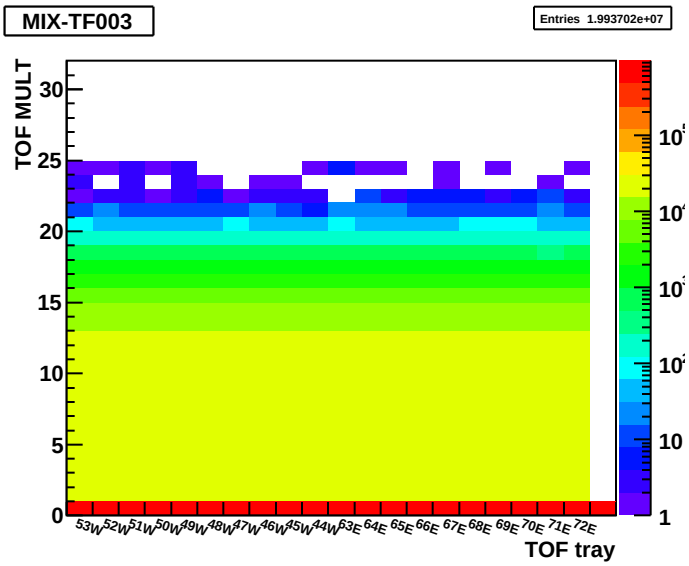

Endcap EMC L0 Input - Patch Sum
Entries 4.272219e+07
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

