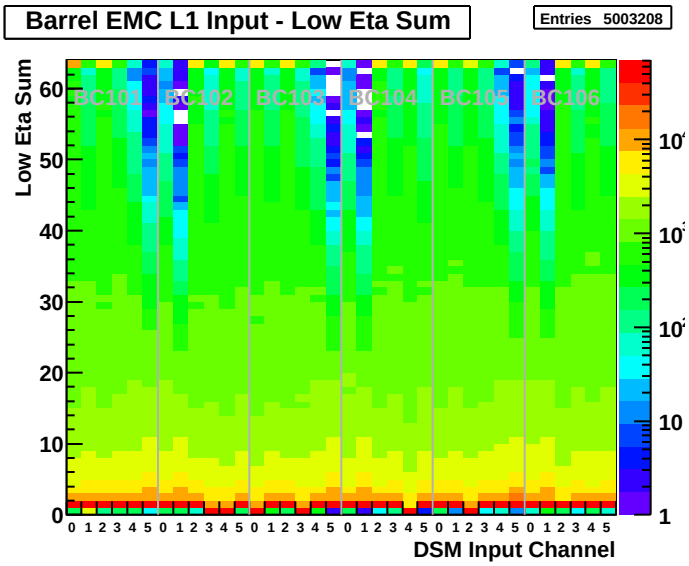
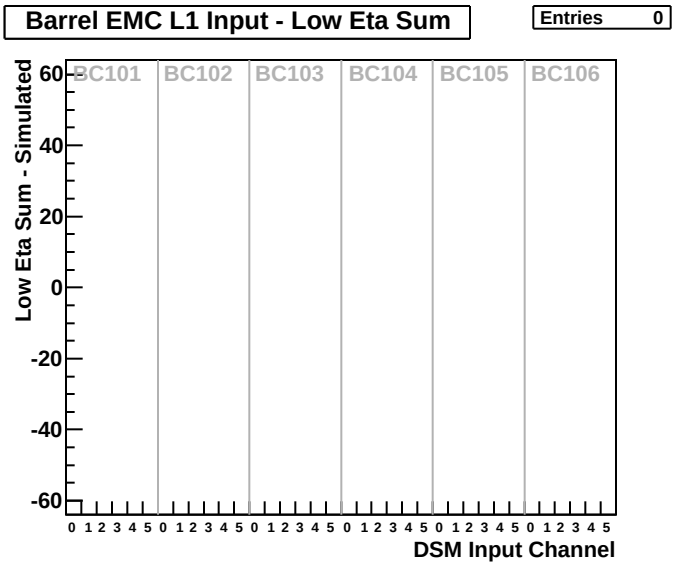
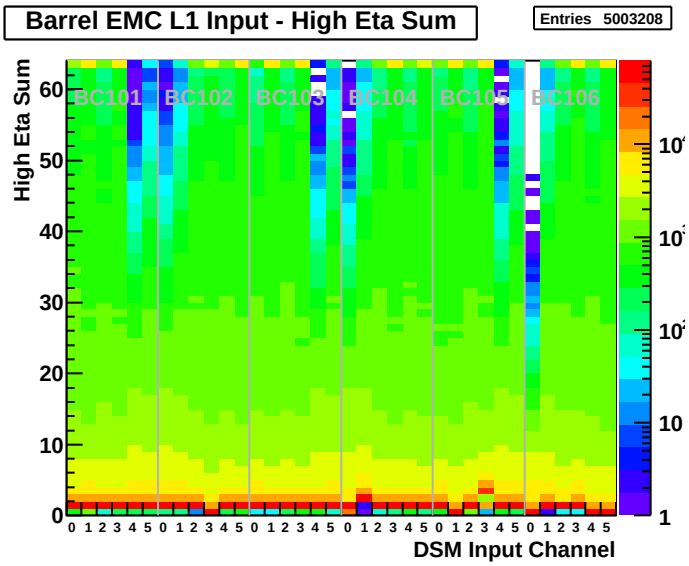
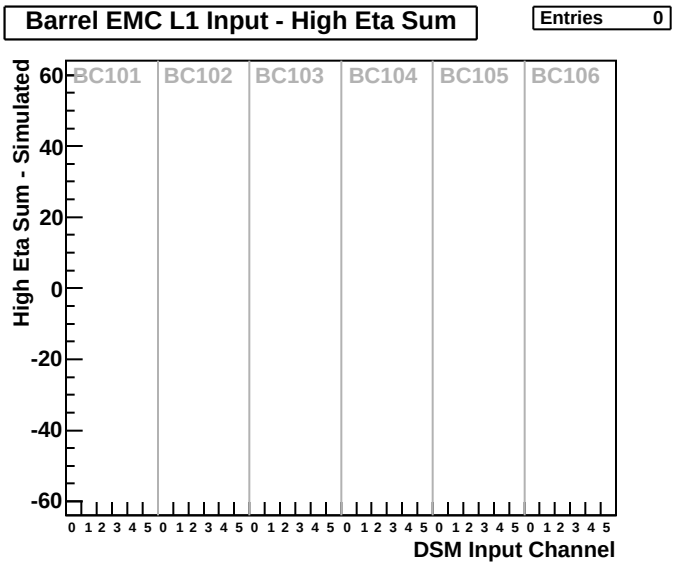
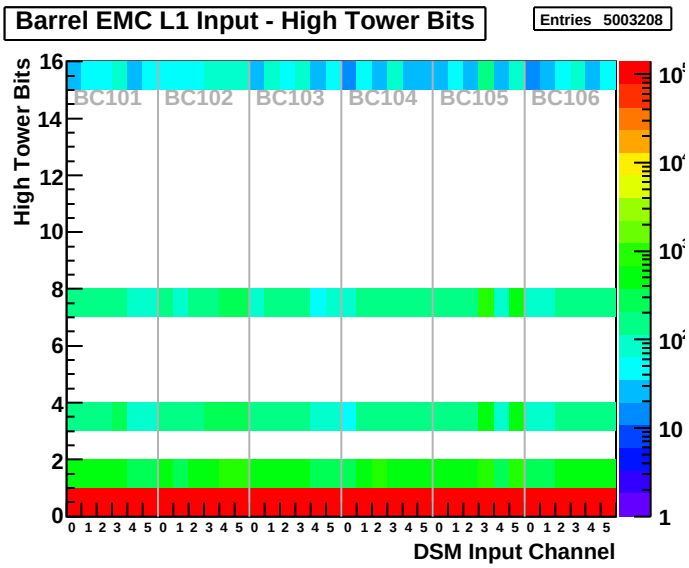
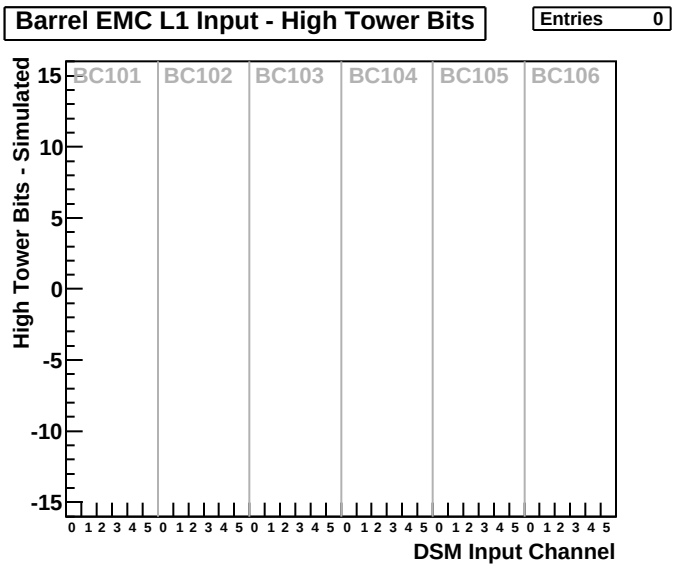

Barrel EMC L1 Input - Low Eta Sum
Entries 5003208
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

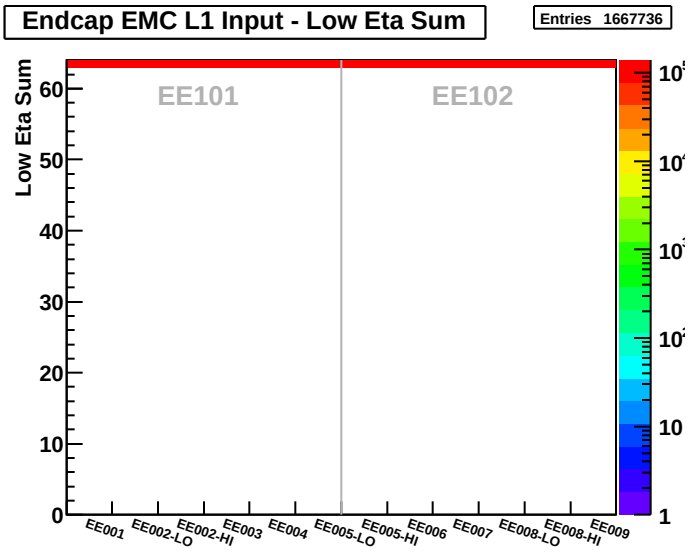

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

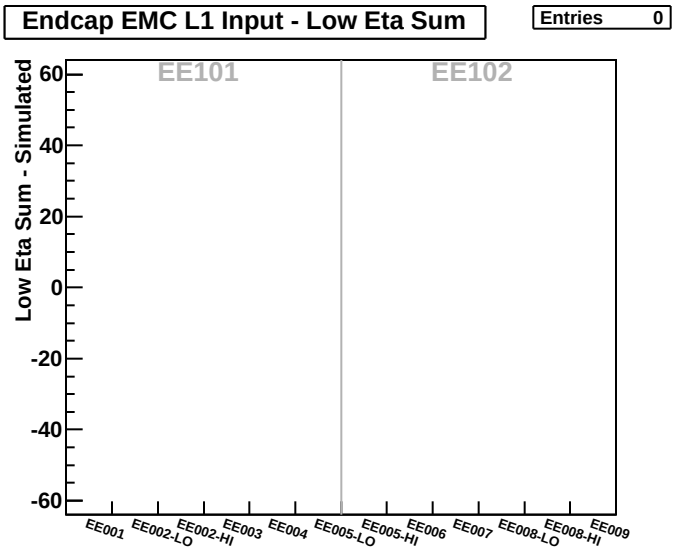

Barrel EMC L1 Input - High Eta Sum
Entries 5003208
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

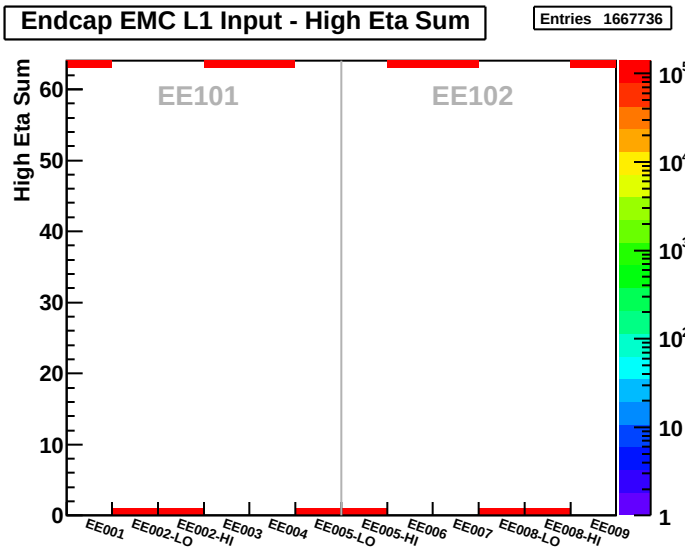

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

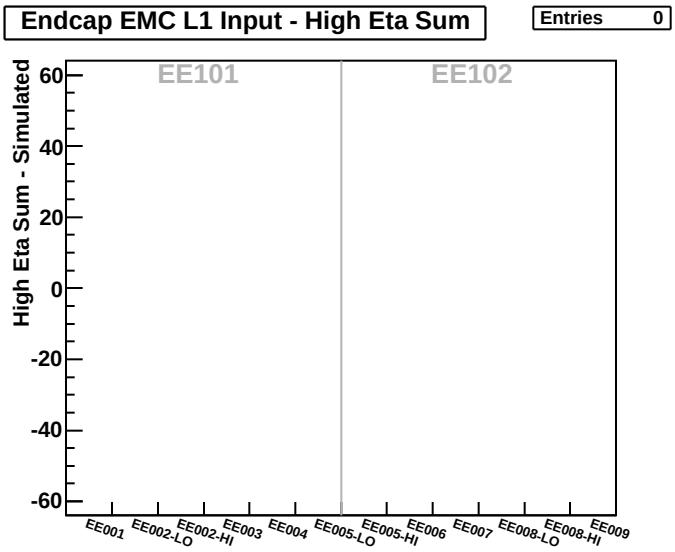

Barrel EMC L1 Input - High Tower Bits
Entries 5003208
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

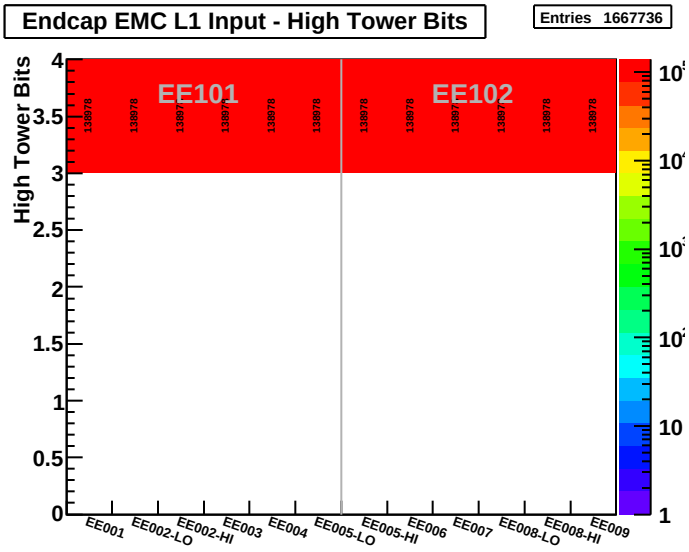

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

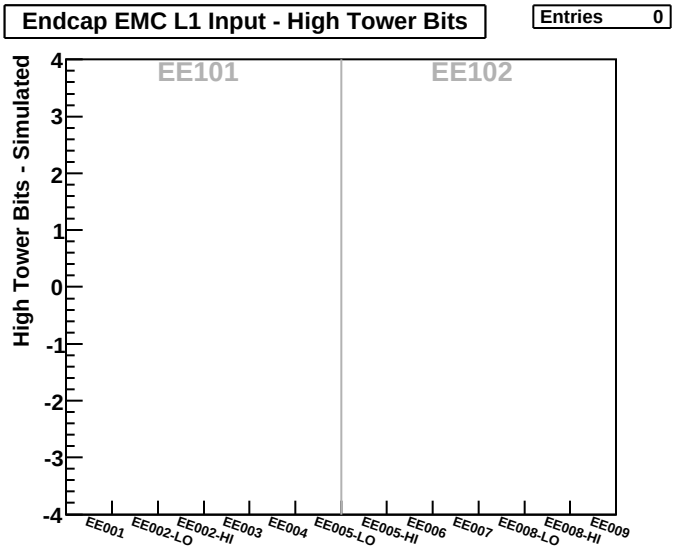

Endcap EMC L1 Input - Low Eta Sum
Entries 1667736
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