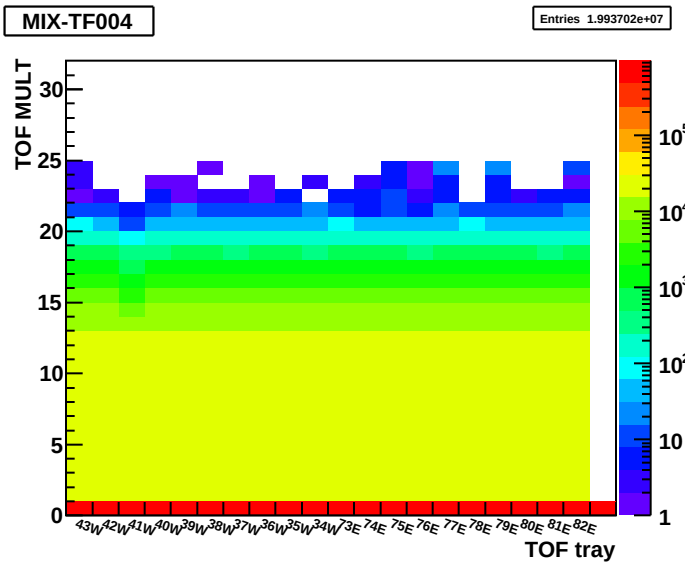

Barrel Jet Patches
Entries 8544438
JP ADC
JP ID

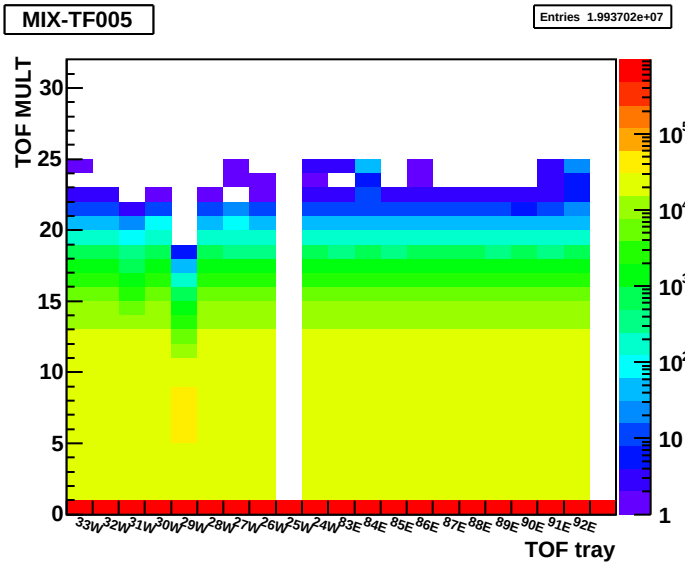

Hybrid Jet Patches
Entries 949382
JP ADC
JP ID

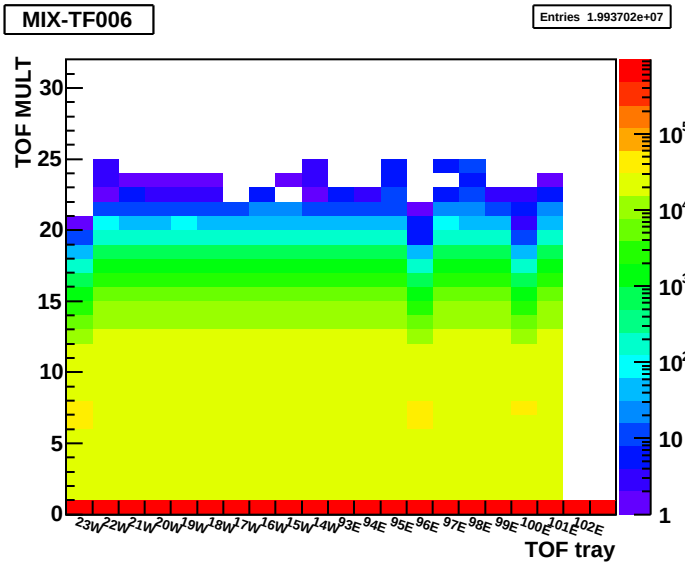

MIX-TF001
Entries 1.993702e+07
TOF MULT
TOF tray

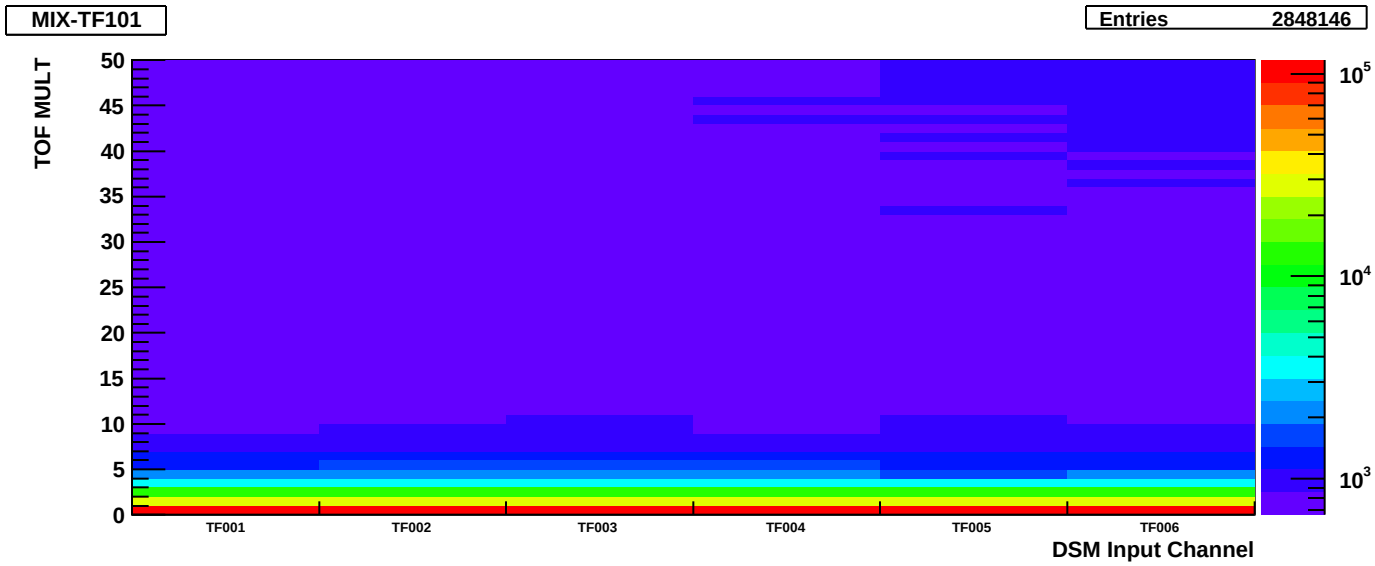

MIX-TF002
Entries 1.993702e+07
TOF MULT
TOF tray

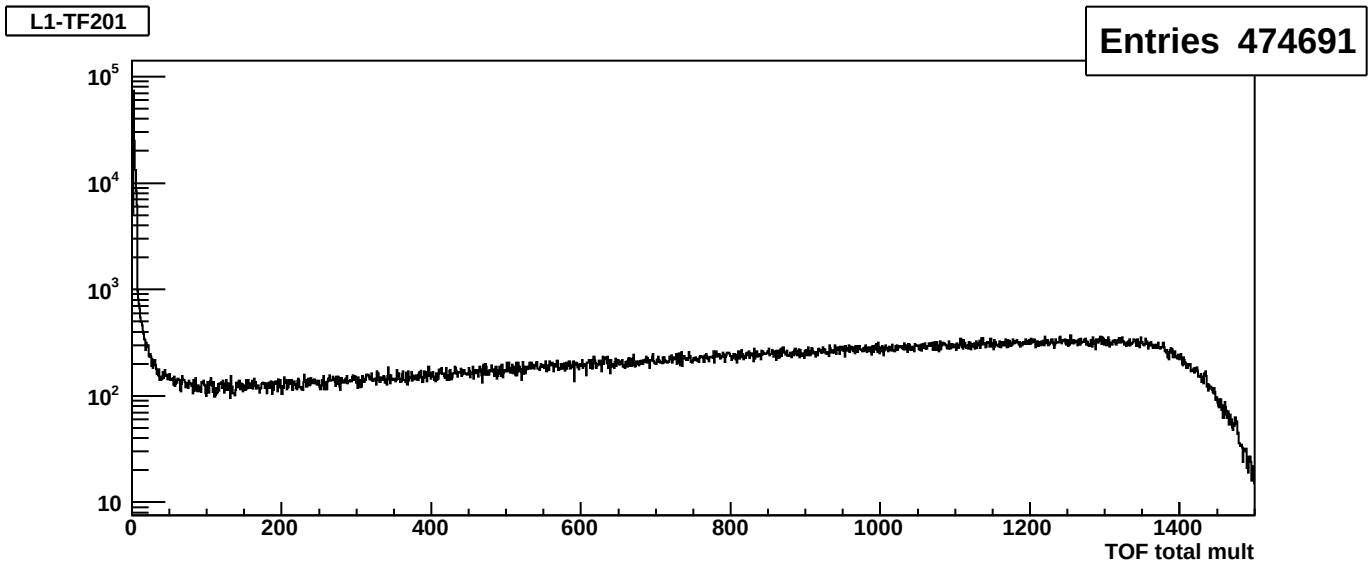

MIX-TF003
Entries 1.993702e+07
TOF MULT
TOF tray

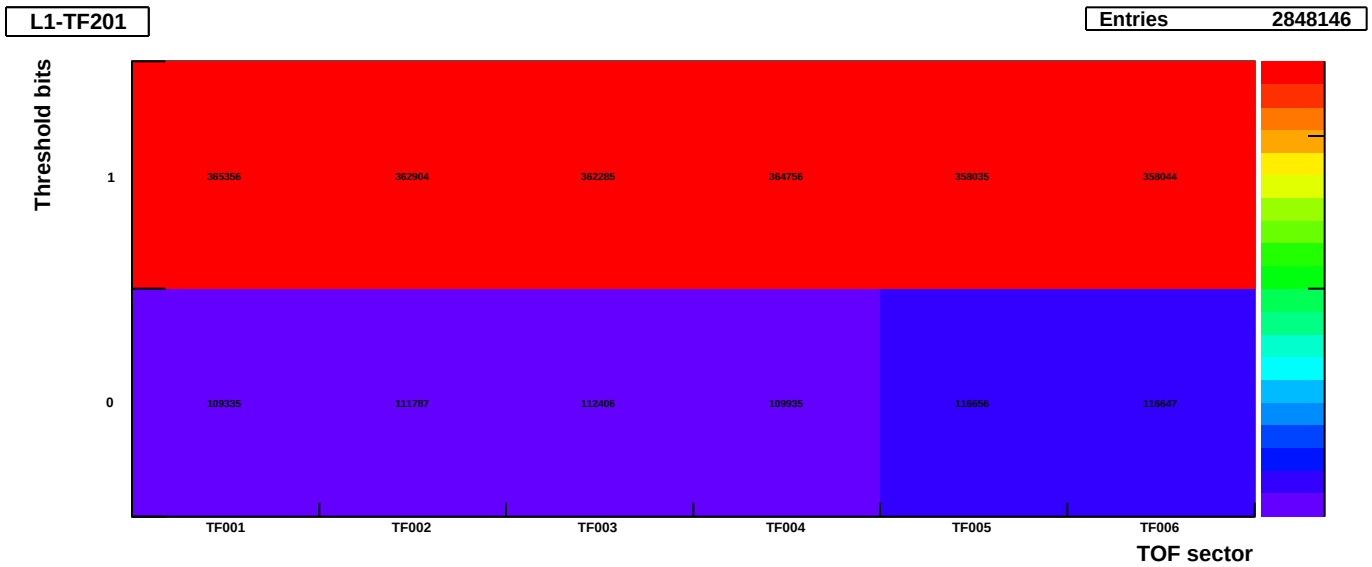

MIX-TF004
Entries 1.993702e+07
TOF MULT
TOF tray

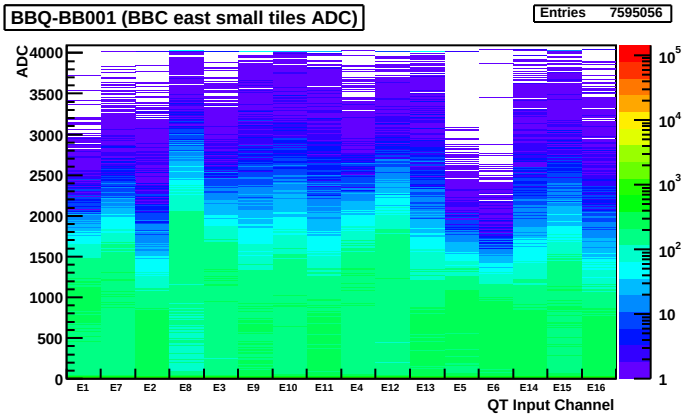

MIX-TF005
Entries 1.993702e+07
TOF MULT
TOF tray

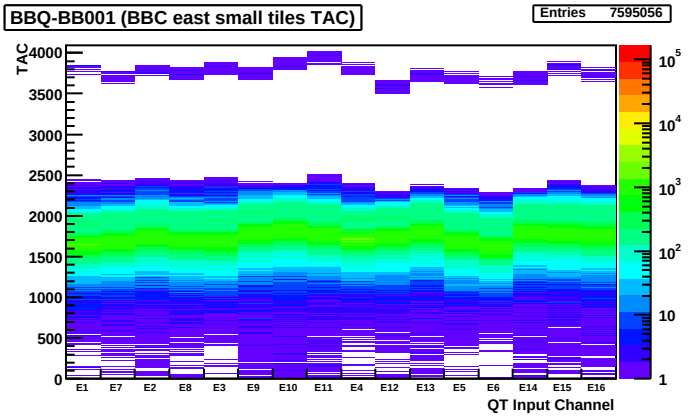

MIX-TF006
Entries 1.993702e+07
TOF MULT
TOF tray

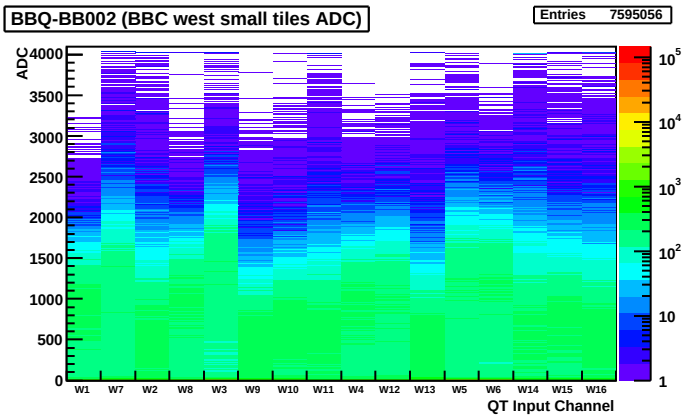

MIX-TF101
Entries 2848146
TOF MULT
50
45
40
35
30
25
20
15
10
5
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^5
10^4
10^3

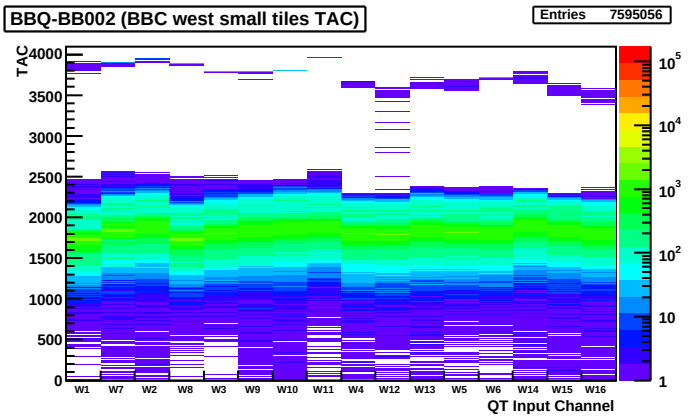

L1-TF201
Entries 474691
10^5
10^4
10^3
10^2
10
0
200
400
600
800
1000
1200
1400
TOF total mult

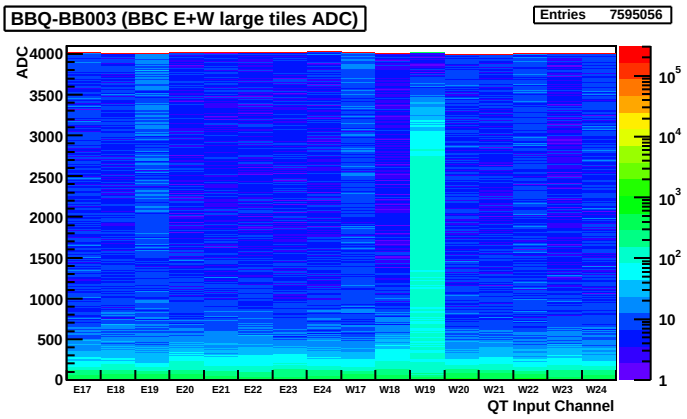

L1-TF201
Entries 2848146
Threshold bits
1
0
365356
362904
362285
364756
358035
358044
109335
111787
112406
109935
116656
116647
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector

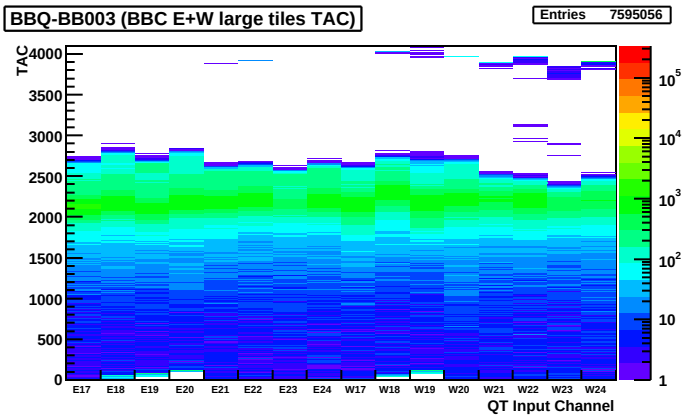

BBQ-BB001 (BBC east small tiles ADC)
Entries 7595056
ADC
QT Input Channel

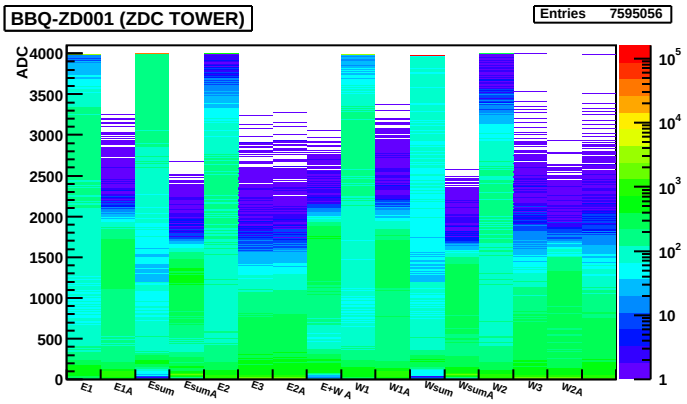

BBQ-BB001 (BBC east small tiles TAC)
Entries 7595056
TAC
QT Input Channel

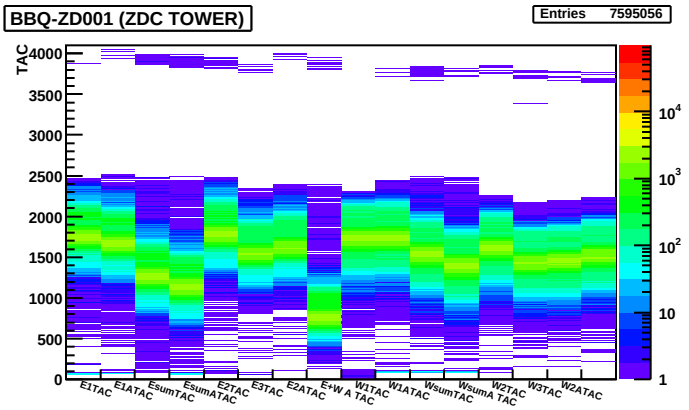

BBQ-BB002 (BBC west small tiles ADC)
Entries 7595056
ADC
QT Input Channel

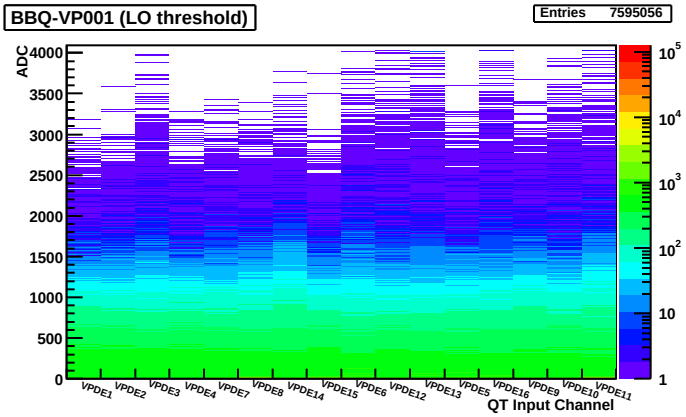

BBQ-BB002 (BBC west small tiles TAC)
Entries 7595056
TAC
QT Input Channel

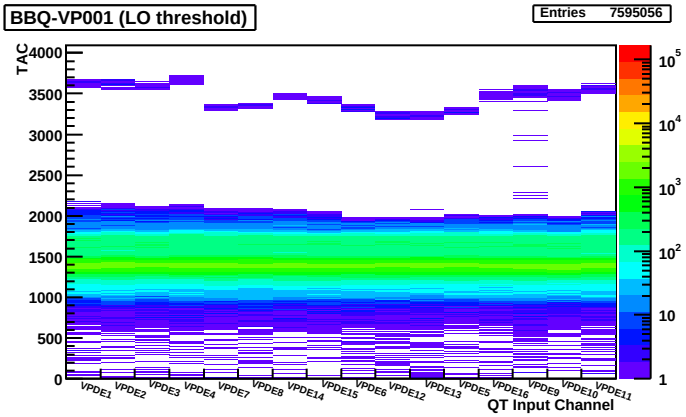

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 7595056
ADC
QT Input Channel

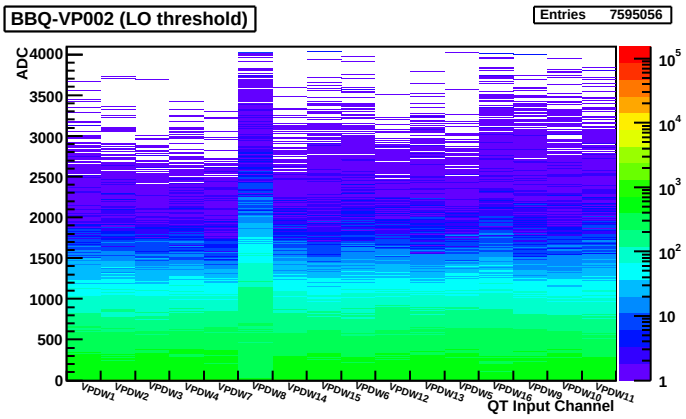

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 7595056
TAC
QT Input Channel

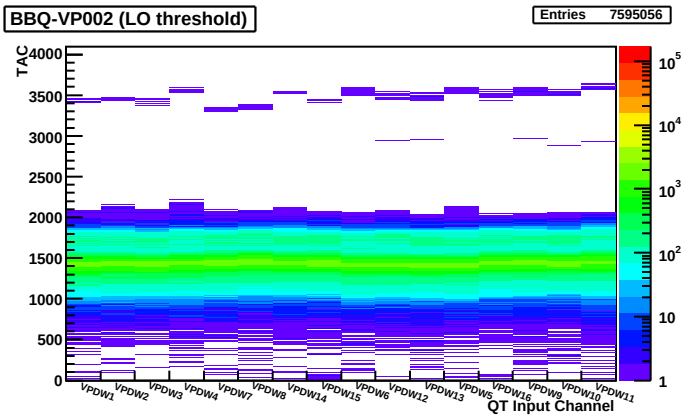

BBQ-ZD001 (ZDC TOWER)
Entries 7595056
ADC

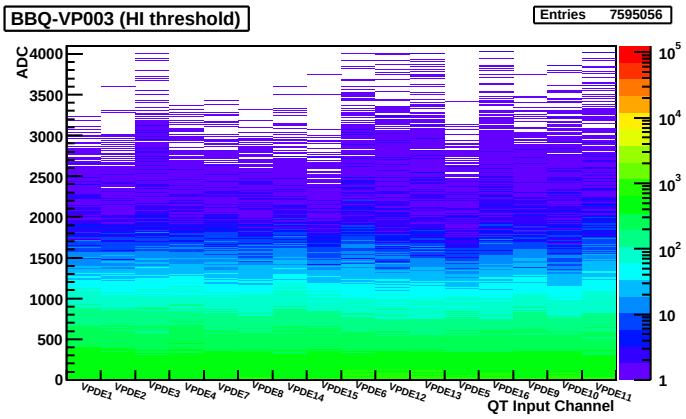

BBQ-ZD001 (ZDC TOWER)
Entries 7595056
TAC

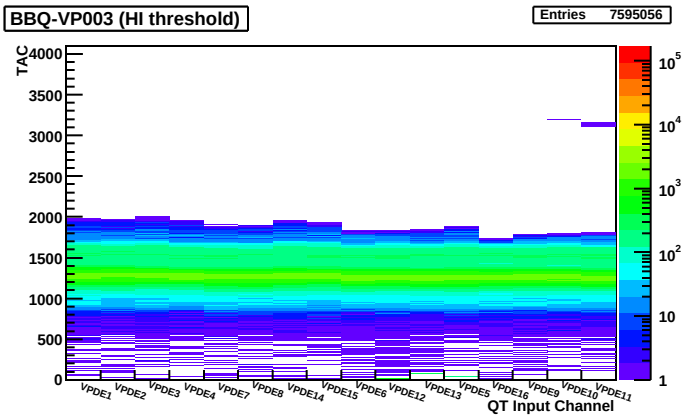

BBQ-VP001 (LO threshold)
Entries 7595056
ADC
QT Input Channel

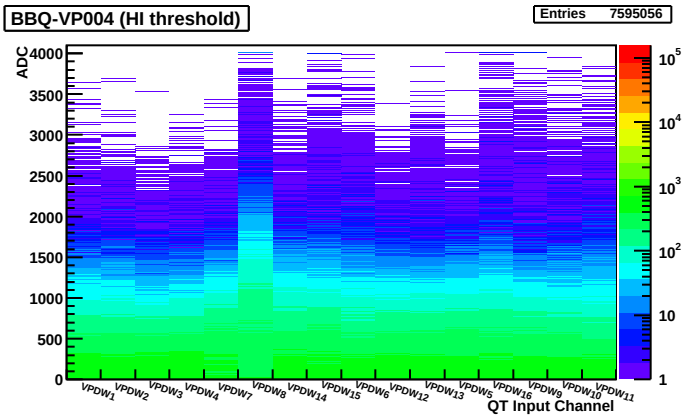

BBQ-VP001 (LO threshold)
Entries 7595056
TAC
QT Input Channel

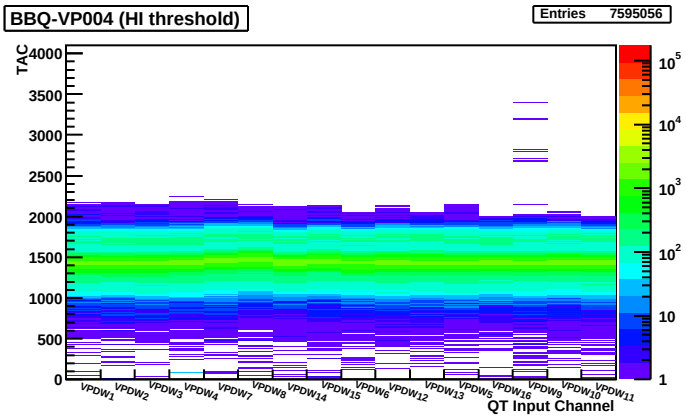

BBQ-VP002 (LO threshold)
Entries 7595056
ADC
QT Input Channel

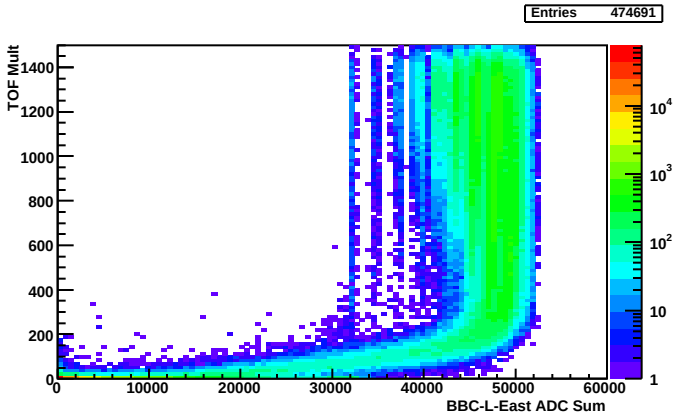

BBQ-VP002 (LO threshold)
Entries 7595056
TAC
QT Input Channel

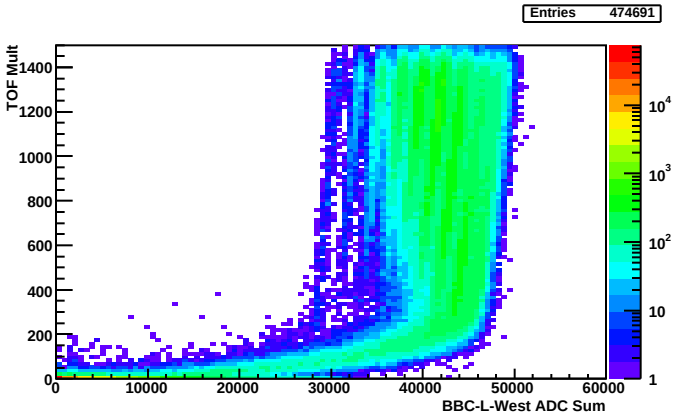

BBQ-VP003 (HI threshold)
Entries 7595056
ADC
QT Input Channel

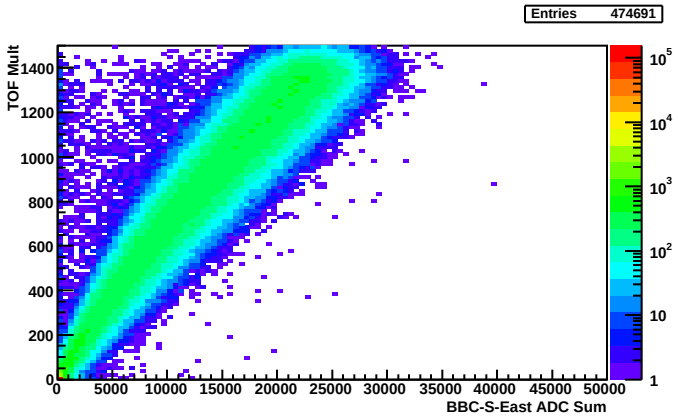

BBQ-VP003 (HI threshold)
Entries 7595056
TAC
QT Input Channel

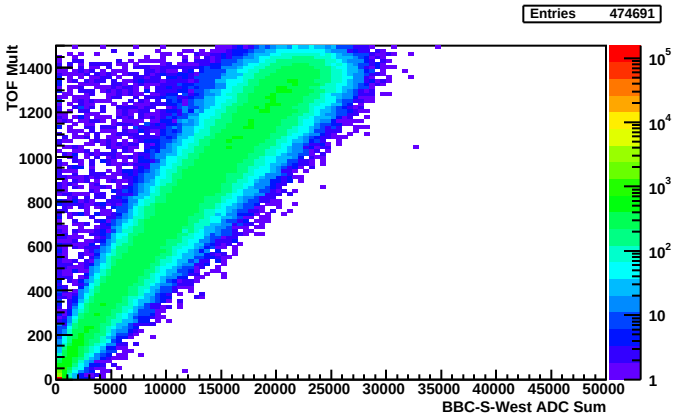

BBQ-VP004 (HI threshold)
Entries 7595056
ADC
QT Input Channel

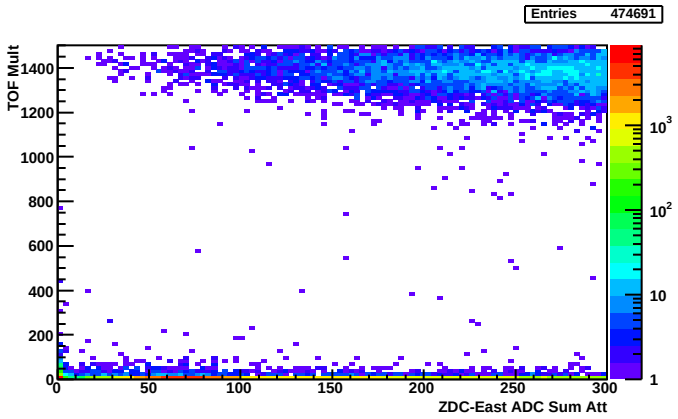

BBQ-VP004 (HI threshold)
Entries 7595056
TAC
QT Input Channel

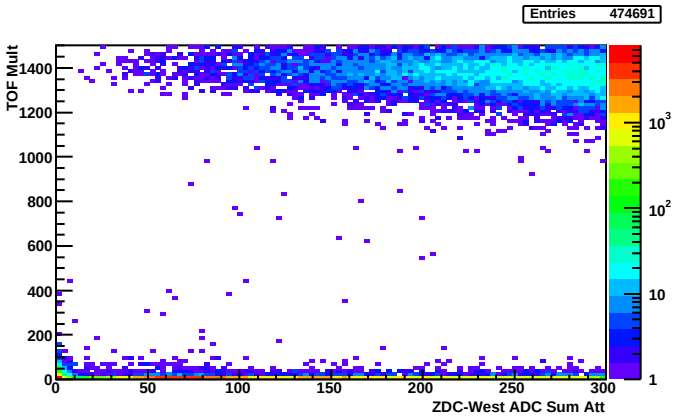

Entries 474691
TOF Mult
BBC-L-East ADC Sum

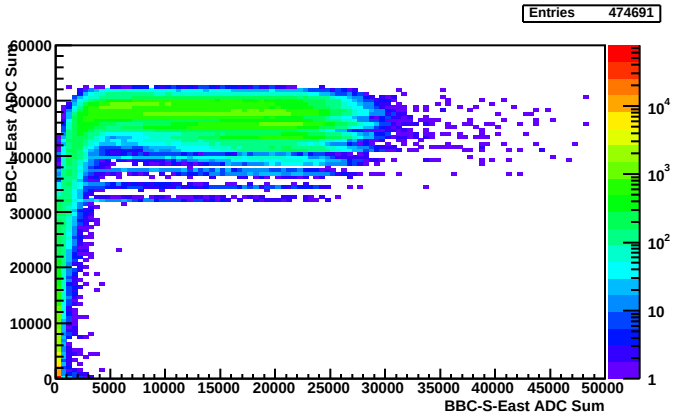

Entries 474691
TOF Mult
BBC-L-West ADC Sum

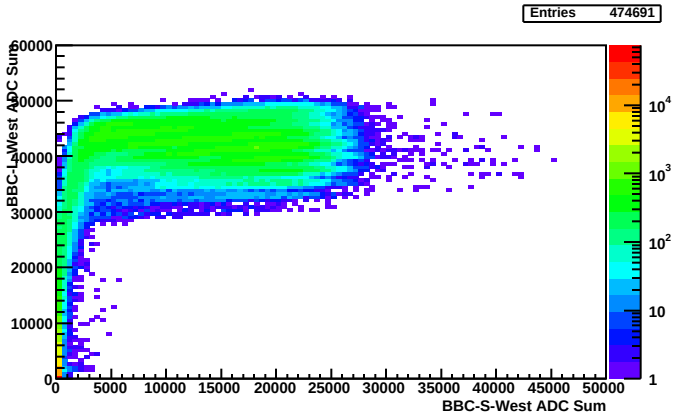

Entries 474691
TOF Mult