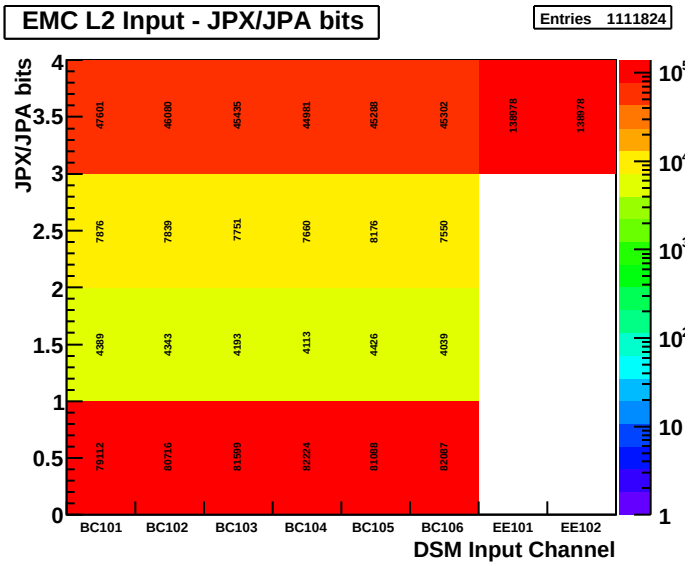

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

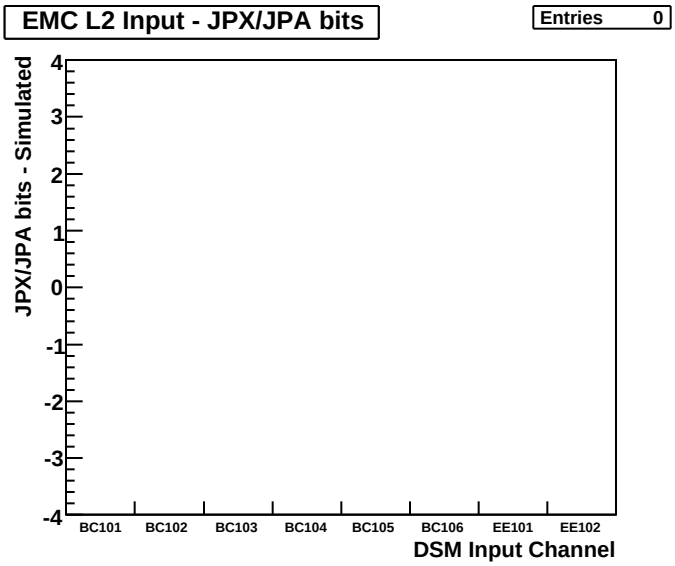

Endcap EMC L1 Input - High Eta Sum
Entries 1667736
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

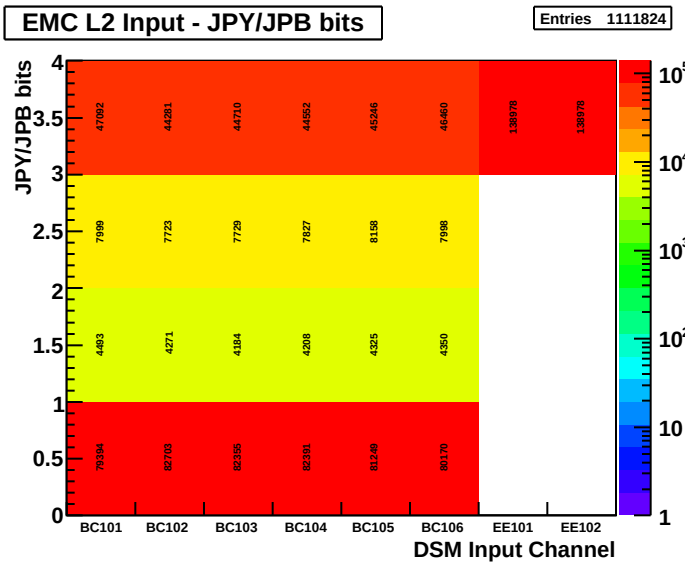

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

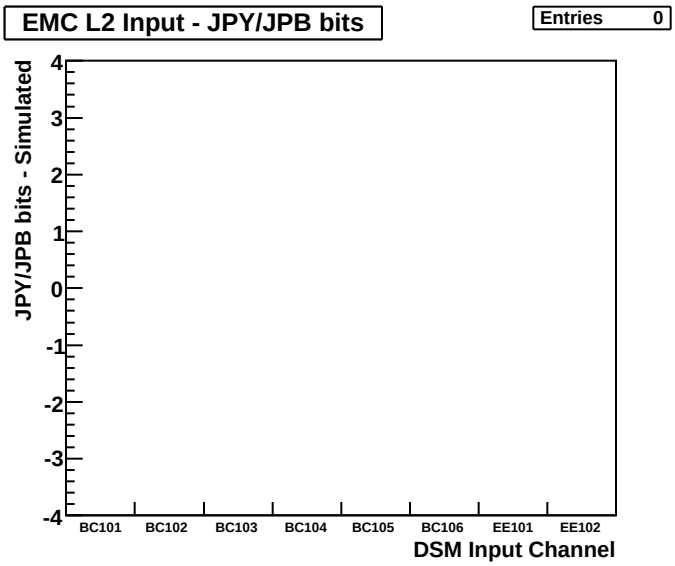

Endcap EMC L1 Input - High Tower Bits
Entries 1667736
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

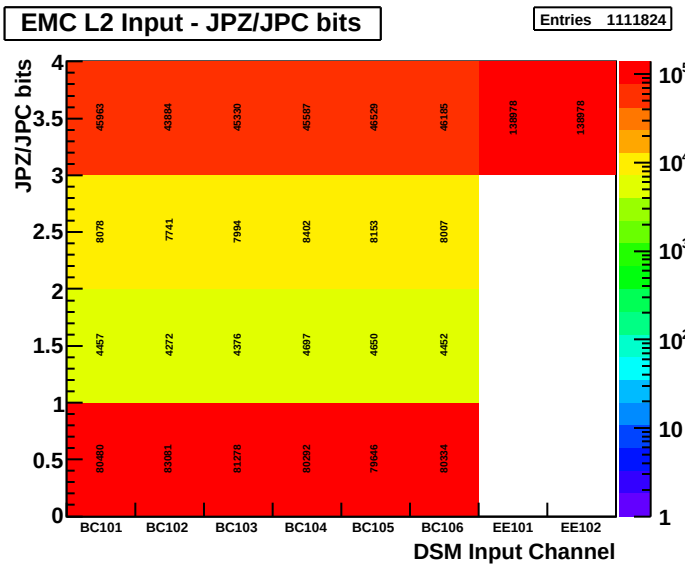

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

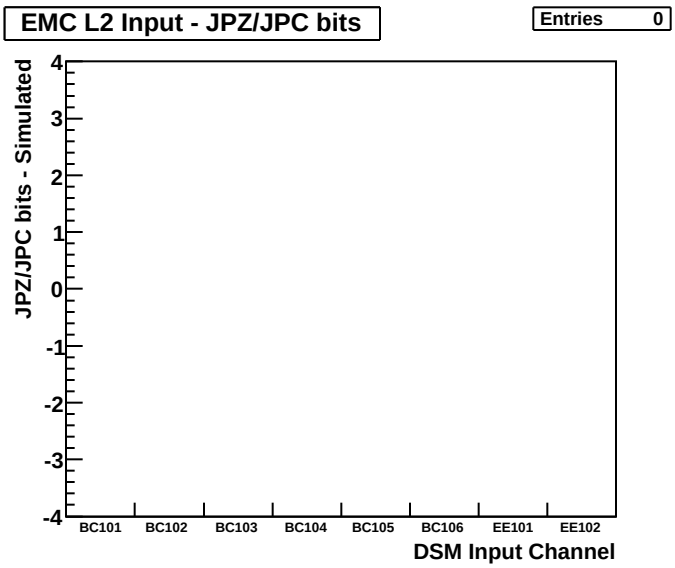

EMC L2 Input - JPX/JPA bits
Entries 1111824
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
47601 46080 45435 44981 45288 45302 138978 138978
7876 7839 7751 7660 8176 7550
4389 4343 4193 4113 4426 4039
79112 80716 81599 82224 81088 82087

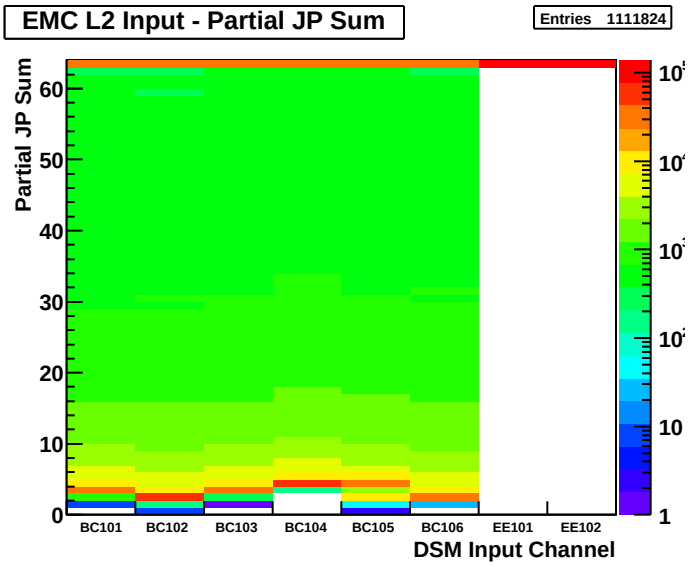

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

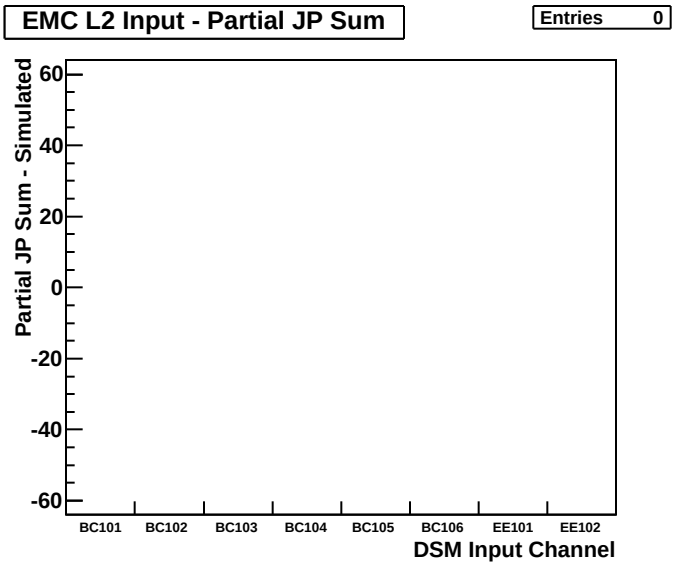

EMC L2 Input - JPY/JPB bits
Entries 1111824
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
47082 44281 44710 44552 45246 46460 138978 138978
7999 7723 7729 7827 8158 7998
4493 4271 4184 4208 4325 4350
79394 82703 82355 82391 81249 80170

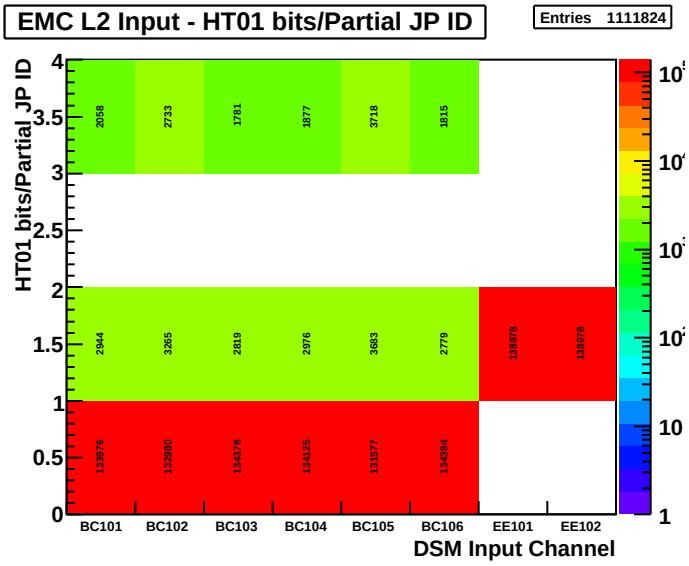

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

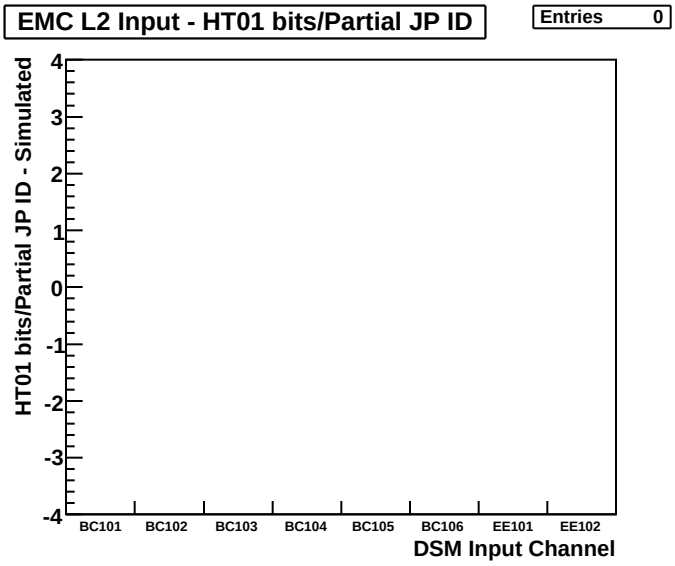

EMC L2 Input - JPZ/JPC bits
Entries 1111824
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
45963 43884 45330 45587 46529 46185 138978 138978
8078 7741 7994 8402 8153 8007
4457 4272 4376 4697 4650 4452
80480 83081 81278 80292 79646 80334

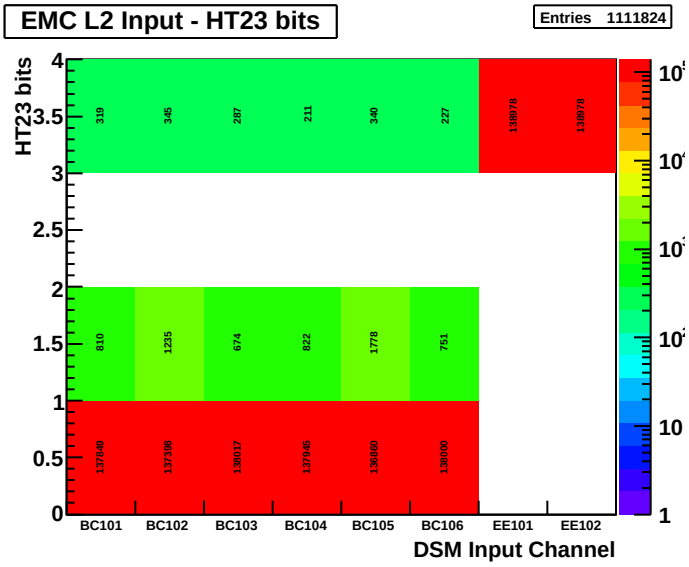

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

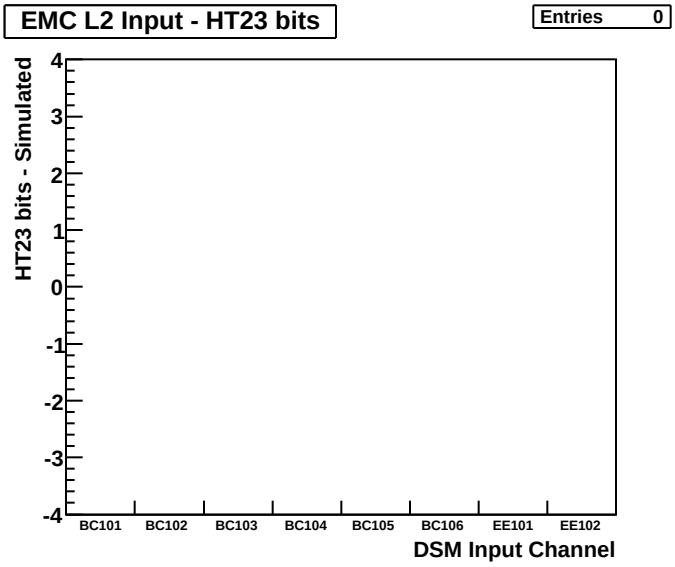

EMC L2 Input - Partial JP Sum
Entries 1111824
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