BBC-S-East ADC Sum

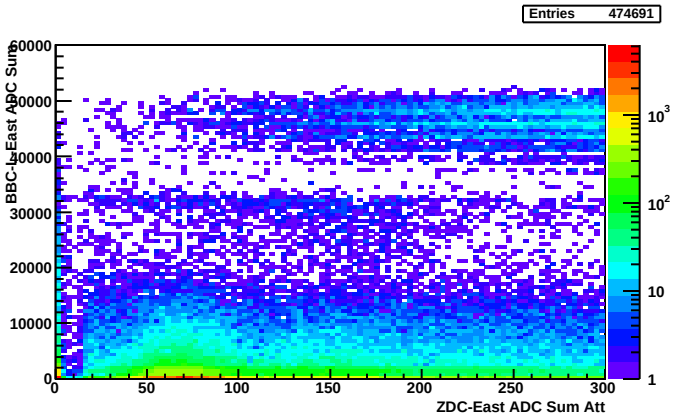

Entries 474691
TOF Mult
BBC-S-West ADC Sum


Entries 474691
TOF Mult
ZDC-East ADC Sum Att


Entries 474691
TOF Mult
ZDC-West ADC Sum Att


Entries 474691
BBC-L-East ADC Sum
BBC-S-East ADC Sum


Entries 474691
BBC-L-West ADC Sum
BBC-S-West ADC Sum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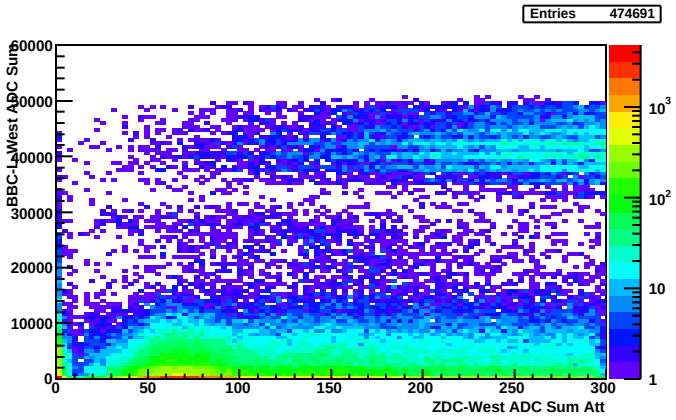
BBC-L-East ADC Sum
ZDC-East ADC Sum Att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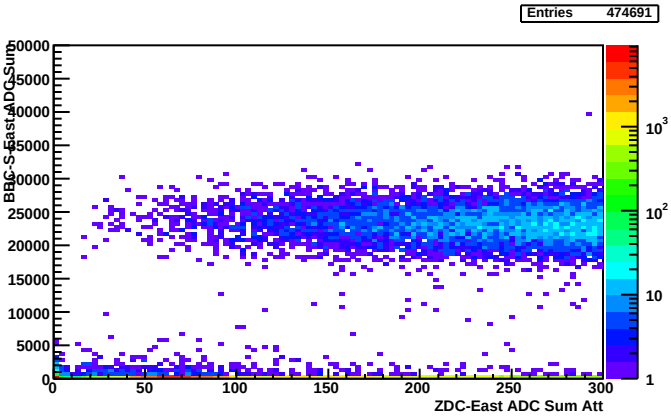
BBC-L-West ADC Sum
ZDC-West ADC Sum Att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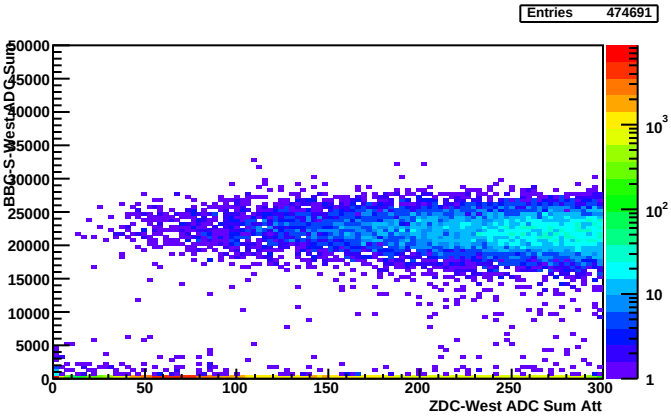
BBC-S-East ADC Sum
ZDC-East ADC Sum Att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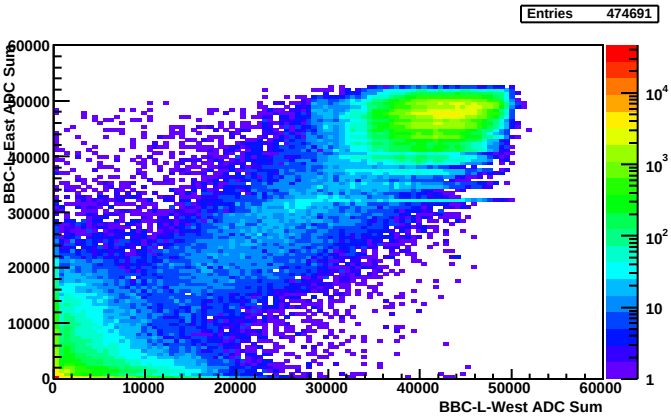
ZDC-West ADC Sum Att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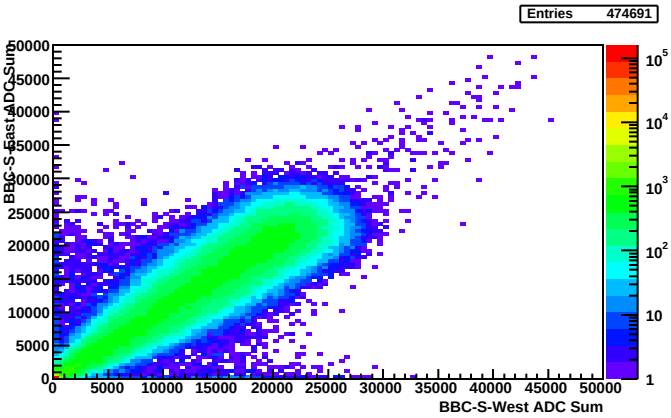
BBC-L-East ADC Sum
BBC-L-West ADC Sum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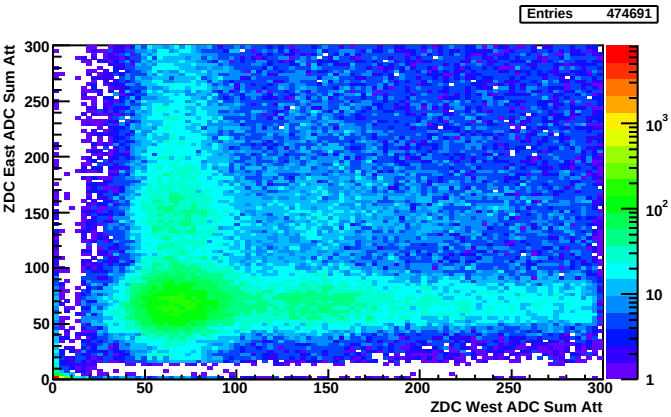
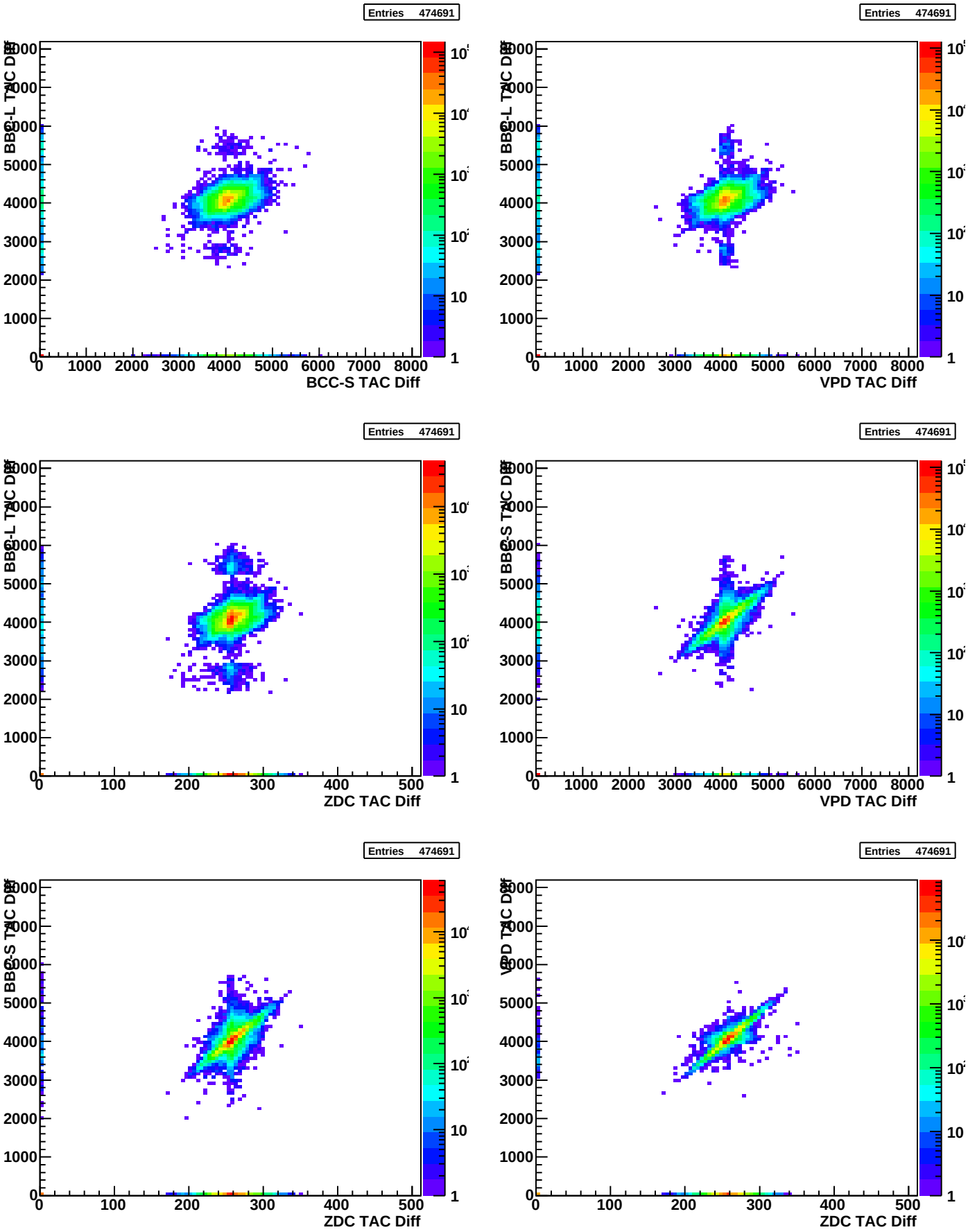
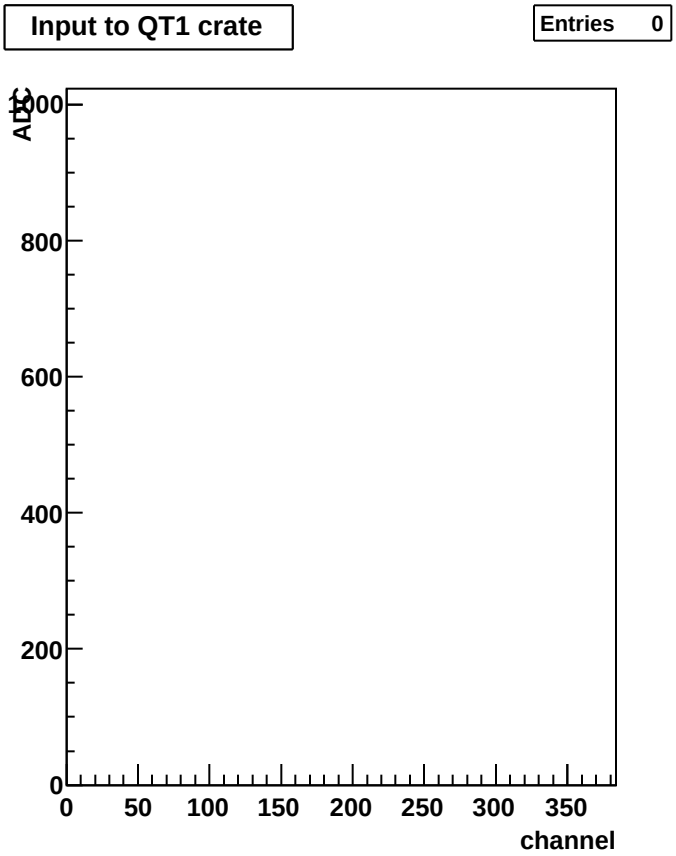
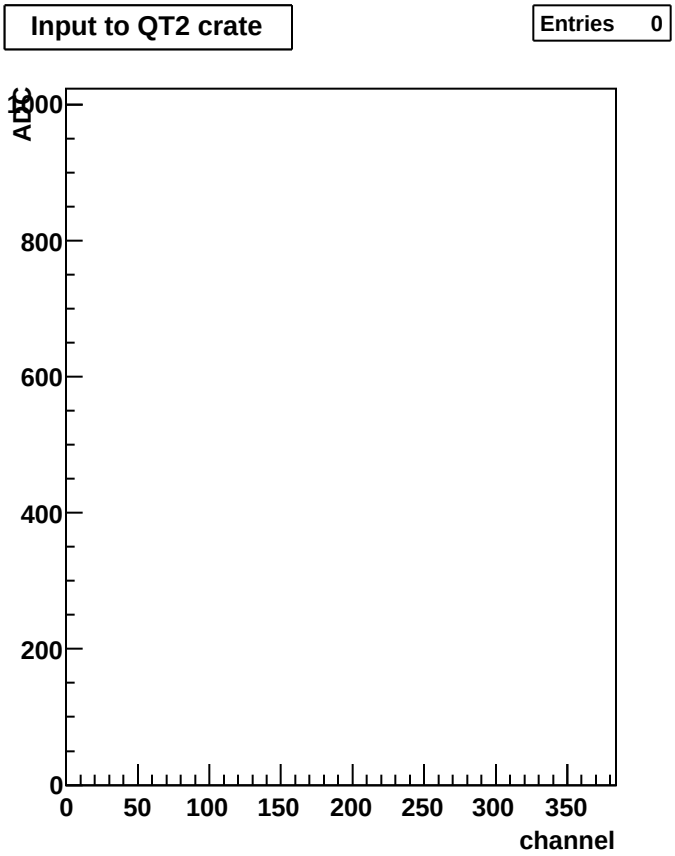
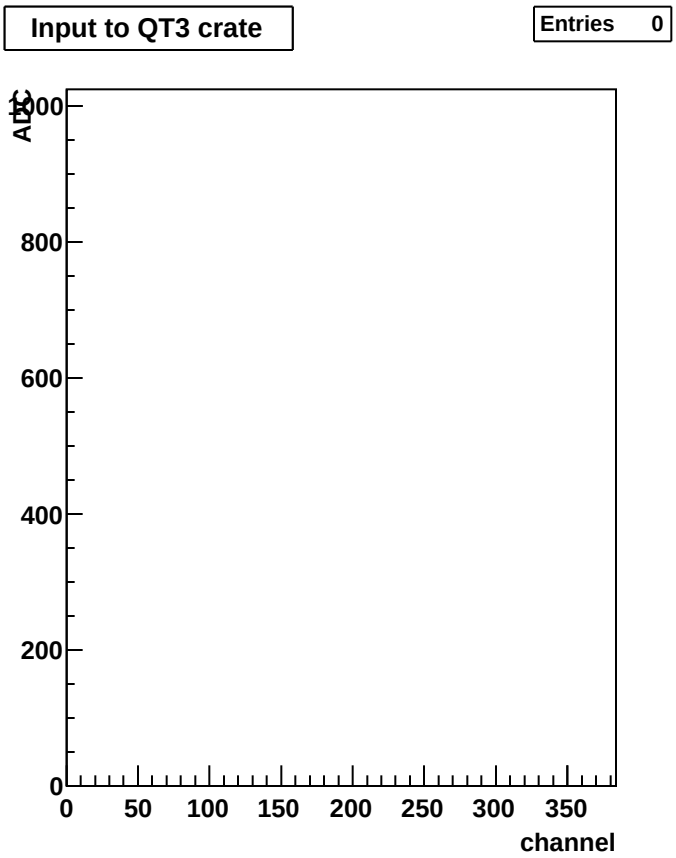
BBC-S-East ADC Sum
BBC-S-West ADC Sum

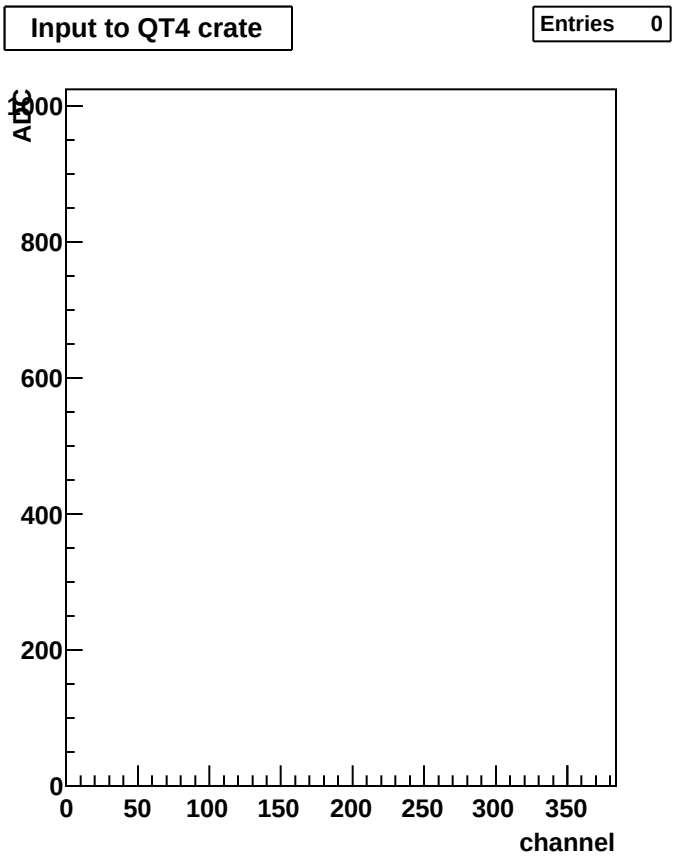

Entries 474691
ZDC East ADC Sum Att
ZDC West ADC Sum Att

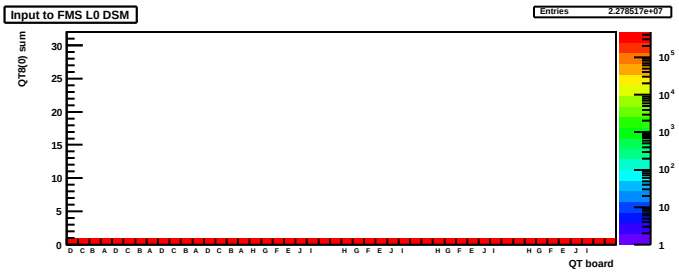

Entries 474691
BBC-L TAC Diff
BCC-S TAC Diff
Entries 474691
BBC-L TAC Diff
VPD TAC Diff
Entries 474691
BBC-L TAC Diff
ZDC TAC Diff
Entries 474691
BBC-S TAC Diff
VPD TAC Diff
Entries 474691
BBC-S TAC Diff
ZDC TAC Diff
Entries 474691
VPD TAC Diff
ZDC TAC Diff