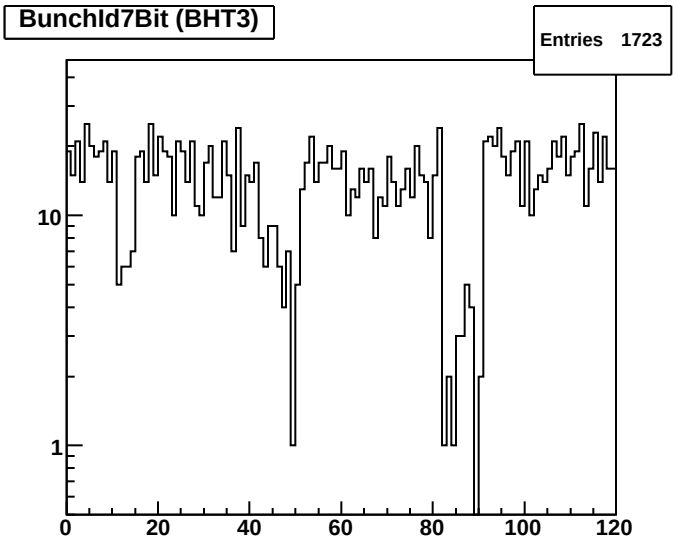

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

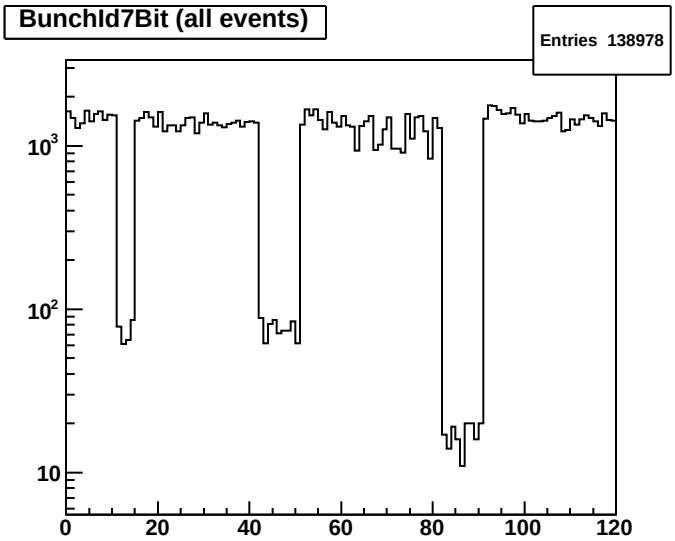

EMC L2 Input - HT01 bits/Partial JP ID
Entries 1111824
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

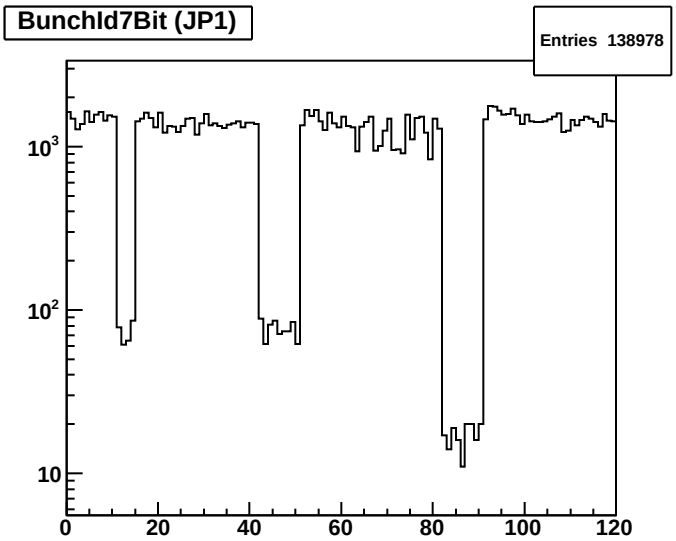

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

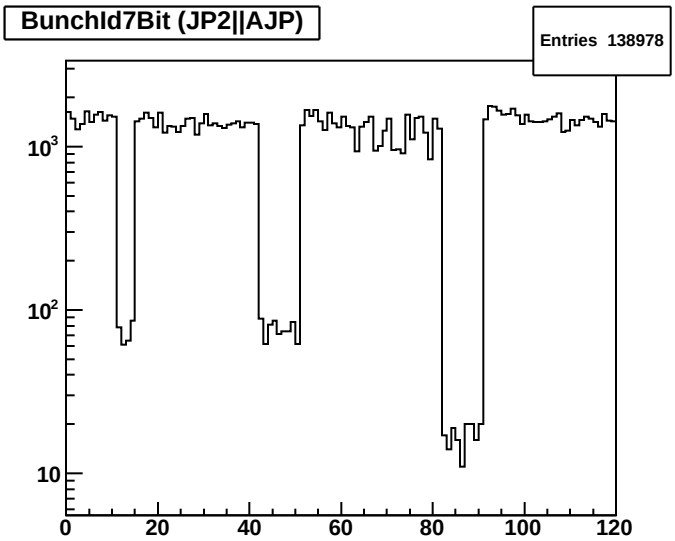

EMC L2 Input - HT23 bits
Entries 1111824
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