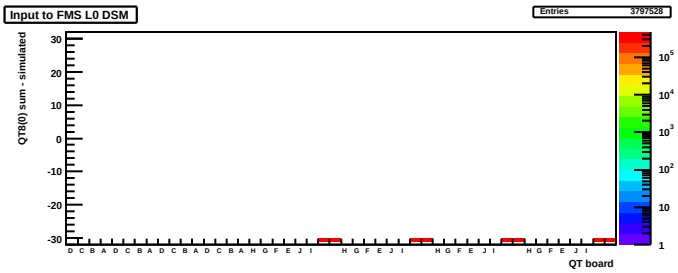

Input to QT1 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

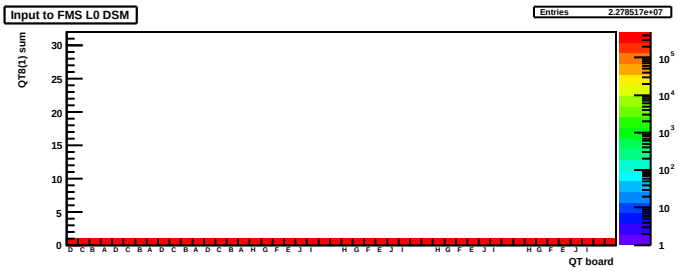

Input to QT2 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

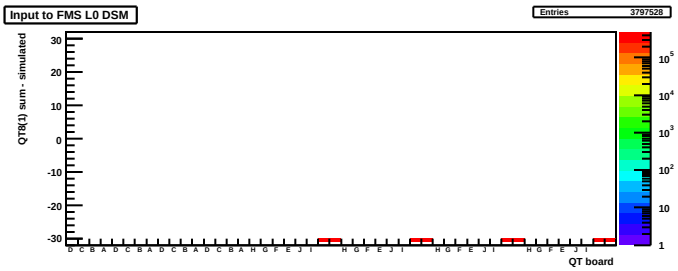

Input to QT3 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

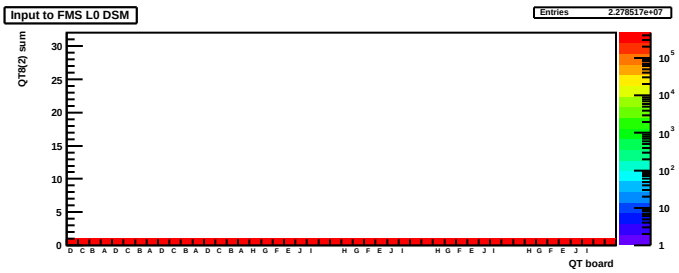

Input to QT4 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

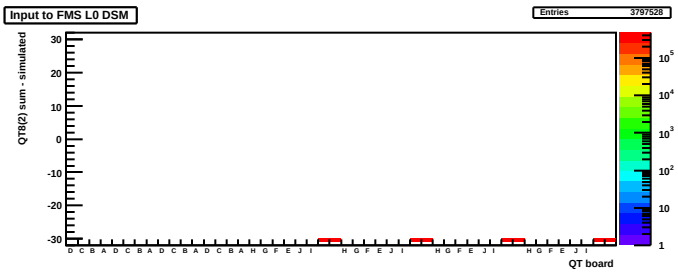

Input to FMS L0 DSM
Entries 2.278517e+07
QT8(0) sum
QT board

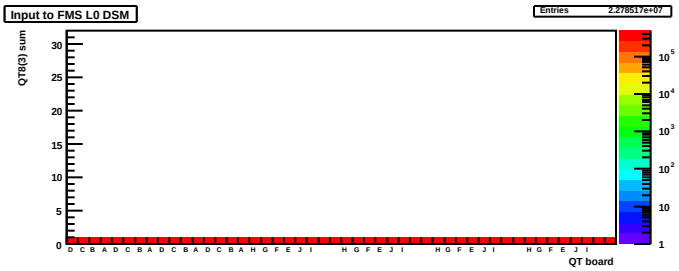

Input to FMS L0 DSM
Entries 3797528
QT8(0) sum - simulated
QT board

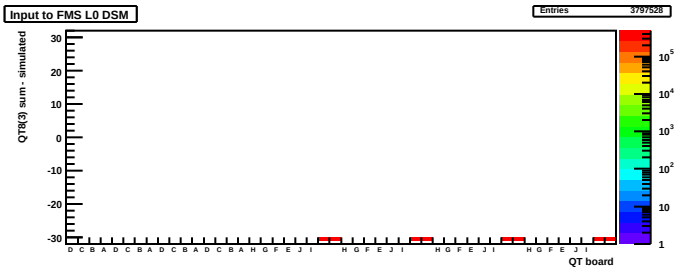

Input to FMS L0 DSM
Entries 2.278517e+07
QT8(1) sum
QT board

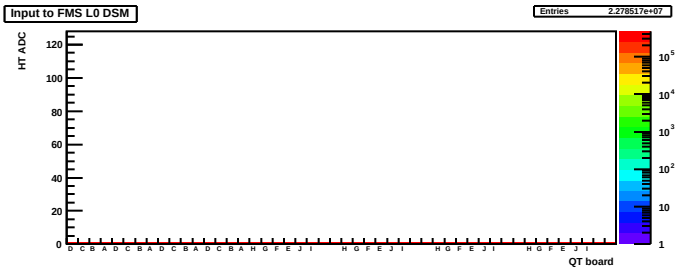

Input to FMS L0 DSM
Entries 3797528
QT8(1) sum - simulated
QT board

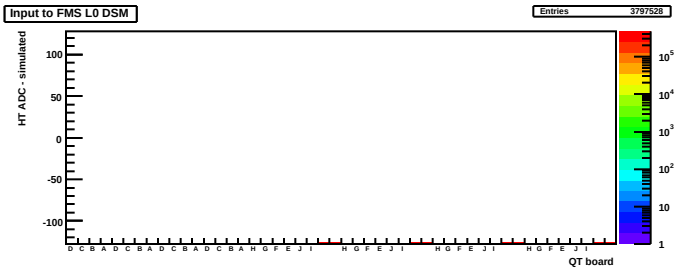

Input to FMS L0 DSM
Entries 2.278517e+07
QT8(2) sum
QT board

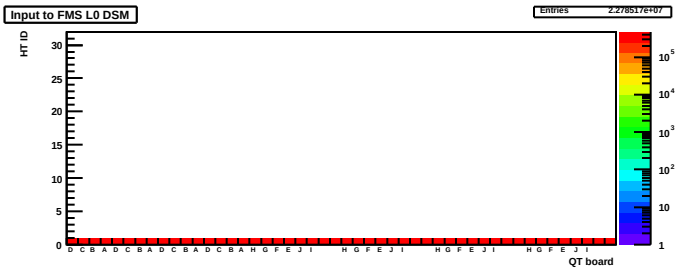

Input to FMS L0 DSM
Entries 3797528
QT8(2) sum - simulated
QT board

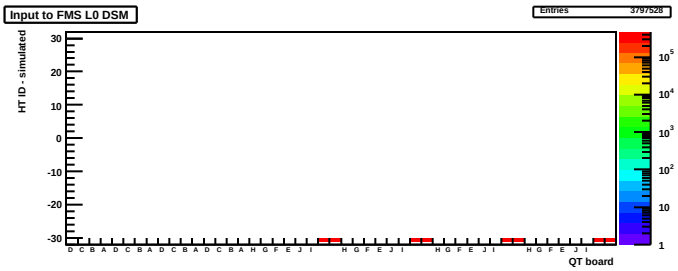

Input to FMS L0 DSM
Entries 2.278517e+07
QT8(3) sum
QT board

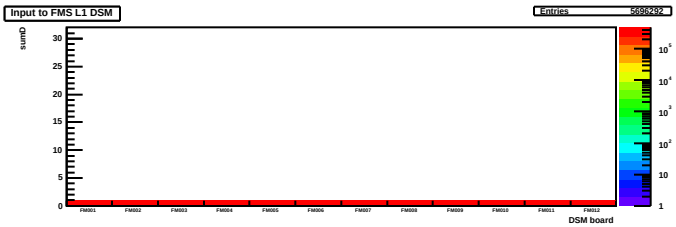

Input to FMS L0 DSM
Entries 3797528
QT8(3) sum - simulated
QT board

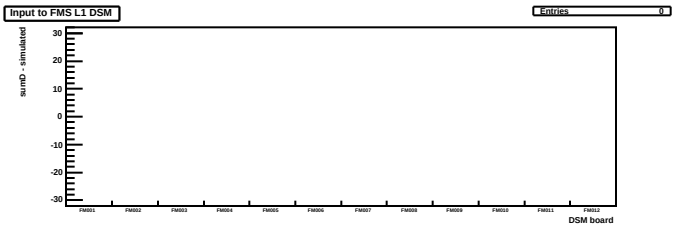

Input to FMS L0 DSM
Entries 2.278517e+07
HT ADC
QT board

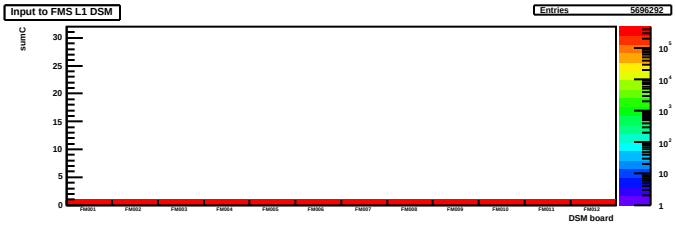

Input to FMS L0 DSM
Entries 3797528
HT ADC - simulated
QT board

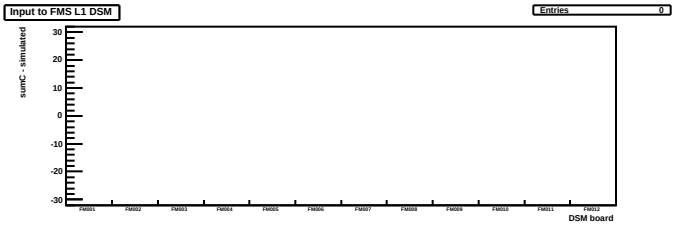

Input to FMS L0 DSM
Entries 2.278517e+07
HT ID
QT board

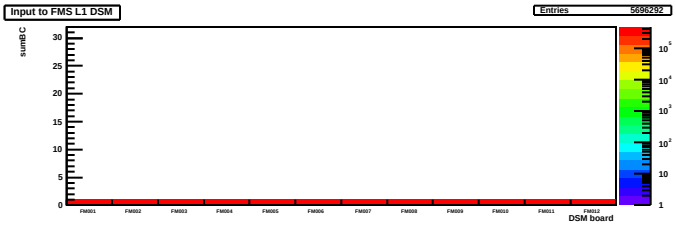

Input to FMS L0 DSM
Entries 3797528
HT ID - simulated
QT board

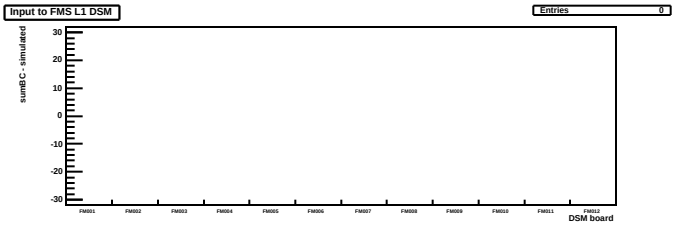

Input to FMS L1 DSM
Entries 5696292
sumD
DSM board

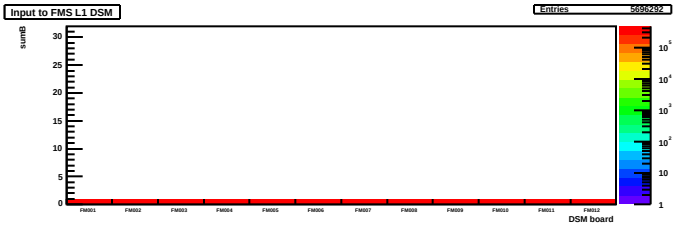

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

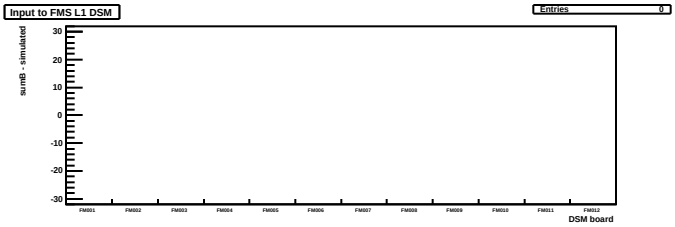

Input to FMS L1 DSM
Entries 5696292
sumC
DSM board

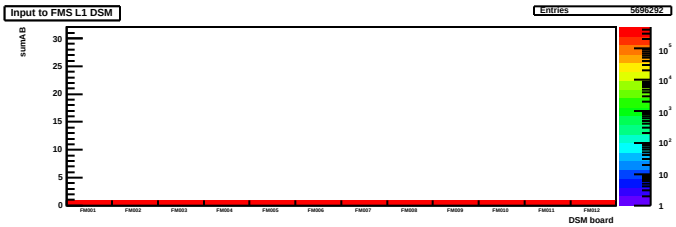

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

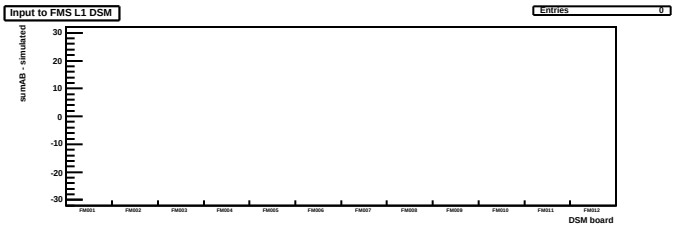

Input to FMS L1 DSM
Entries 5696292
sumBC
DSM board

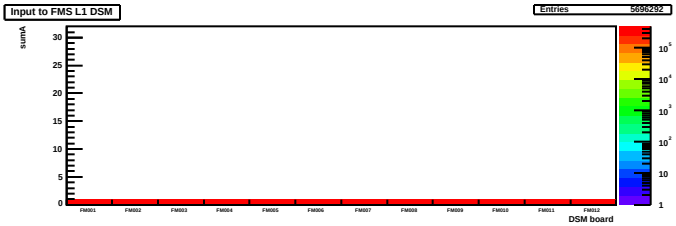

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

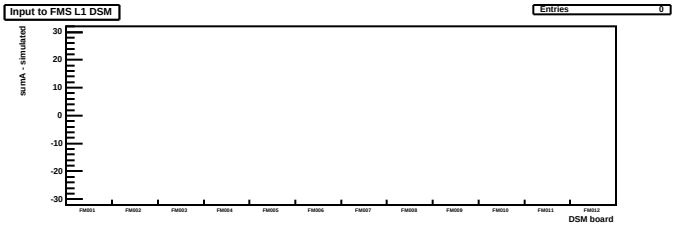

Input to FMS L1 DSM
Entries 5696292
sumB
DSM board

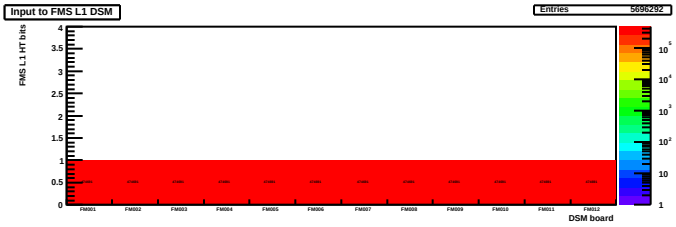

Input to FMS L1 DSM
Entries 0
sumB - simulated
DSM board

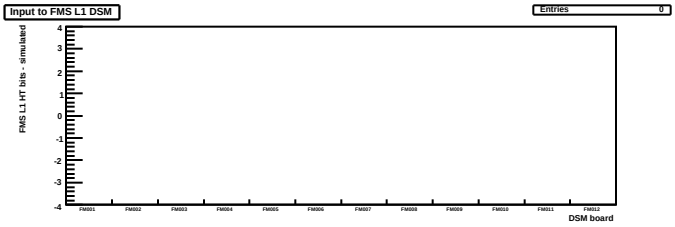

Input to FMS L1 DSM
Entries 5696292
sumAB
DSM board

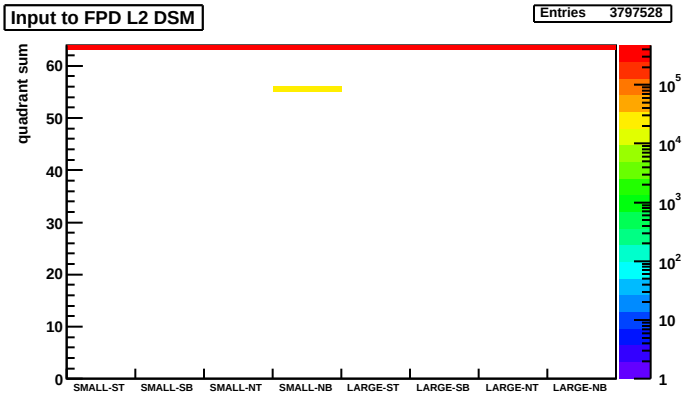

Input to FMS L1 DSM
Entries 0
sumAB - simulated
DSM board

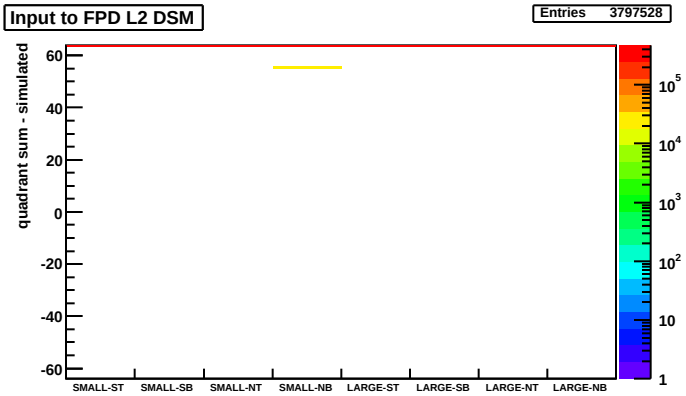

Input to FMS L1 DSM
Entries 5696292
sumA
DSM board

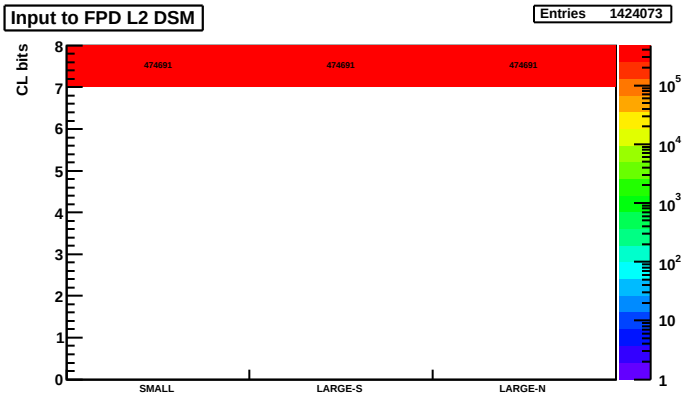

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

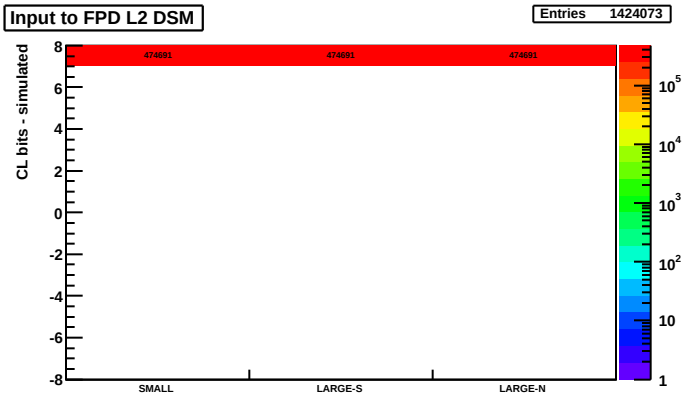

Input to FMS L1 DSM
Entries 5696292
FMS L1 HT bits
DSM board

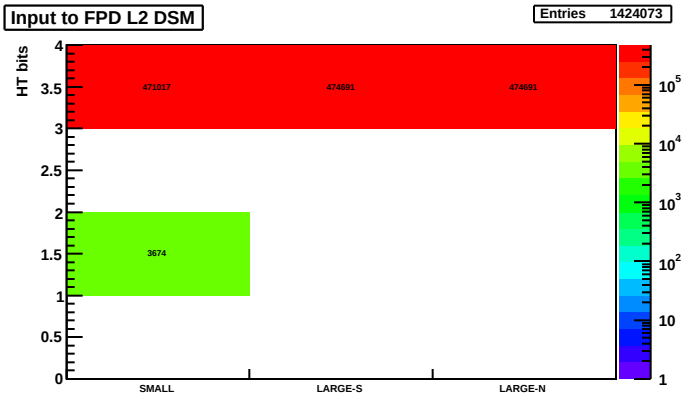

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

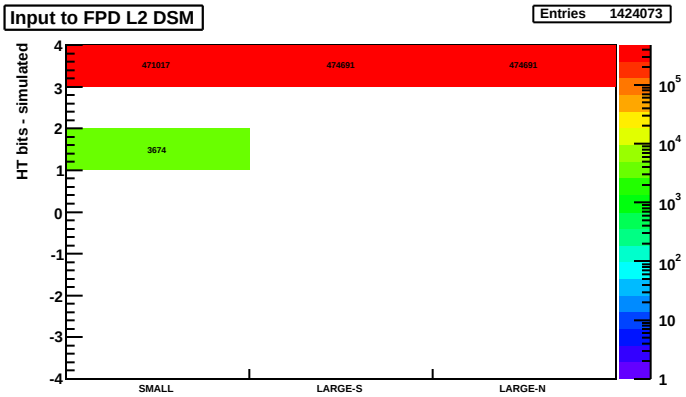

Input to FPD L2 DSM
Entries 3797528
quadrant sum
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

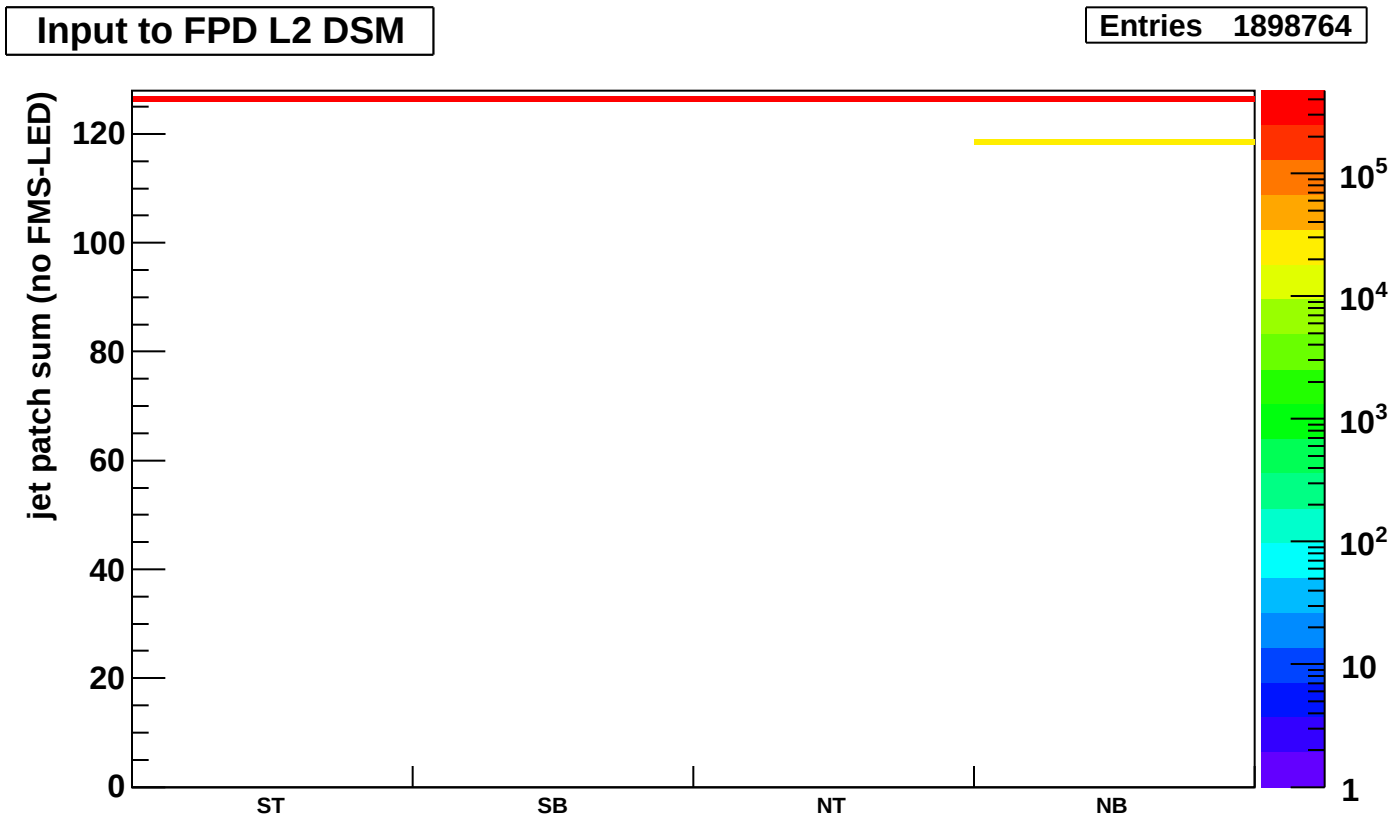

Input to FPD L2 DSM
Entries 3797528
quadrant sum - simulated
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

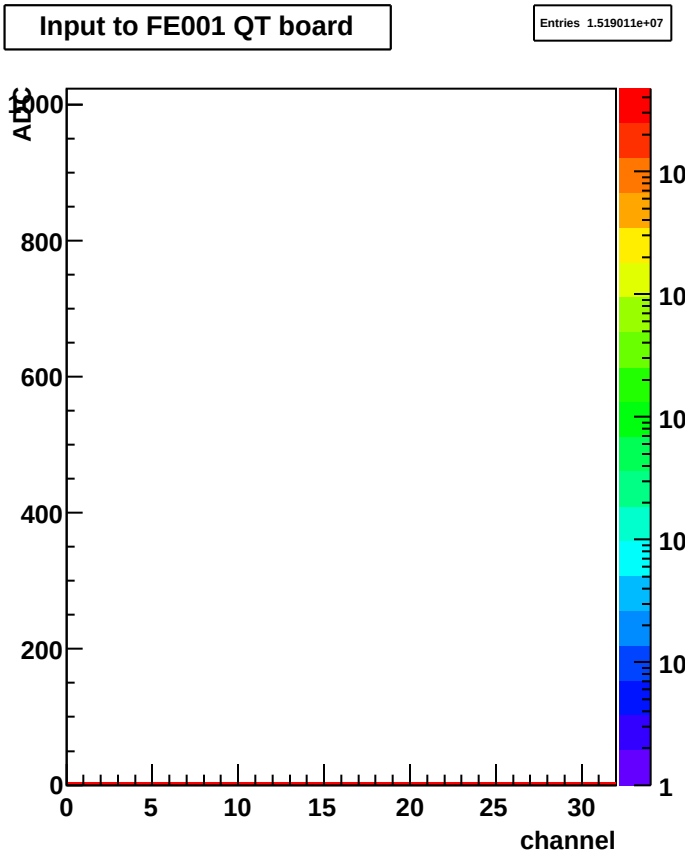

Input to FPD L2 DSM
Entries 1424073
CL bits
474691
474691
474691
SMALL
LARGE-S
LARGE-N

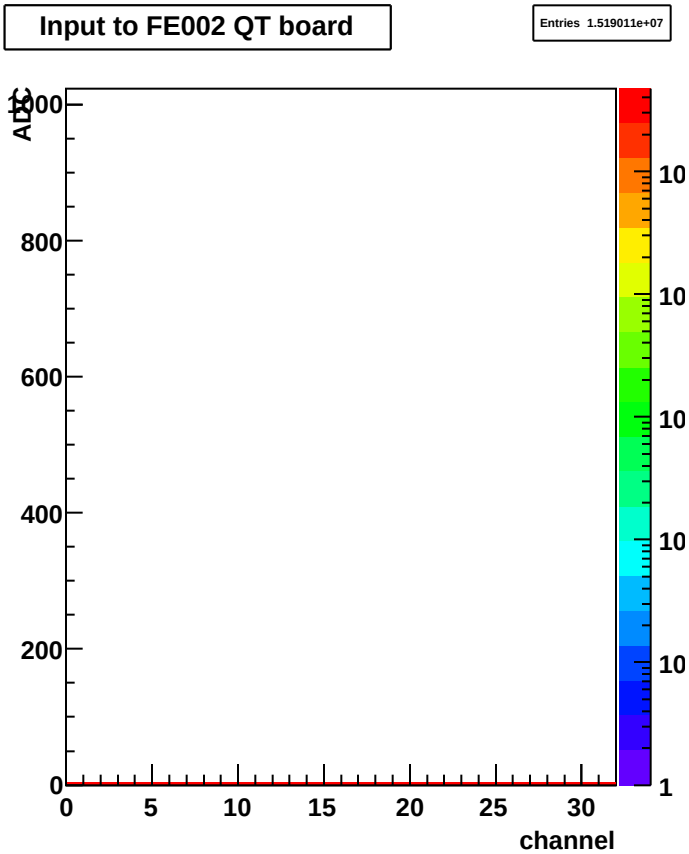

Input to FPD L2 DSM
Entries 1424073
CL bits - simulated
474691
474691
474691
SMALL
LARGE-S
LARGE-N

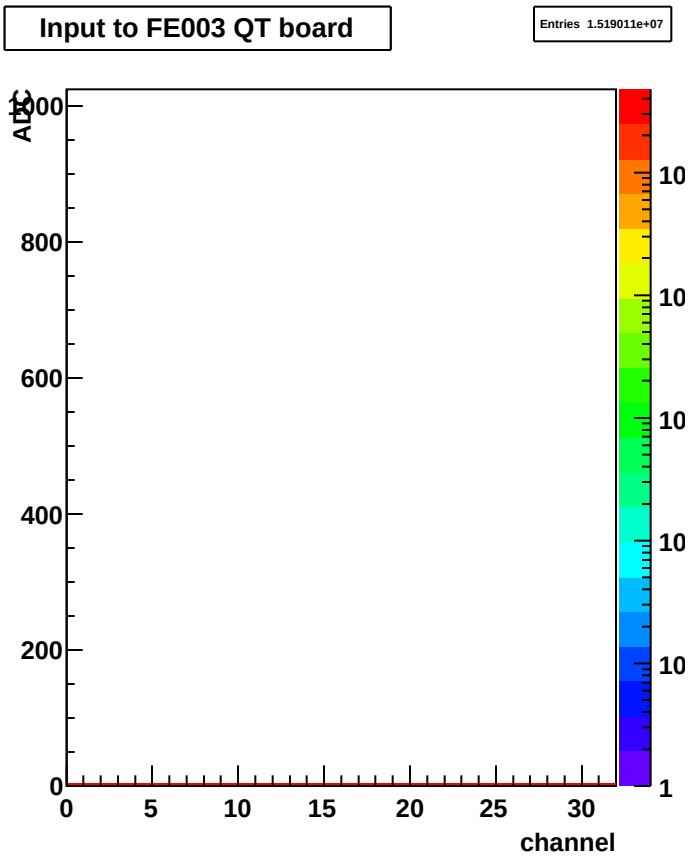

Input to FPD L2 DSM
Entries 1424073
HT bits
471017
474691
474691
3674
SMALL
LARGE-S
LARGE-N

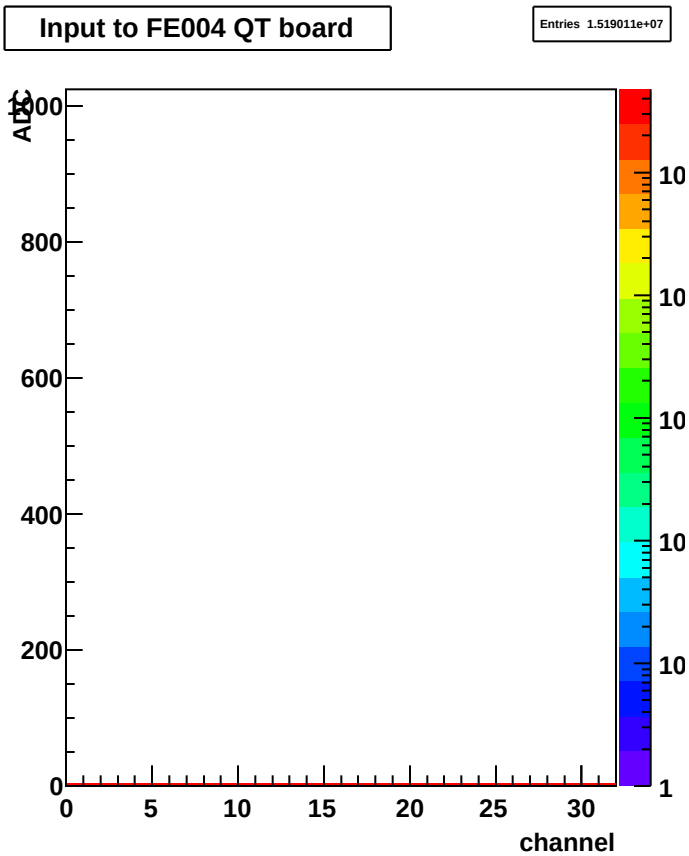

Input to FPD L2 DSM
Entries 1424073
HT bits - simulated
471017
474691
474691
3674
SMALL
LARGE-S
LARGE-N

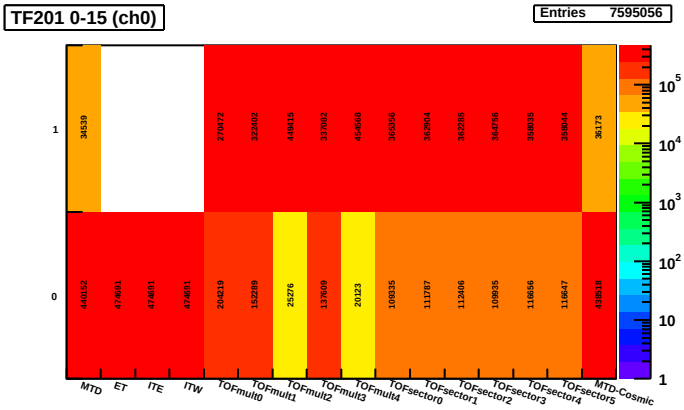

Input to FPD L2 DSM
Entries 1898764
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
1
10
10^2
10^3
10^4
10^5