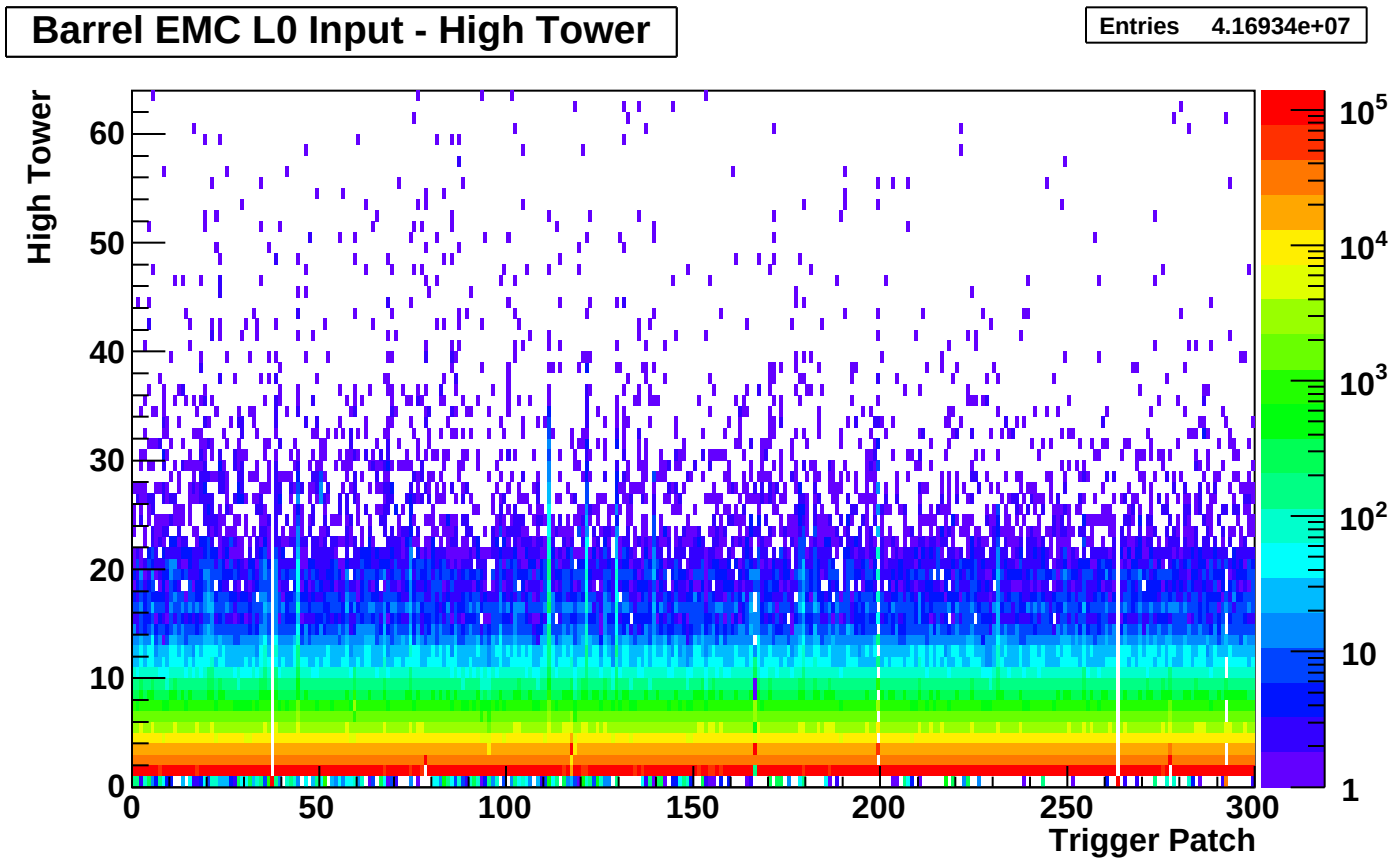

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

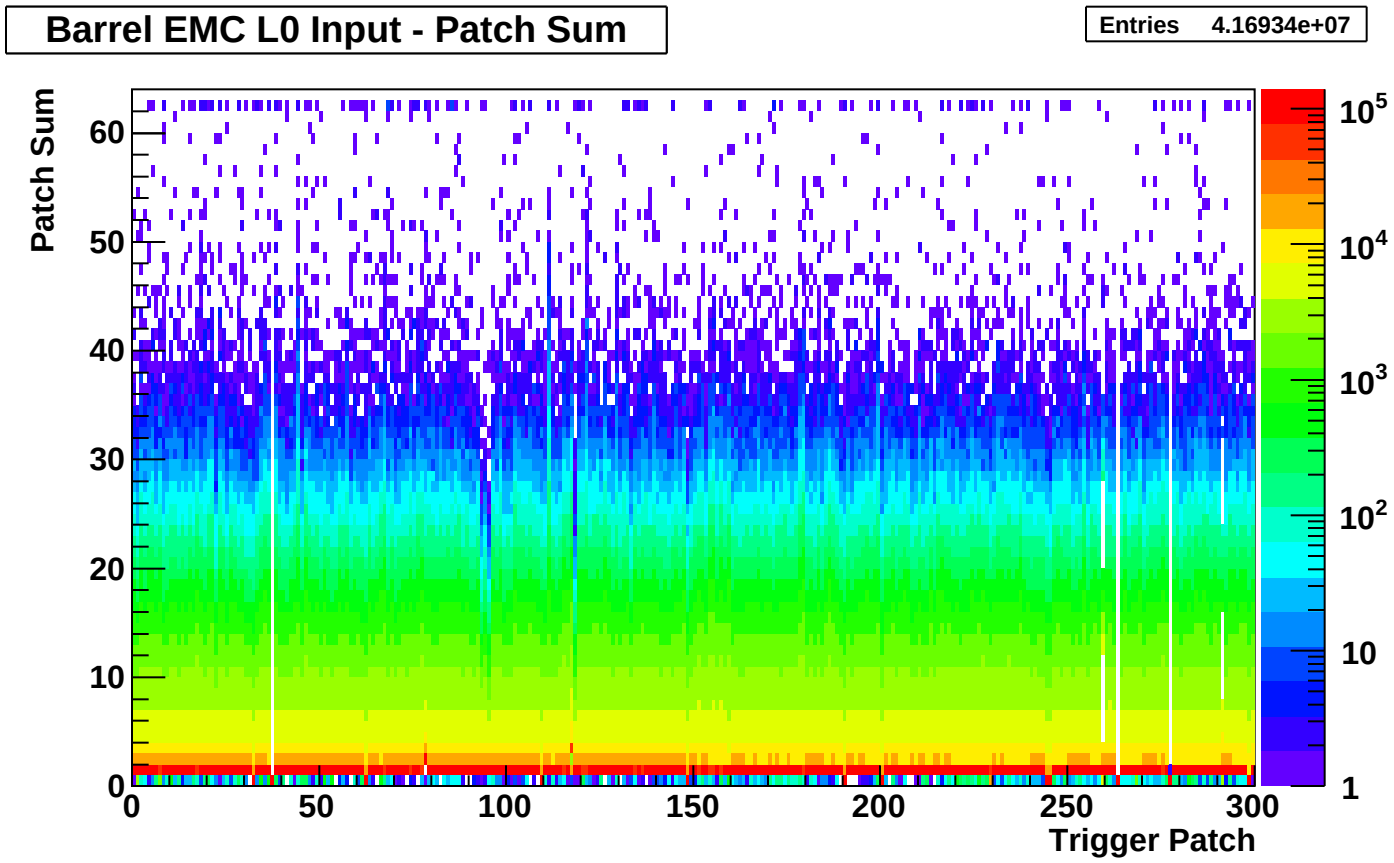

BunchId7Bit (BHT3)
Entries 1723
10
1
0
20
40
60
80
100
120

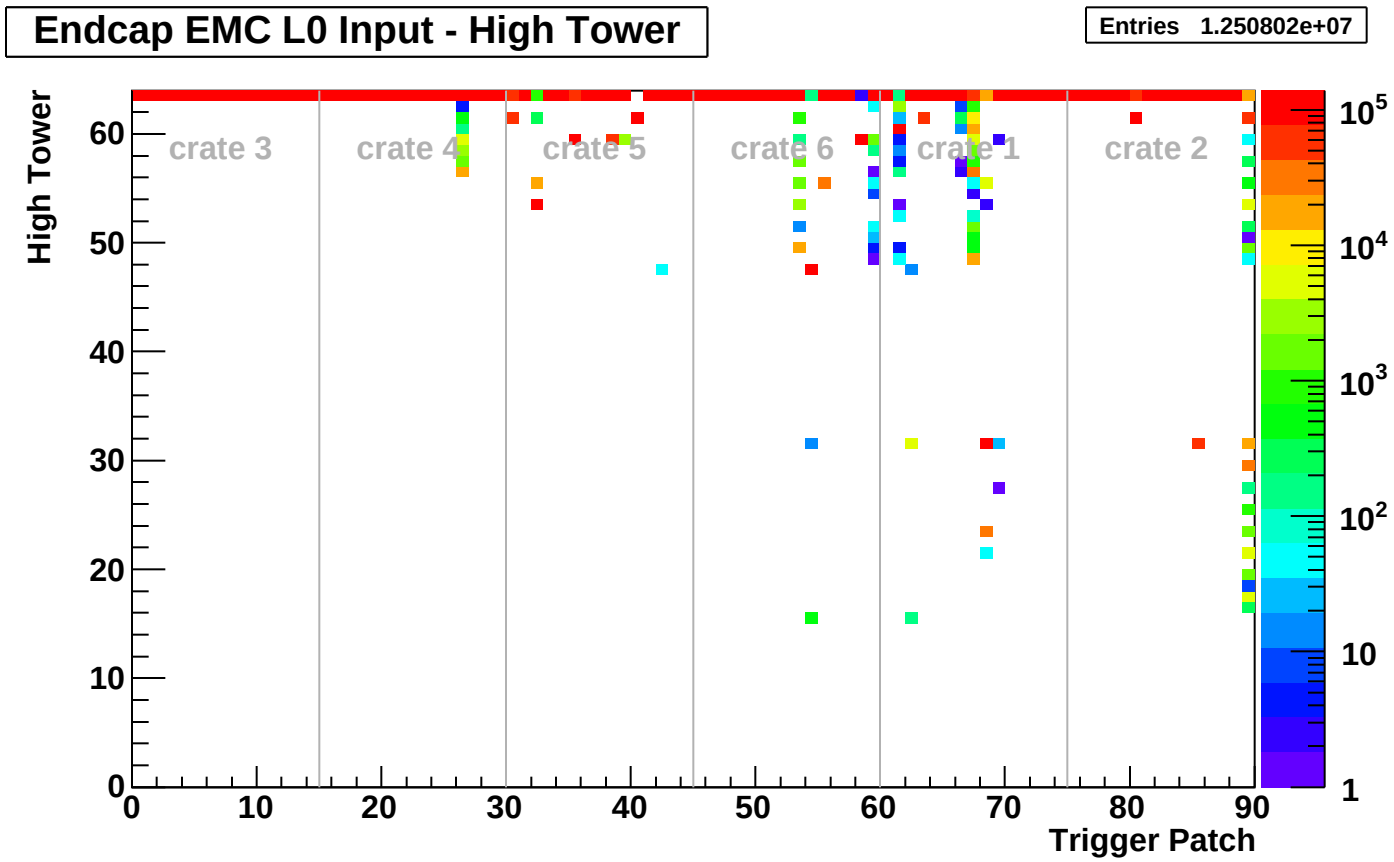

BunchId7Bit (all events)
Entries 138978
10^3
10^2
10
0
20
40
60
80
100
120

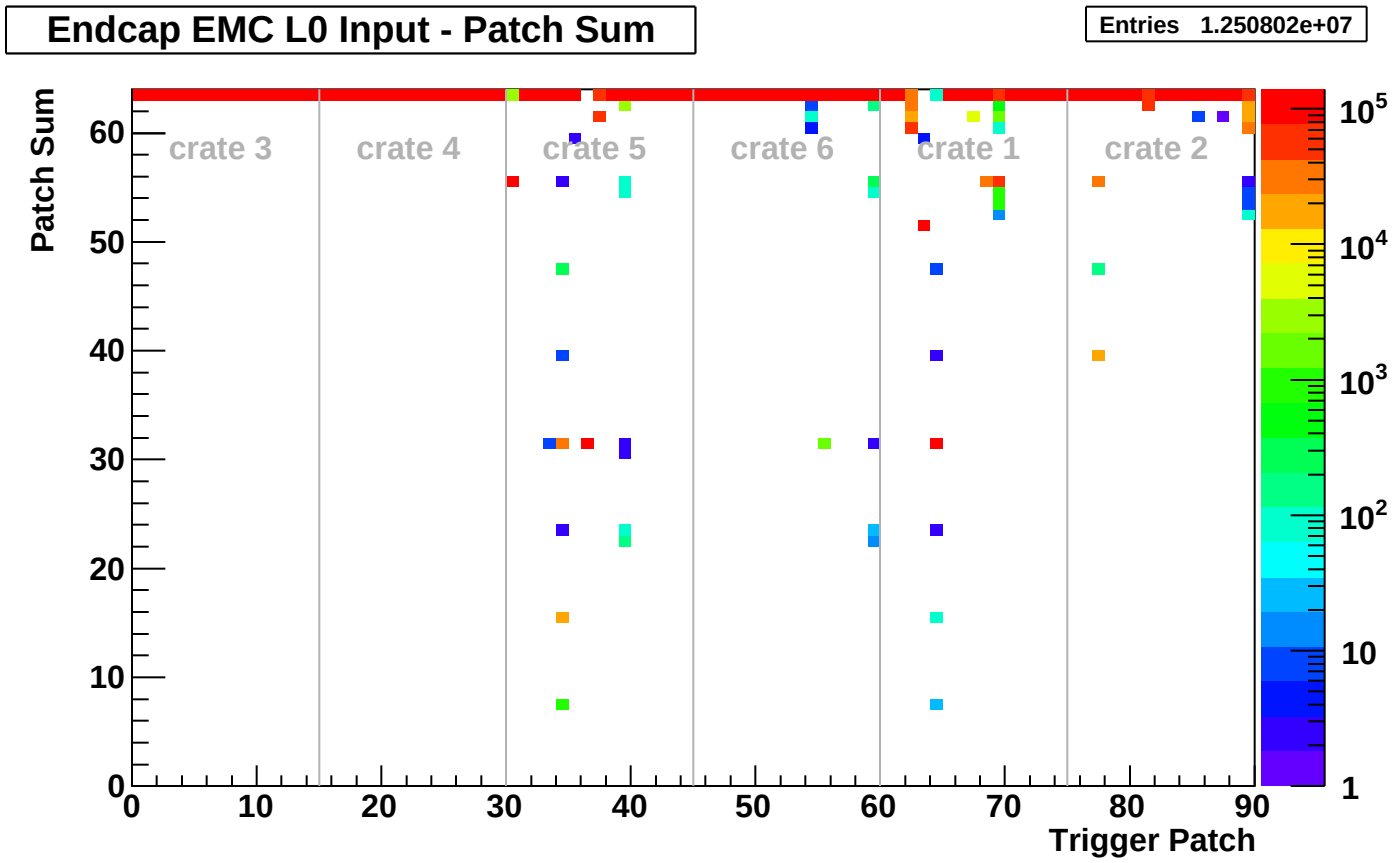

BunchId7Bit (JP1)
Entries 138978
10^3
10^2
10
0
20
40
60
80
100
120

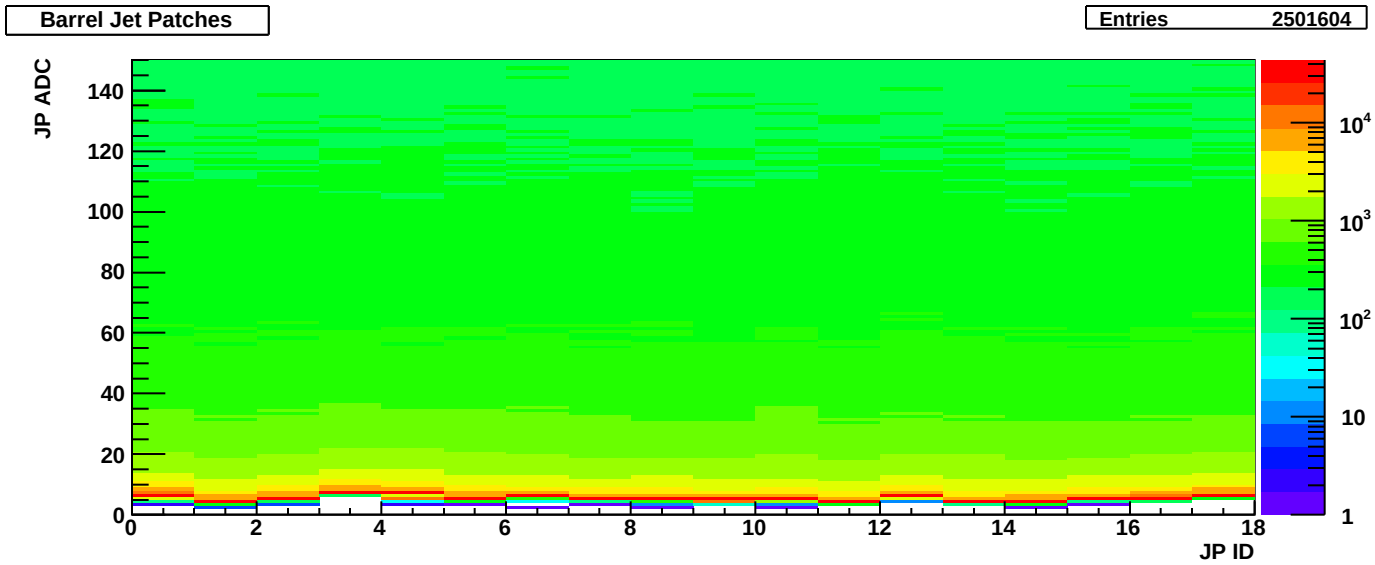

BunchId7Bit (JP2||AJP)
Entries 138978
10^3
10^2
10
0
20
40
60
80
100
120

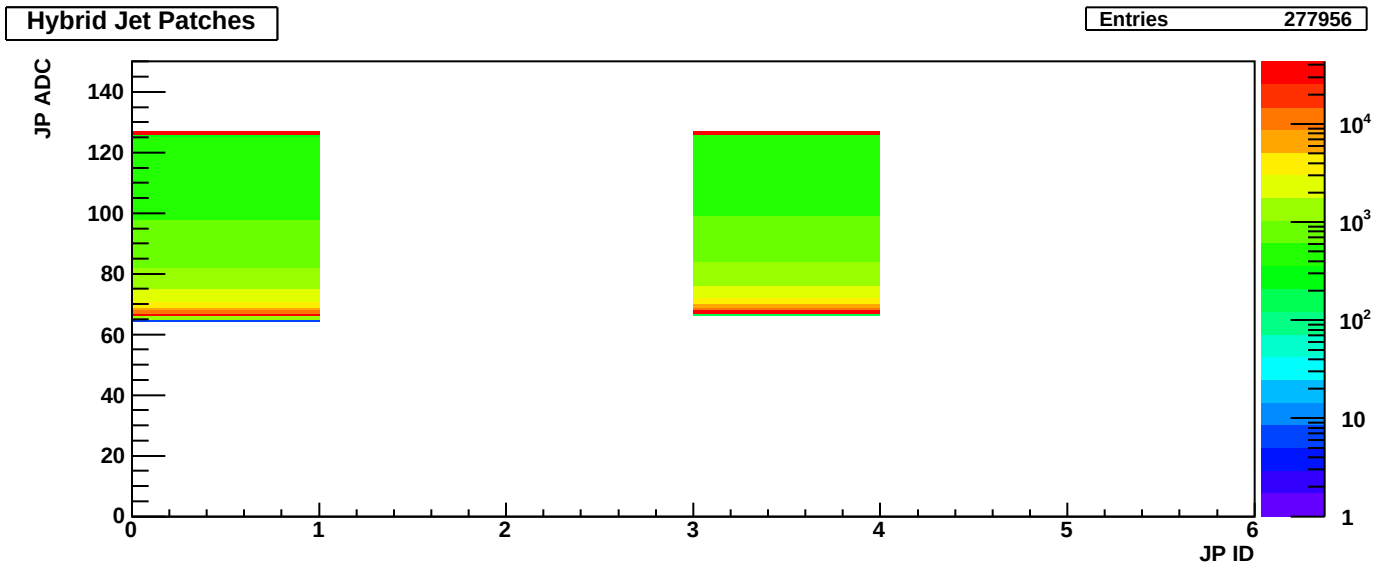

Barrel EMC L0 Input - High Tower
Entries 4.16934e+07
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

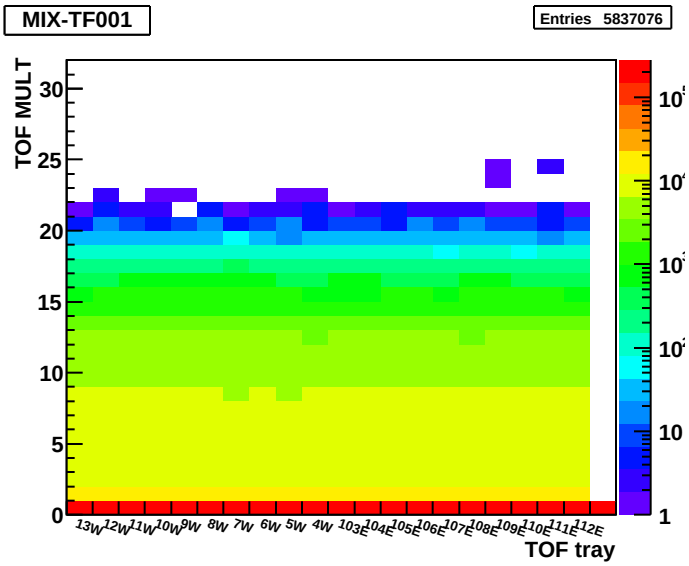

Barrel EMC L0 Input - Patch Sum
Entries 4.16934e+07
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

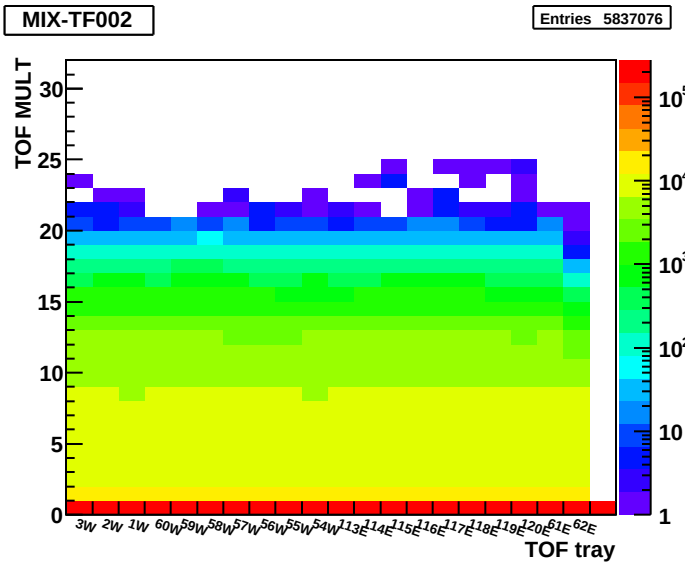

Endcap EMC L0 Input - High Tower
Entries 1.250802e+07
High Tower
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

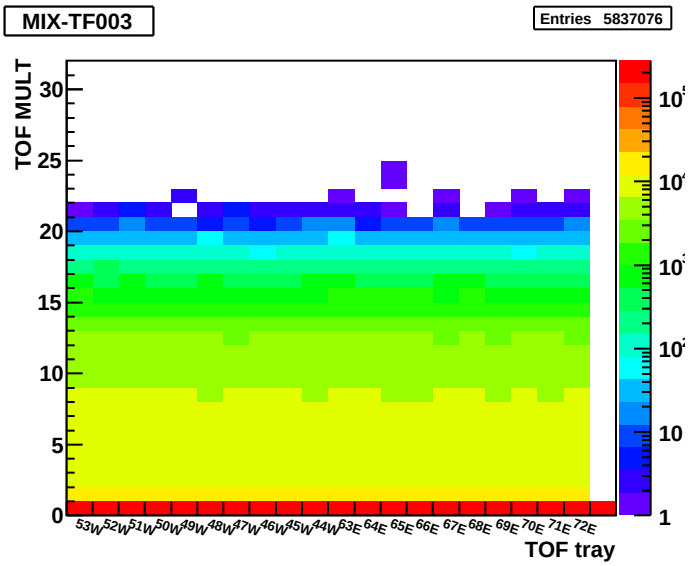

Endcap EMC L0 Input - Patch Sum
Entries 1.250802e+07
Patch Sum
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

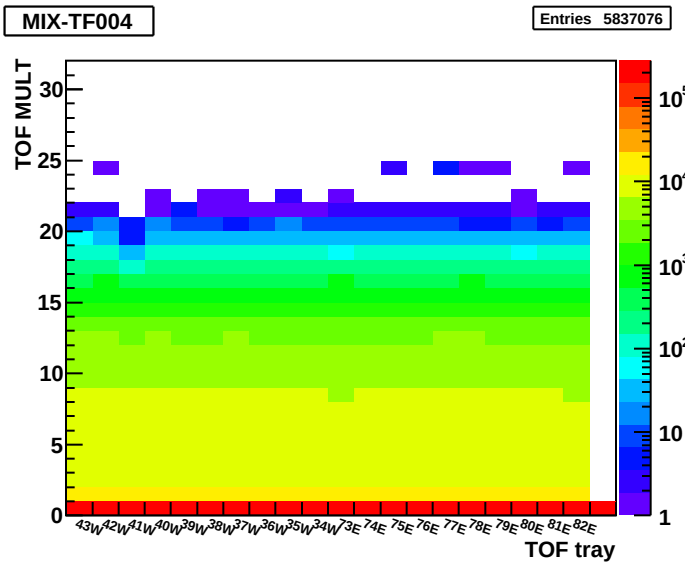

Barrel Jet Patches
Entries 2501604
JP ADC
JP ID

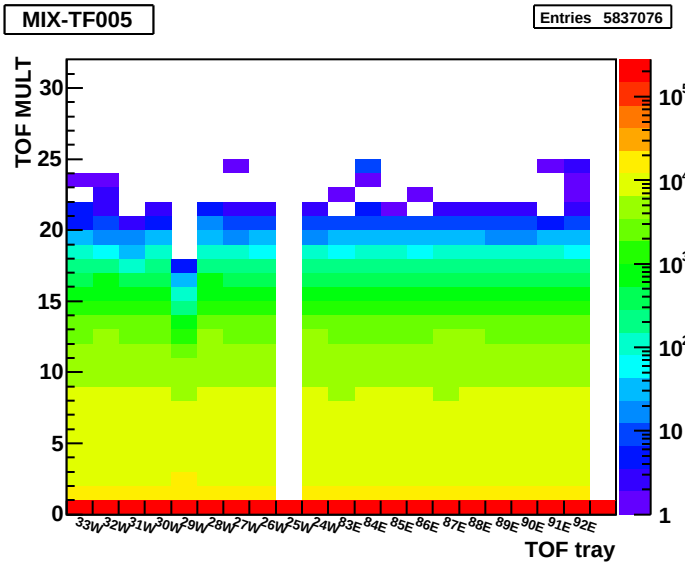

Hybrid Jet Patches
Entries 277956
JP ADC
JP ID

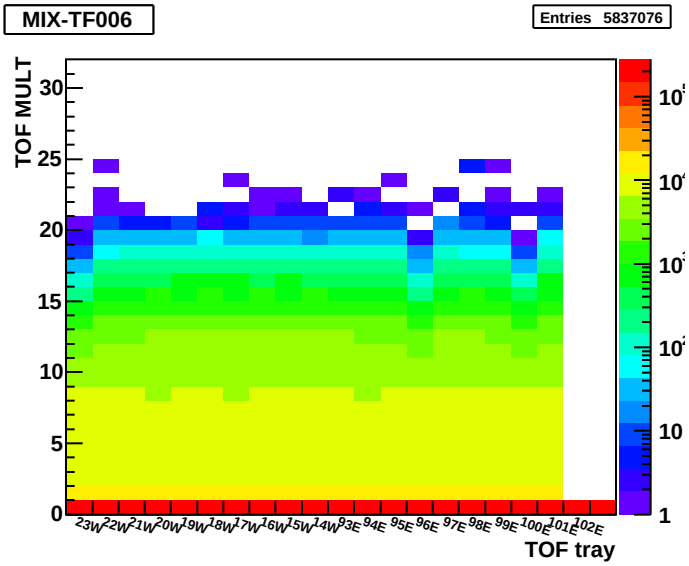

MIX-TF001
Entries 5837076
TOF MULT
TOF tray

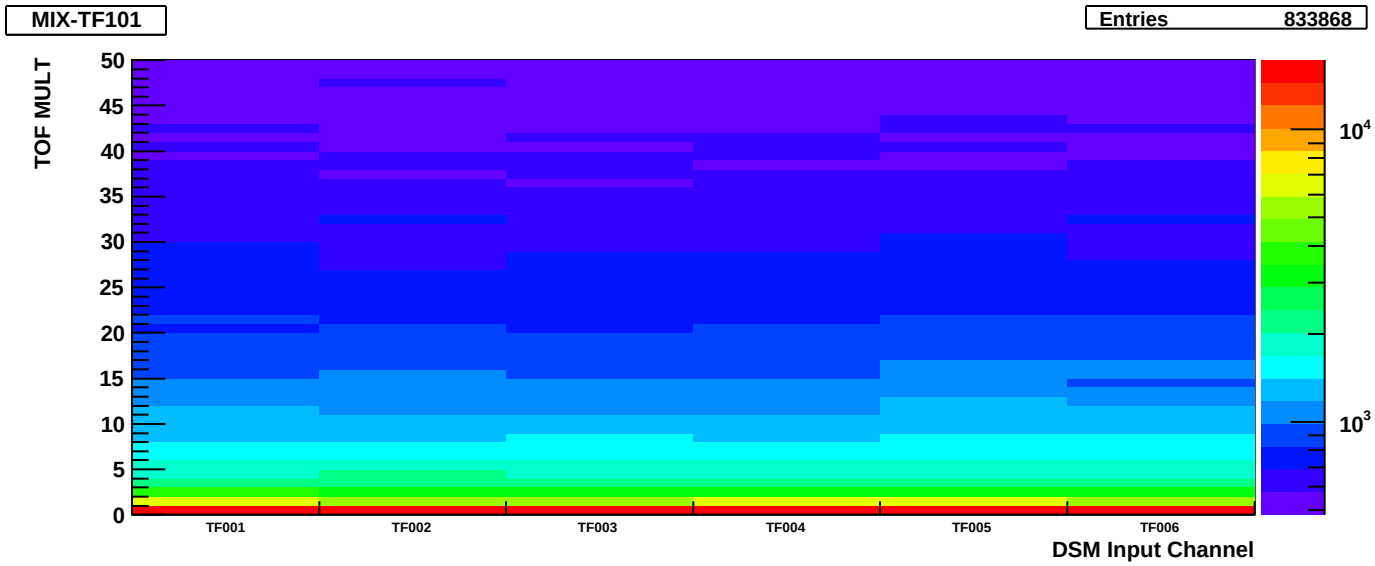

MIX-TF002
Entries 5837076
TOF MULT
TOF tray

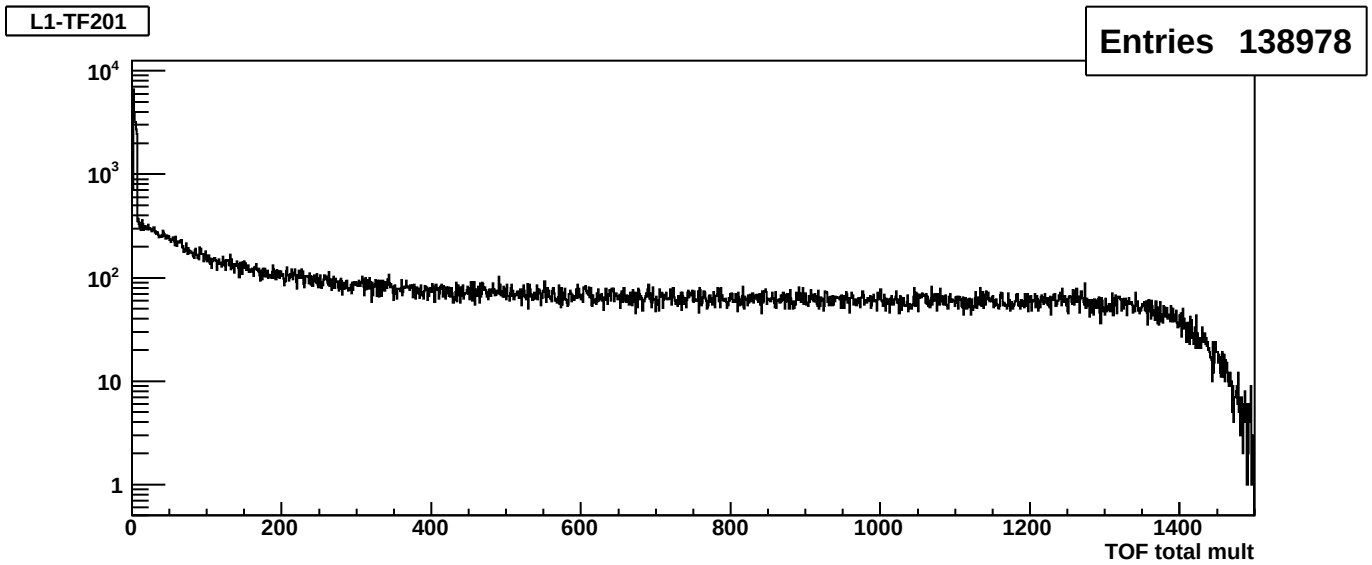

MIX-TF003
Entries 5837076
TOF MULT
TOF tray

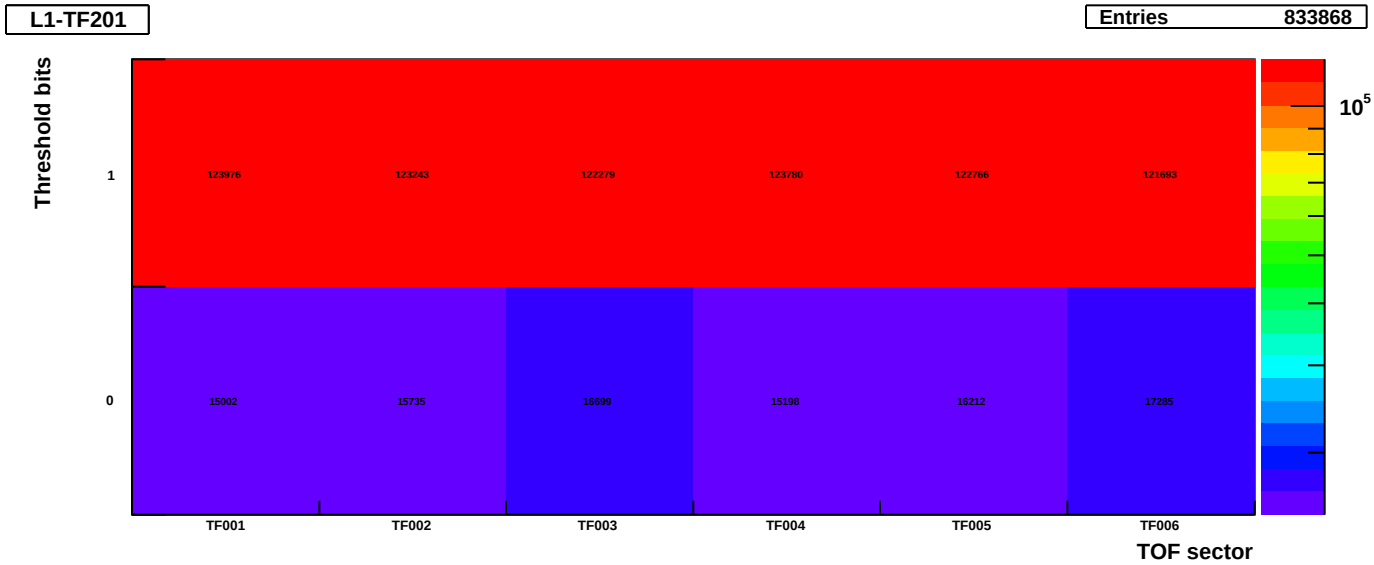

MIX-TF004
Entries 5837076
TOF MULT
TOF tray

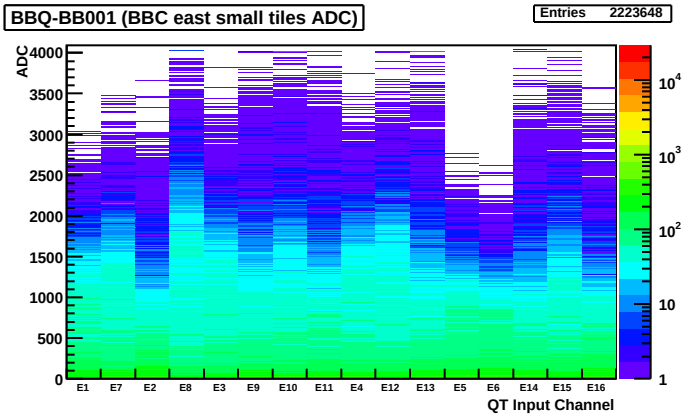

MIX-TF005
Entries 5837076
TOF MULT
TOF tray

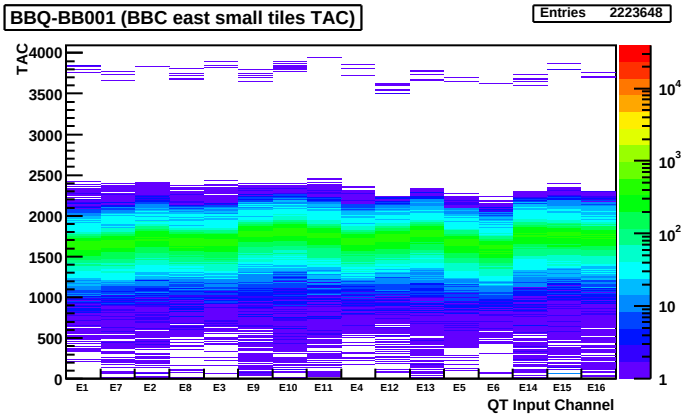

MIX-TF006
Entries 5837076
TOF MULT
TOF tray

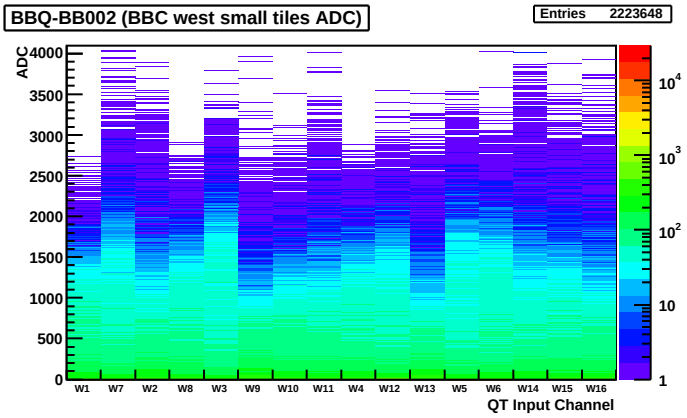

MIX-TF101
Entries 833868
TOF MULT
50
45
40
35
30
25
20
15
10
5
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^4
10^3

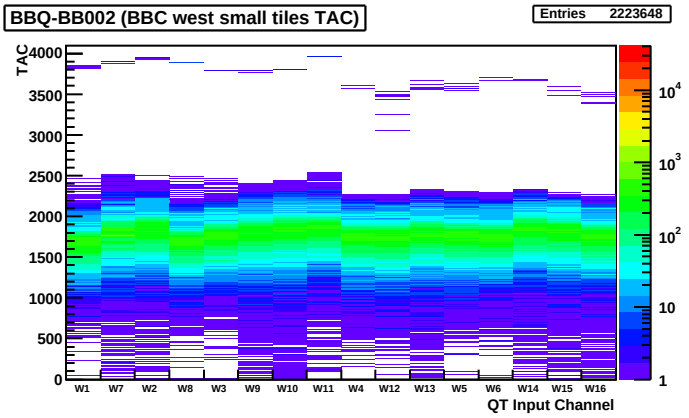

L1-TF201
Entries 138978
10^4
10^3
10^2
10
1
0
200
400
600
800
1000
1200
1400
TOF total mult

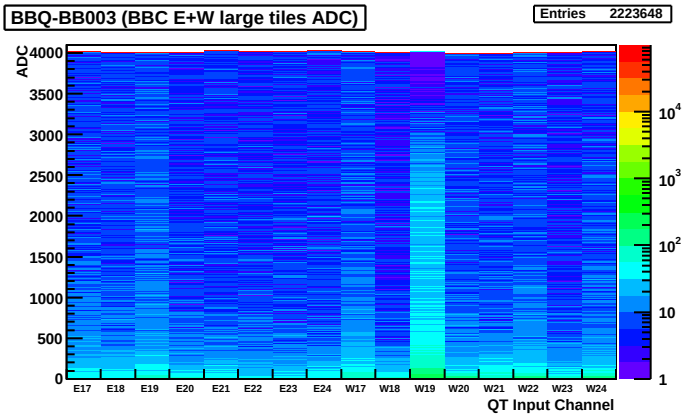

L1-TF201
Entries 833868
Threshold bits
1
0
123976
123243
122279
123780
122766
121693
15002
15735
16699
15198
16212
17285
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector
10^5

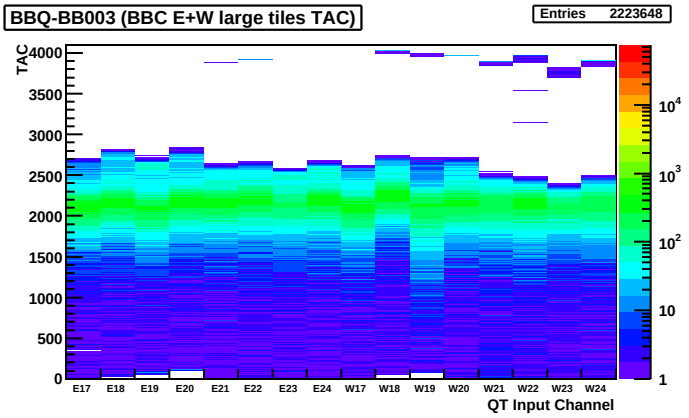

BBQ-BB001 (BBC east small tiles ADC)
Entries 2223648
ADC
QT Input Channel

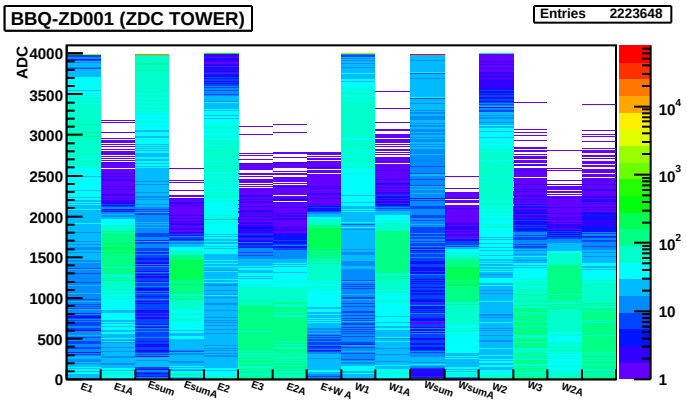

BBQ-BB001 (BBC east small tiles TAC)
Entries 2223648
TAC
QT Input Channel

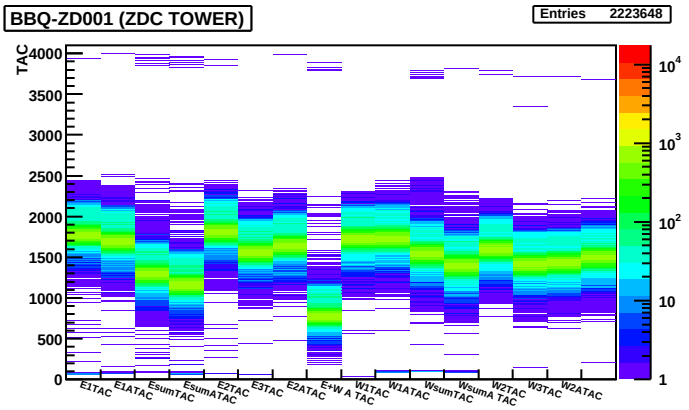

BBQ-BB002 (BBC west small tiles ADC)
Entries 2223648
ADC
QT Input Channel

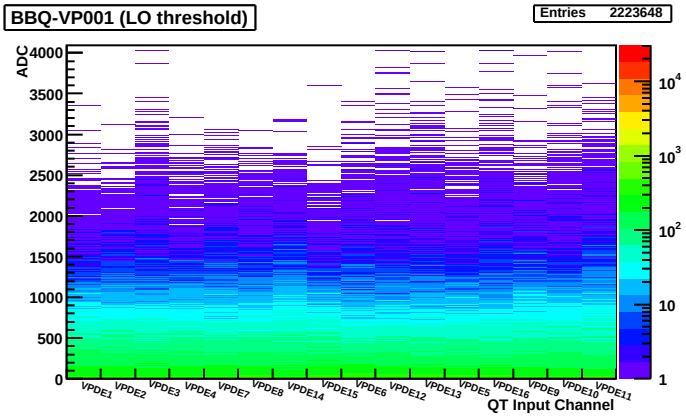

BBQ-BB002 (BBC west small tiles TAC)
Entries 2223648
TAC
QT Input Channel

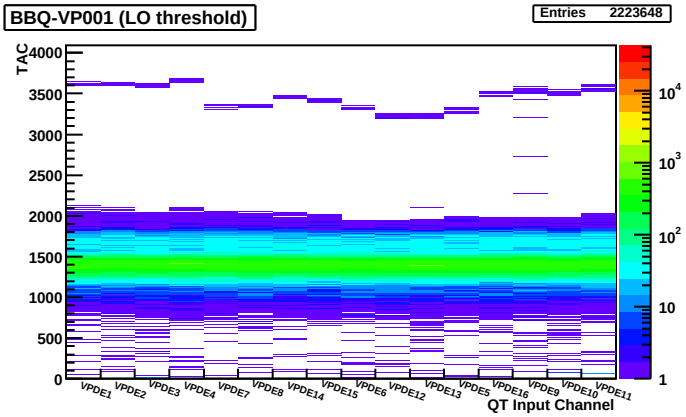

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 2223648
ADC
QT Input Channel