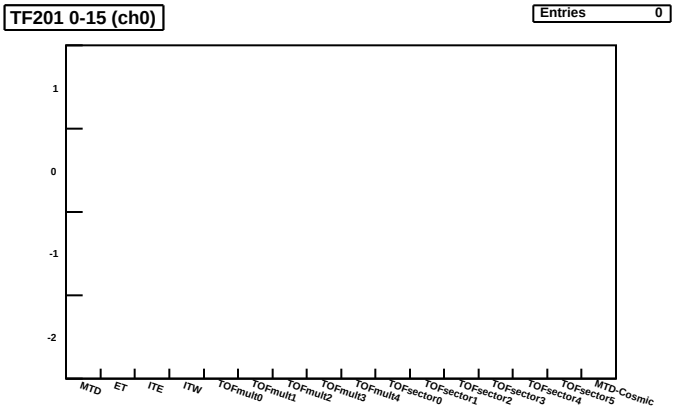

Input to FE001 QT board
Entries 1.519011e+07
ADC
channel

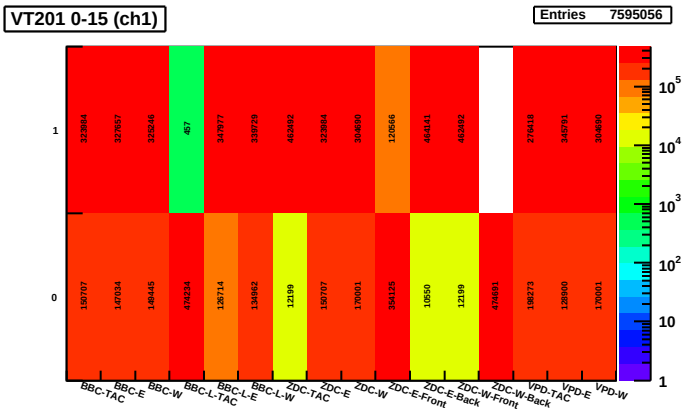

Input to FE002 QT board
Entries 1.519011e+07
ADC
channel

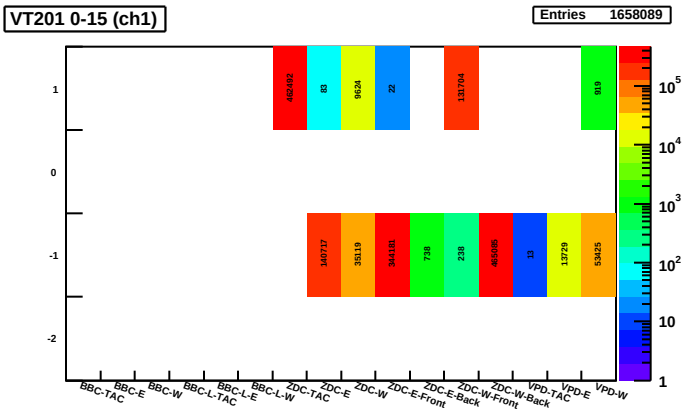

Input to FE003 QT board
Entries 1.519011e+07
ADC
channel

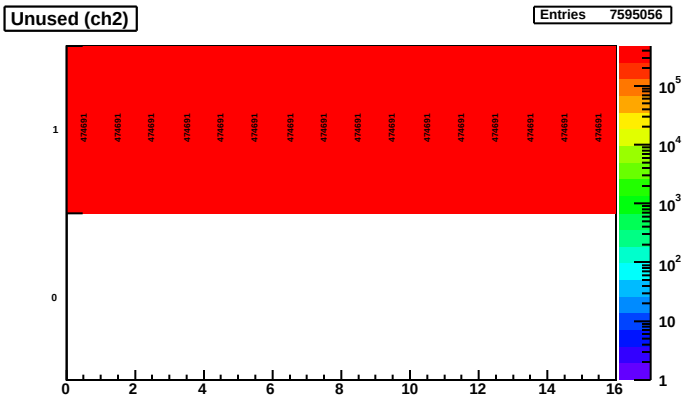

Input to FE004 QT board
Entries 1.519011e+07
ADC
channel

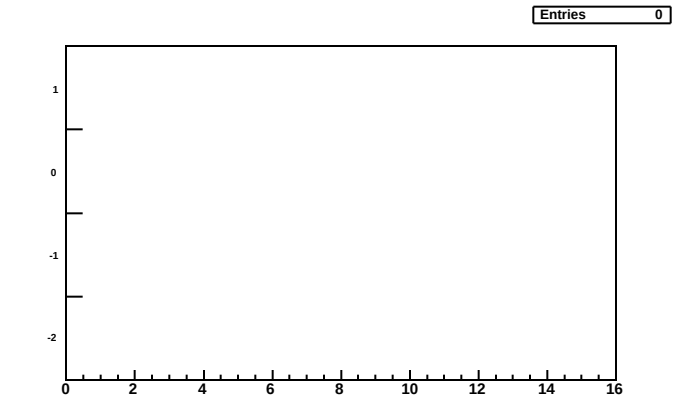

TF201 0-15 (ch0)
Entries 7595056
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

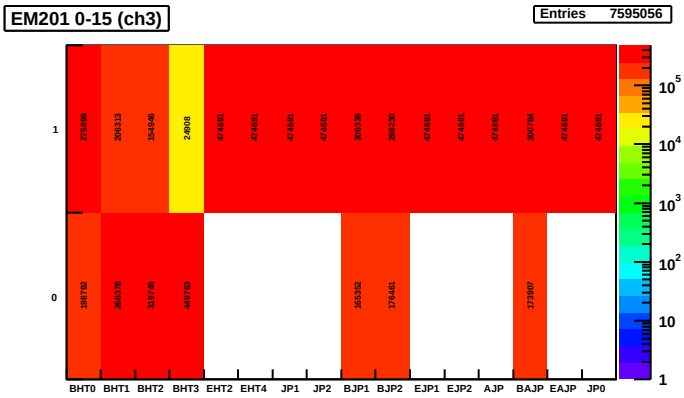

TF201 0-15 (ch0)
Entries 0
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

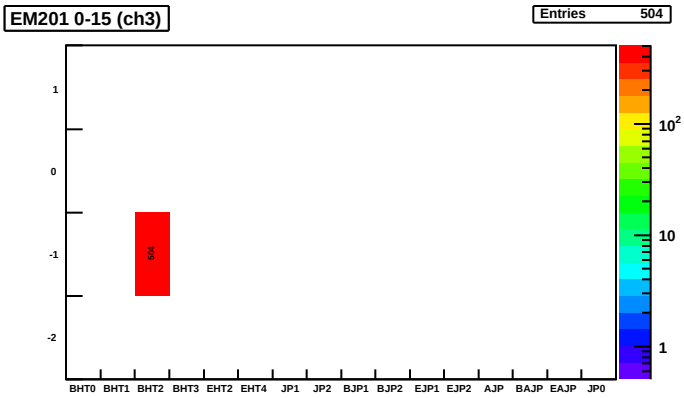

VT201 0-15 (ch1)
Entries 7595056
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W


VT201 0-15 (ch1)
Entries 1658089
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

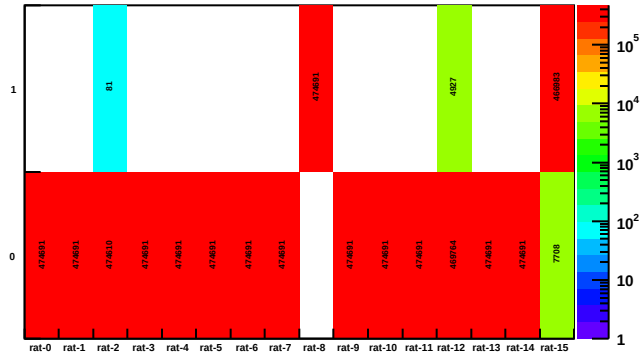

Unused (ch2)
Entries 7595056

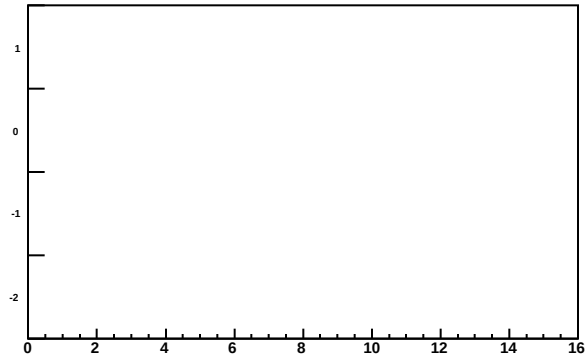

Entries 0


EM201 0-15 (ch3)
Entries 7595056
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

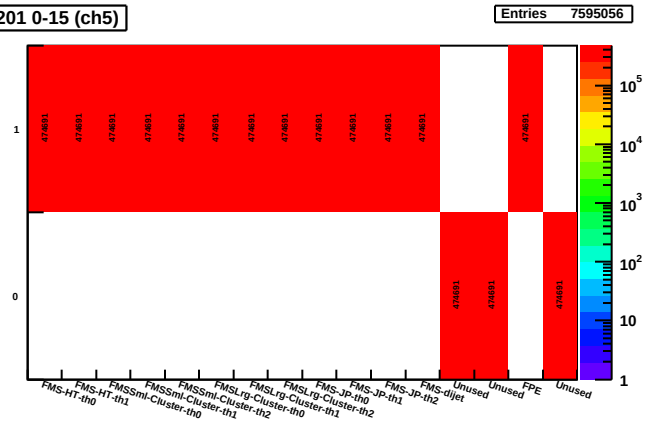

EM201 0-15 (ch3)
Entries 504
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

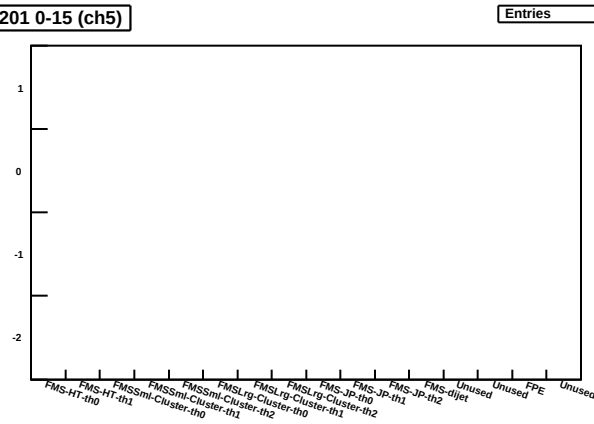
RAT board (ch4)



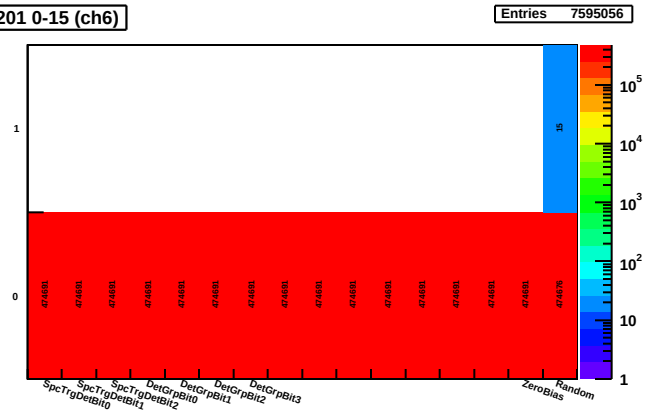


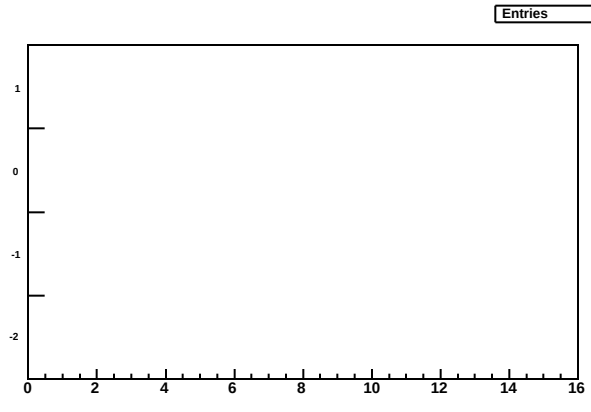
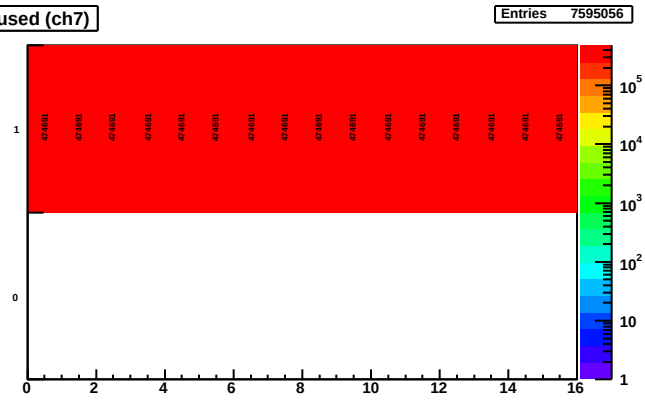
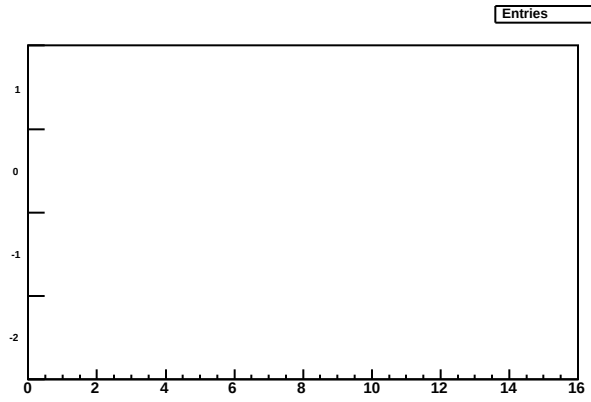
FP201 0-15 (ch5)





ST201 0-15 (ch6)





Unused (ch7)