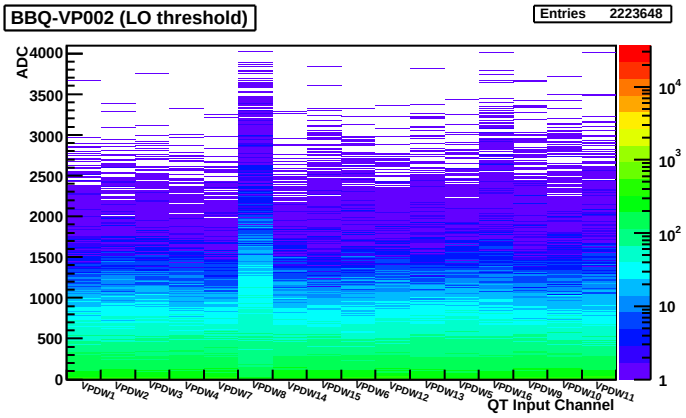

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 2223648
TAC
QT Input Channel

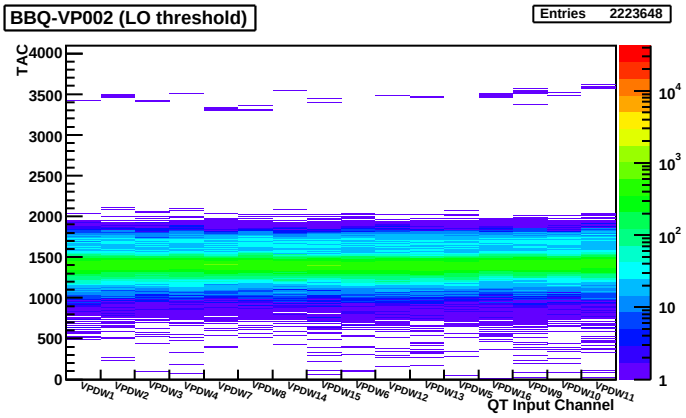

BBQ-ZD001 (ZDC TOWER)
Entries 2223648
ADC

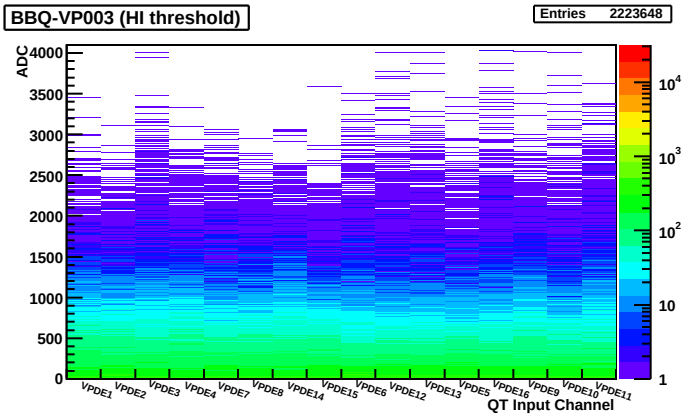

BBQ-ZD001 (ZDC TOWER)
Entries 2223648
TAC

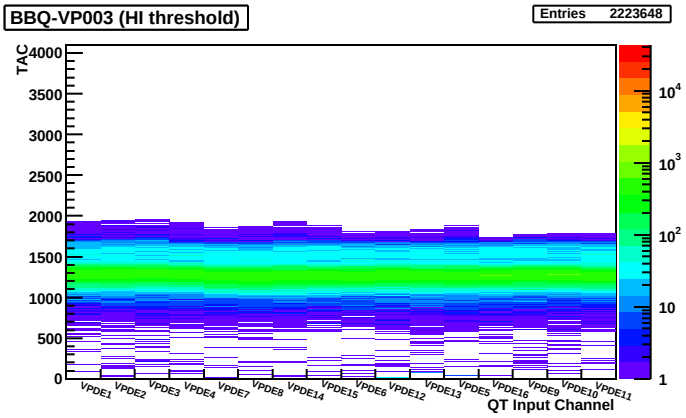

BBQ-VP001 (LO threshold)
Entries 2223648
ADC
QT Input Channel

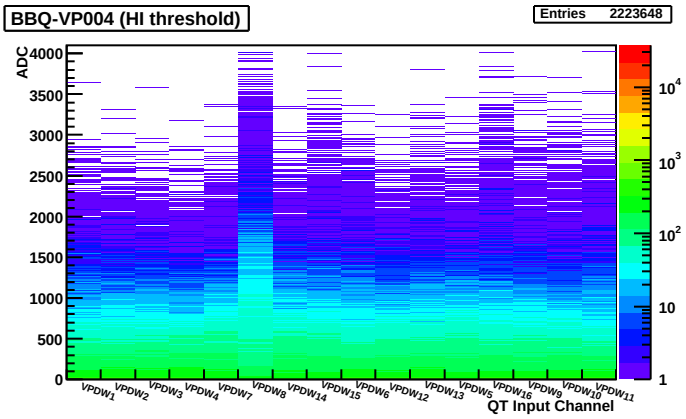

BBQ-VP001 (LO threshold)
Entries 2223648
TAC
QT Input Channel

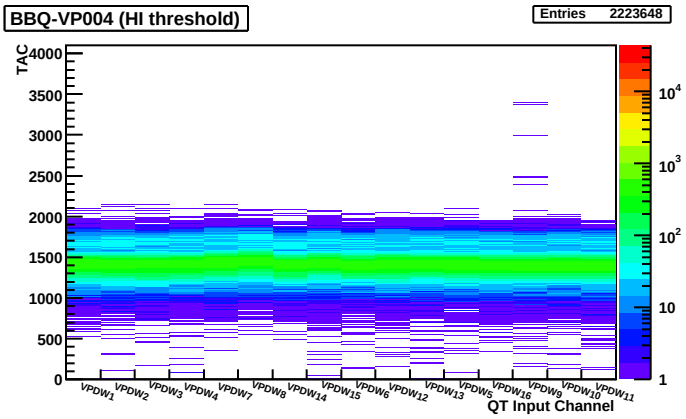

BBQ-VP002 (LO threshold)
Entries 2223648
ADC
QT Input Channel

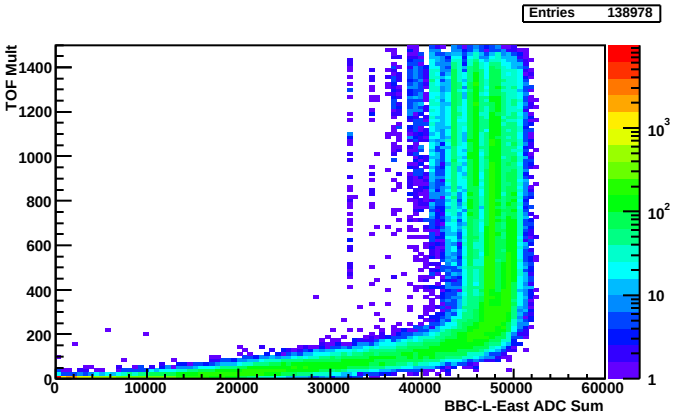

BBQ-VP002 (LO threshold)
Entries 2223648
TAC
QT Input Channel

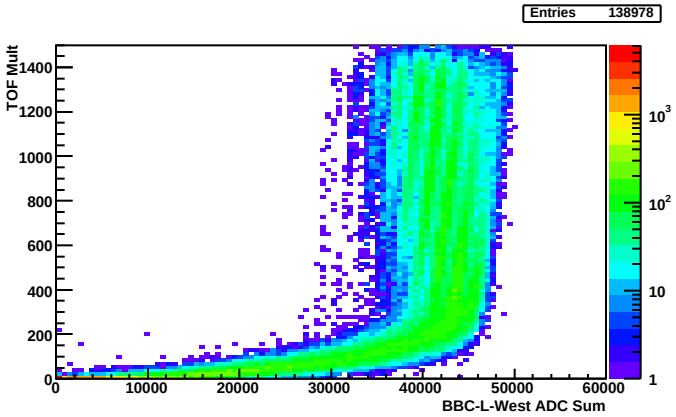

BBQ-VP003 (HI threshold)
Entries 2223648
ADC
QT Input Channel

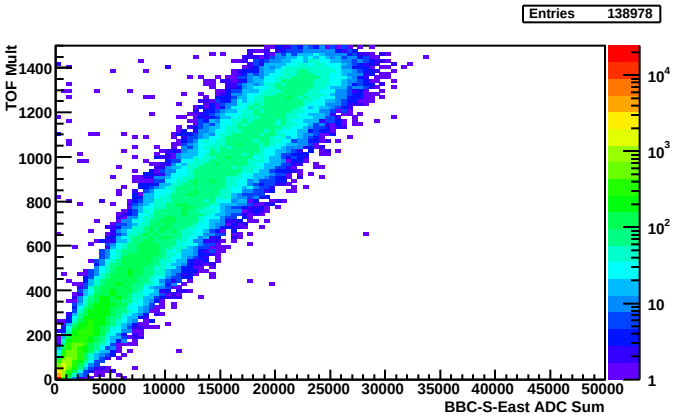

BBQ-VP003 (HI threshold)
Entries 2223648
TAC
QT Input Channel

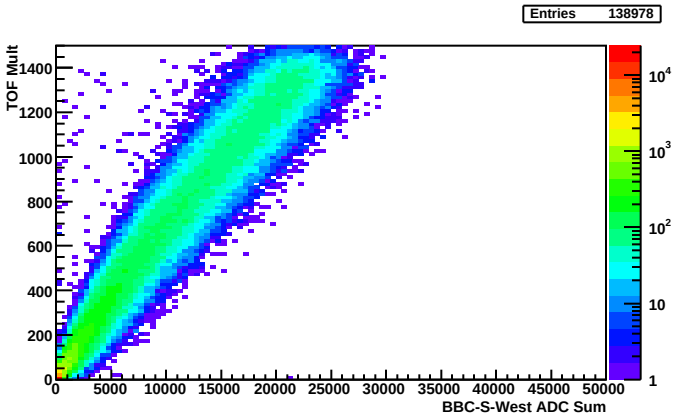

BBQ-VP004 (HI threshold)
Entries 2223648
ADC
QT Input Channel

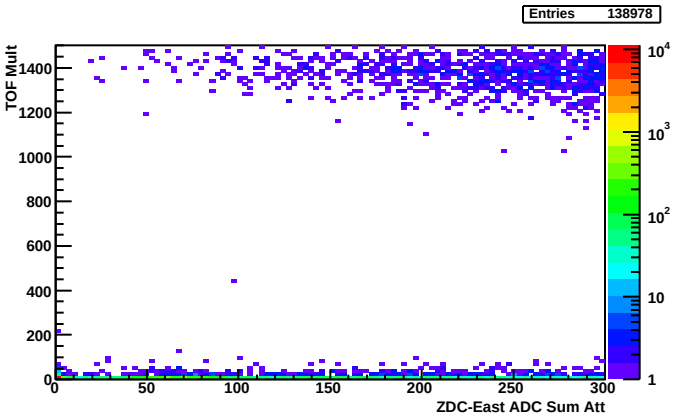

BBQ-VP004 (HI threshold)
Entries 2223648
TAC
QT Input Channel

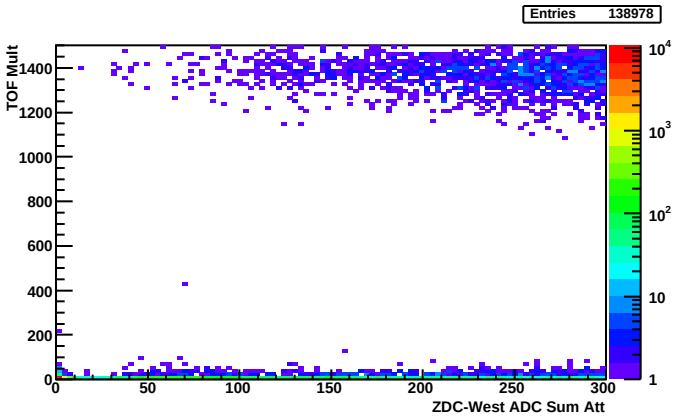

Entries 138978
TOF Mult
BBC-L-East ADC Sum


Entries 138978
TOF Mult
BBC-L-West ADC Sum


Entries 138978
TOF Mult
BBC-S-East ADC Sum


Entries 138978
TOF Mult
BBC-S-West ADC Sum


Entries 138978
TOF Mult
ZDC-East ADC Sum Att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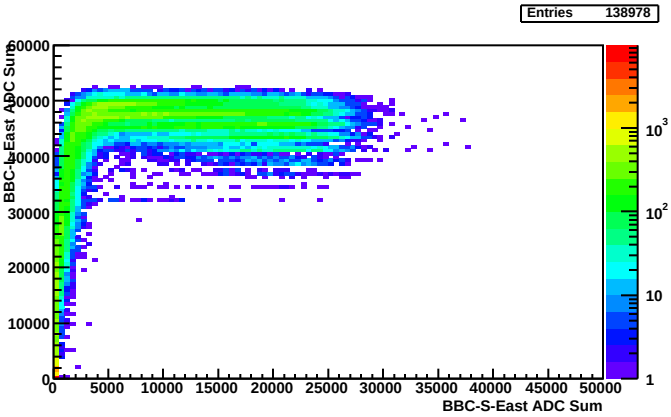
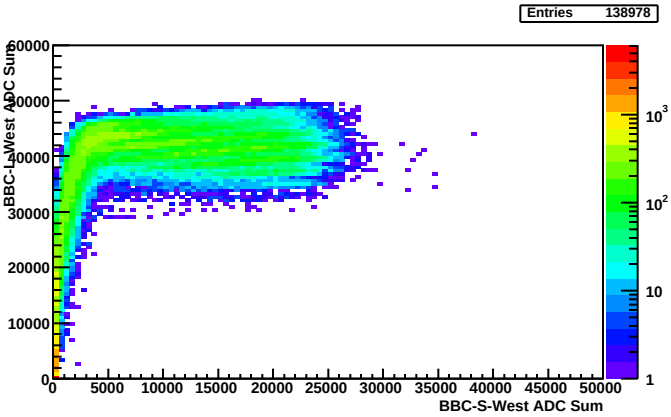
TOF Mult
ZDC-West ADC Sum Att


Entries 138978
BBC-L-East ADC Sum
BBC-S-East ADC Sum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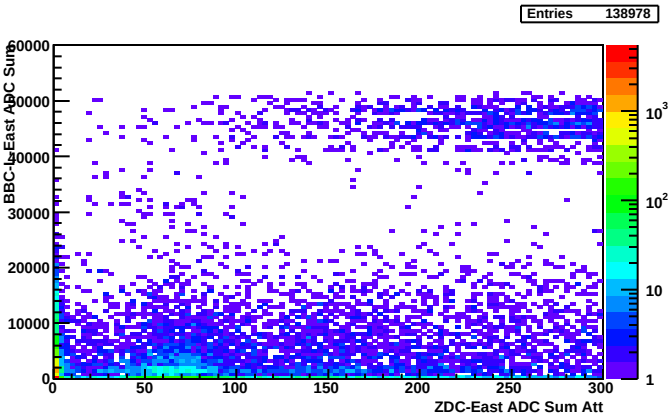
BBC-L-West ADC Sum
BBC-S-West ADC Sum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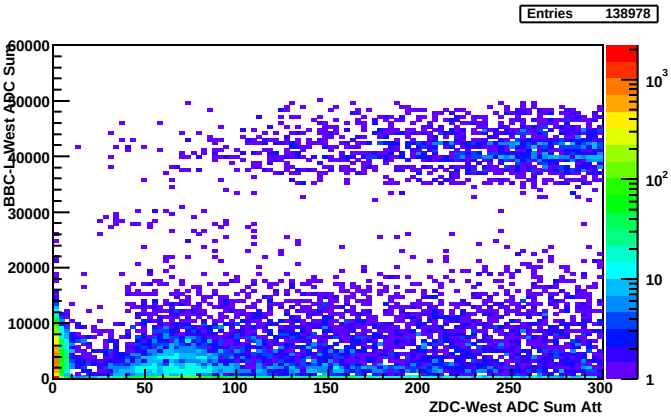
BBC-L-East ADC Sum
ZDC-East ADC Sum Att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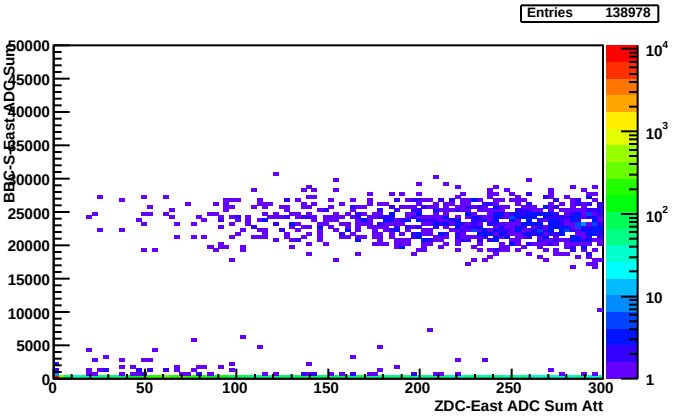
BBC-L-West ADC Sum
ZDC-West ADC Sum Att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BBC-S-East ADC Sum
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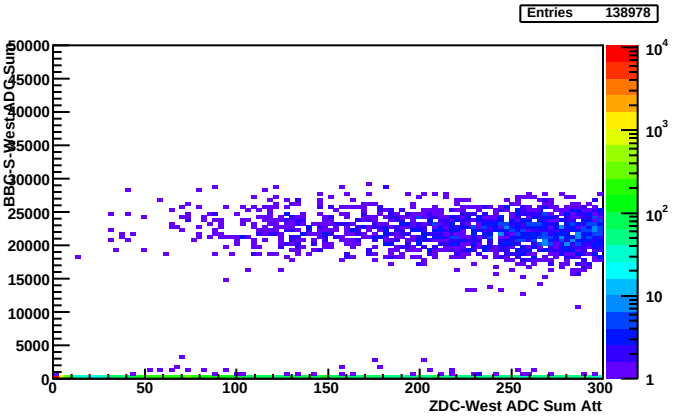
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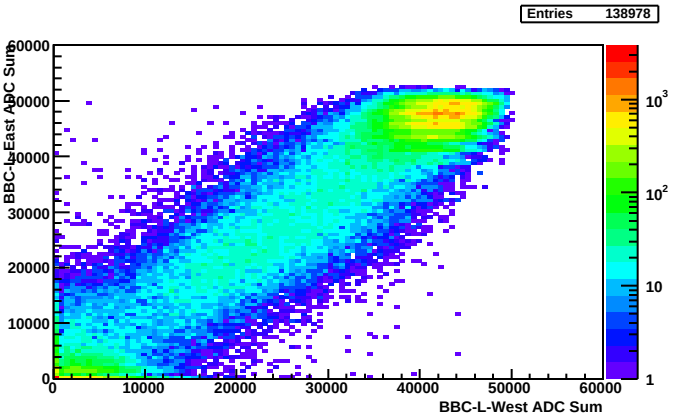
ZDC-West ADC Sum Att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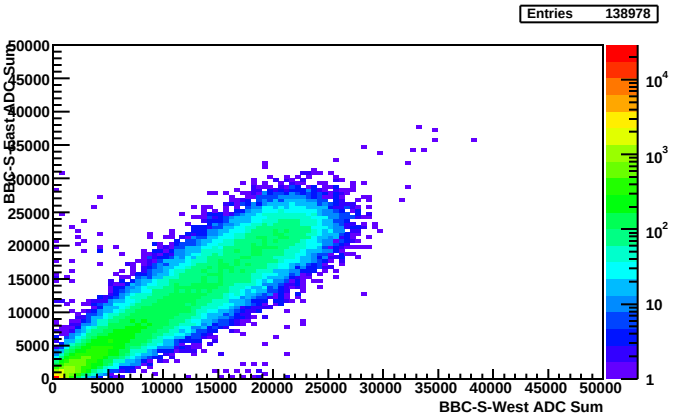
BBC-L-East ADC Sum
BBC-L-West ADC Sum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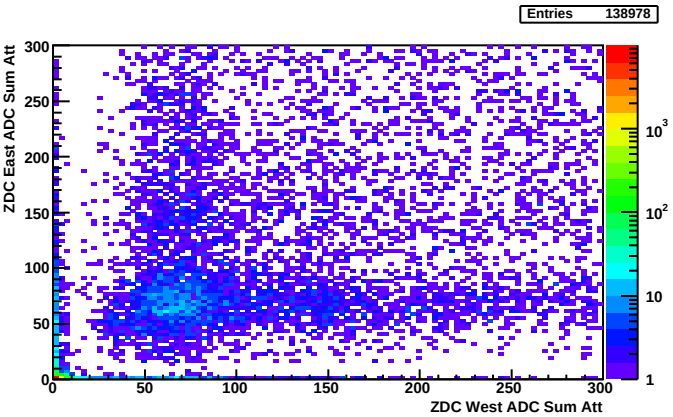
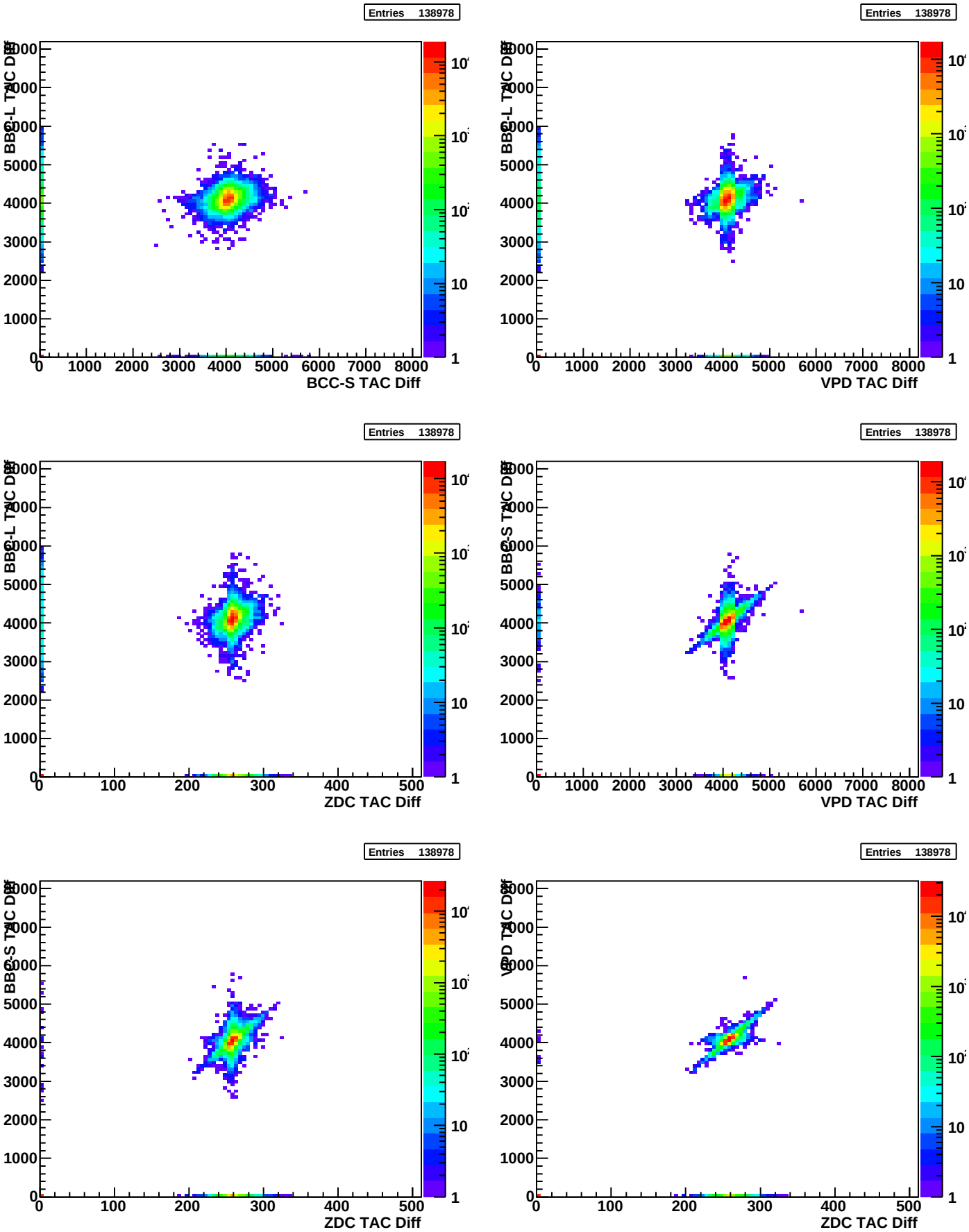
BBC-S-East ADC Sum
BBC-S-West ADC Sum


Entries 138978
ZDC East ADC Sum Att
ZDC West ADC Sum Att


Entries 138978
BBC-L TAC Diff
BCC-S TAC Diff
Entries 138978
BBC-L TAC Diff
VPD TAC Diff
Entries 138978
BBC-L TAC Diff
ZDC TAC Diff
Entries 138978
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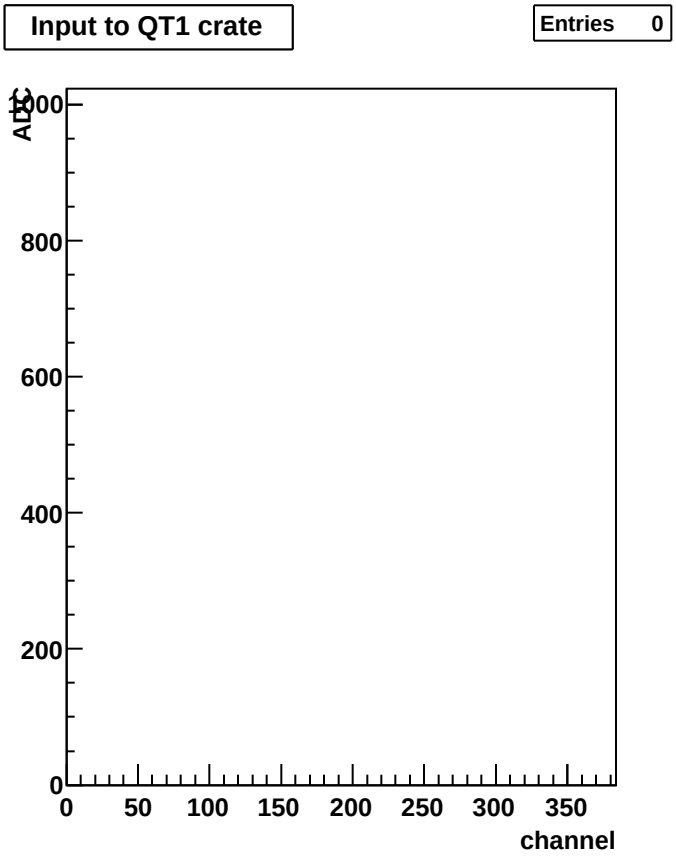
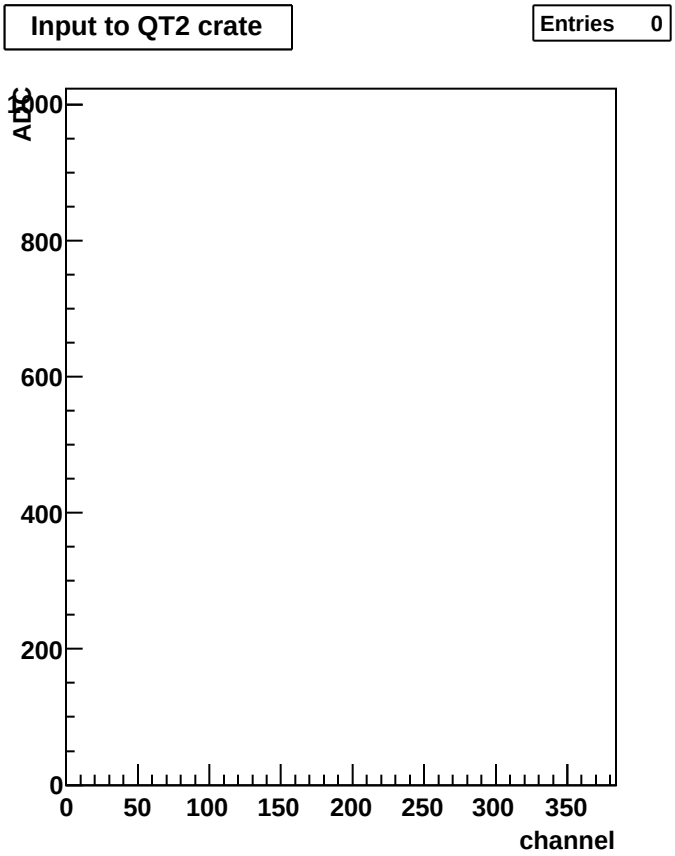
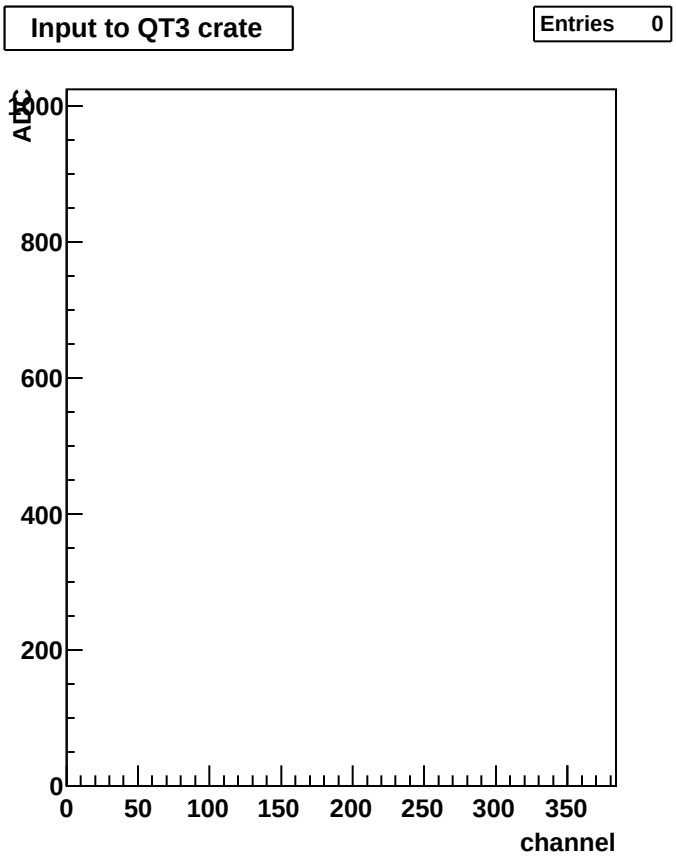
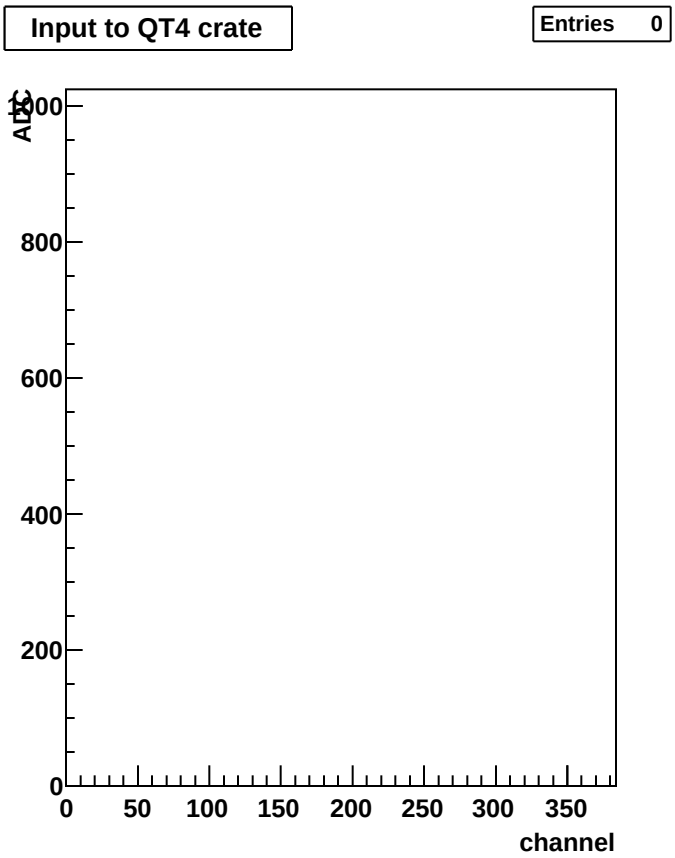
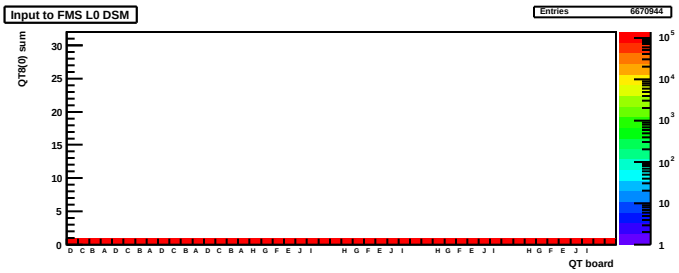
VPD TAC Diff
Entries 138978
BBC-S TAC Diff
ZDC TAC Diff
Entries 138978
VPD TAC Diff
ZDC TAC Diff

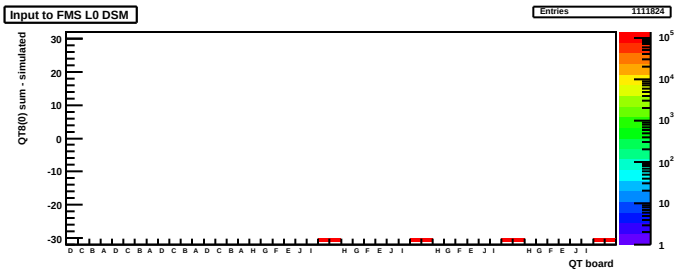

Input to QT1 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

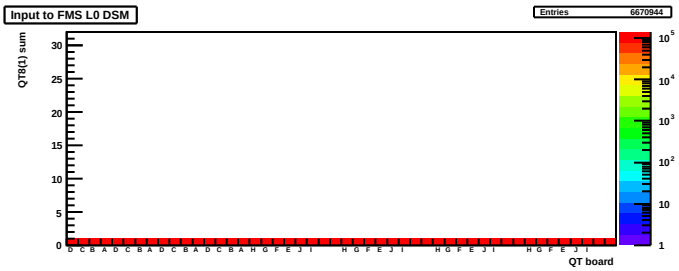

Input to QT2 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

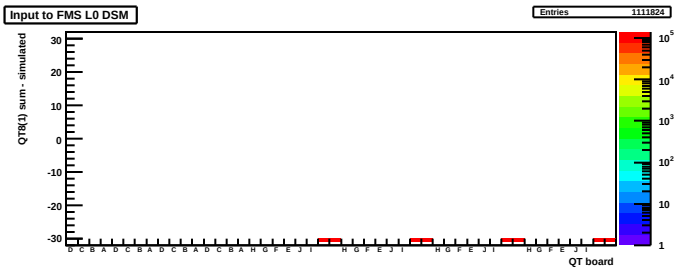

Input to QT3 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

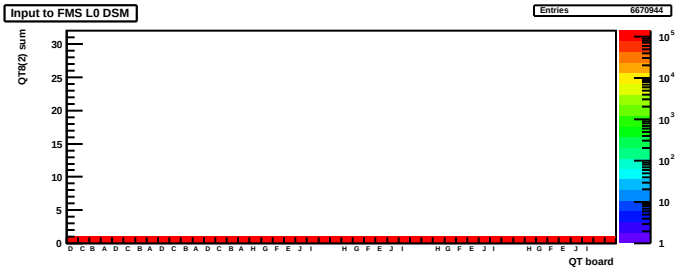

Input to QT4 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

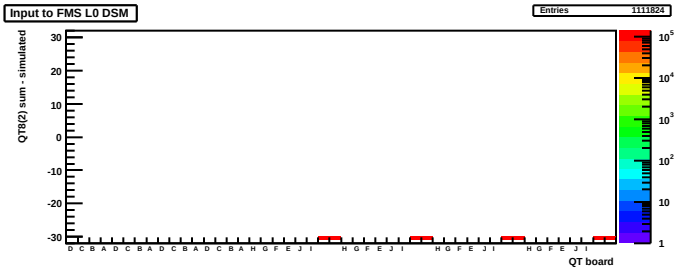

Input to FMS L0 DSM
Entries 6670944
QT8(0) sum
QT board

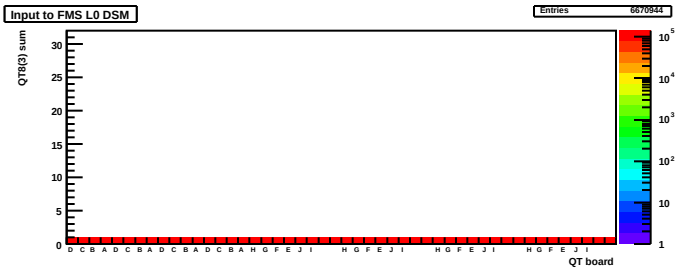

Input to FMS L0 DSM
Entries 1111824
QT8(0) sum - simulated
QT board

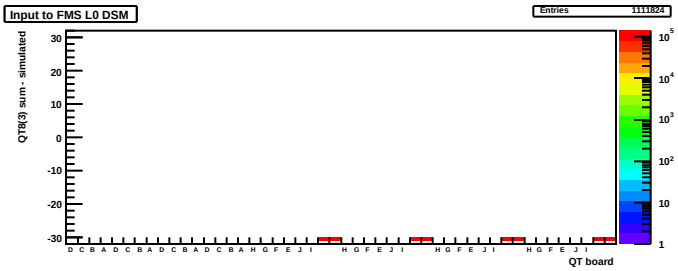

Input to FMS L0 DSM
Entries 6670944
QT8(1) sum
QT board

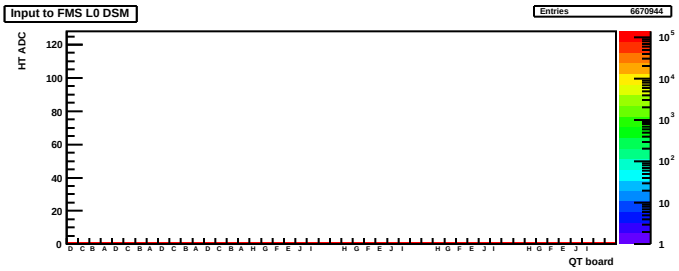

Input to FMS L0 DSM
Entries 1111824
QT8(1) sum - simulated
QT board

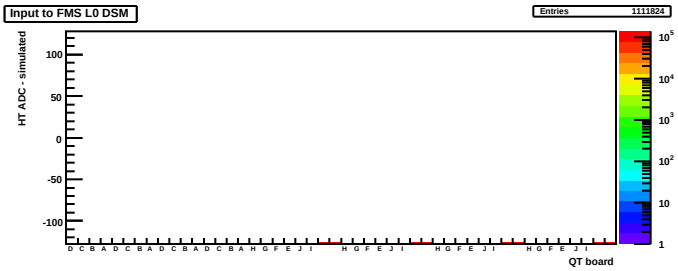

Input to FMS L0 DSM
Entries 6670944
QT8(2) sum
QT board

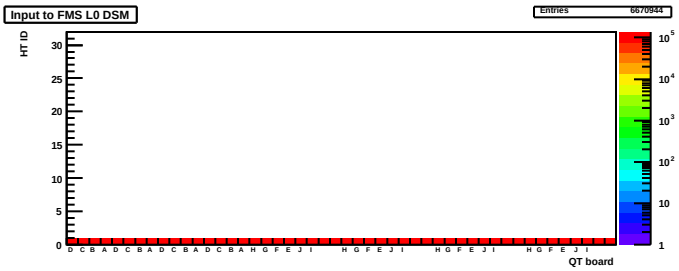

Input to FMS L0 DSM
Entries 1111824
QT8(2) sum - simulated
QT board

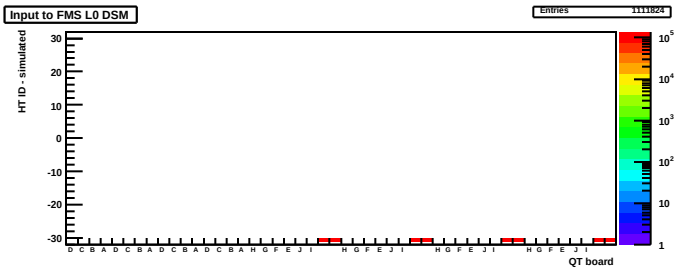

Input to FMS L0 DSM
Entries 6670944
QT8(3) sum
QT board

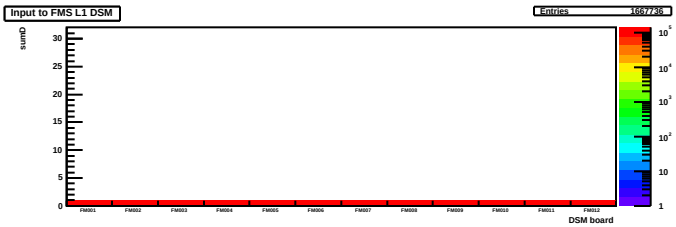

Input to FMS L0 DSM
Entries 1111824
QT8(3) sum - simulated
QT board

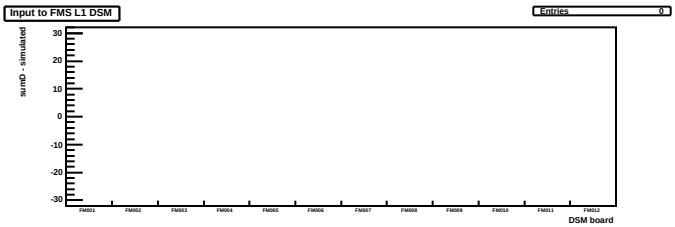

Input to FMS L0 DSM
Entries 6670944
HT ADC
QT board

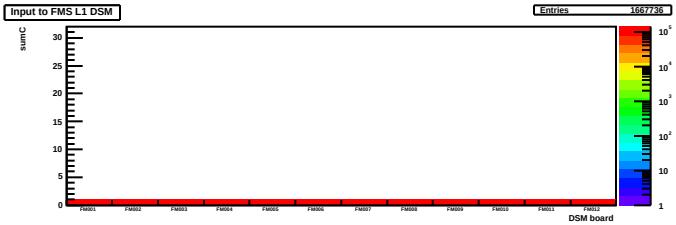

Input to FMS L0 DSM
Entries 1111824
HT ADC - simulated
QT board

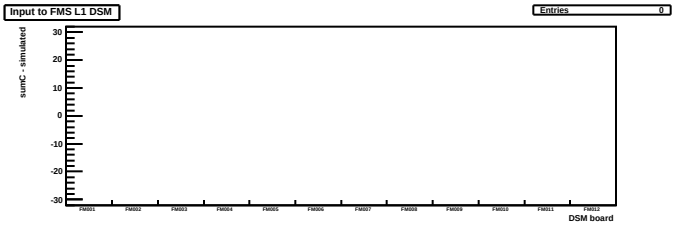

Input to FMS L0 DSM
Entries 6670944
HT ID
QT board

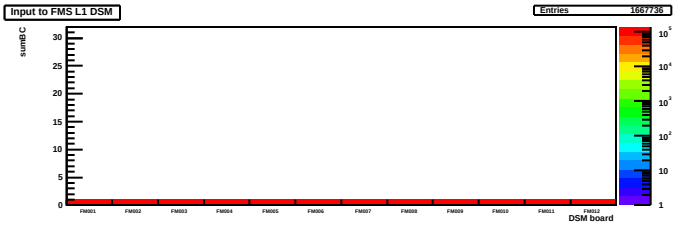

Input to FMS L0 DSM
Entries 1111824
HT ID - simulated
QT board

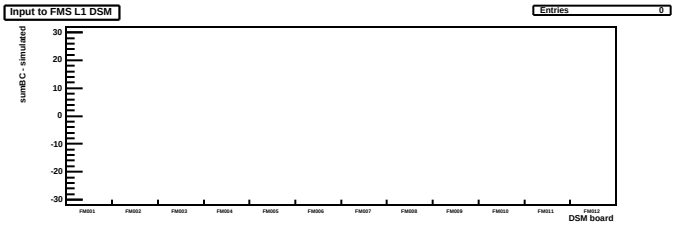

Input to FMS L1 DSM
Entries 1667736
sumD
DSM board

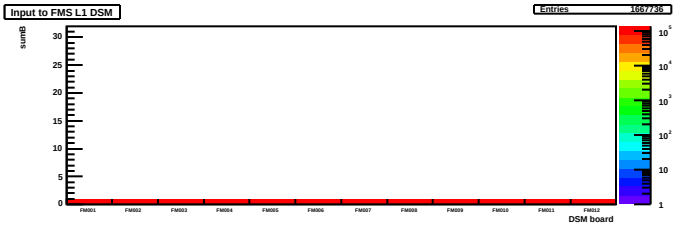

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

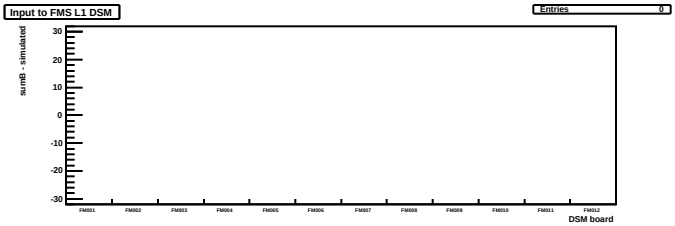

Input to FMS L1 DSM
Entries 1667736
sumC
DSM board

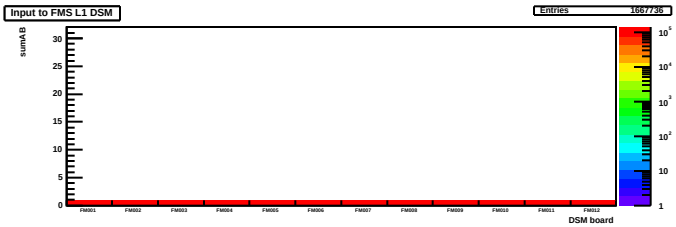

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

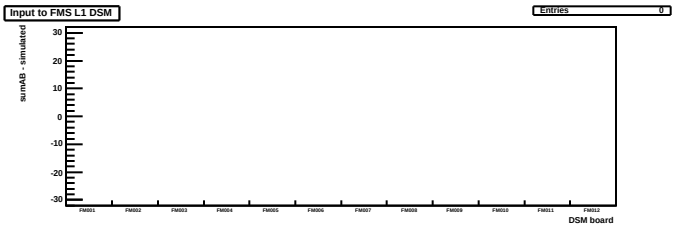

Input to FMS L1 DSM
Entries 1667736
sumBC
DSM board

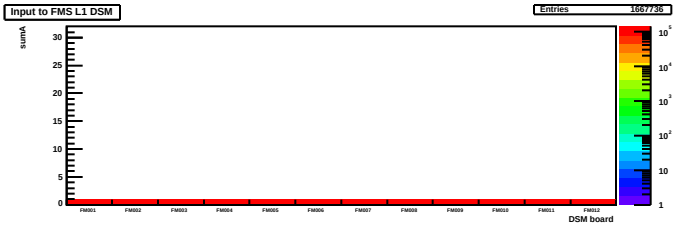

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

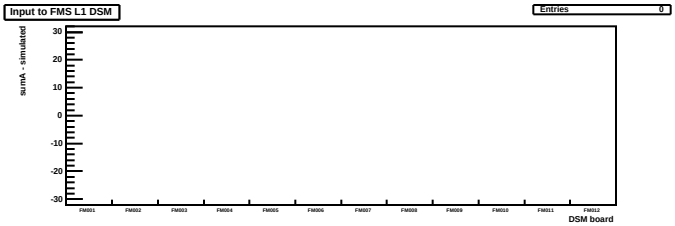

Input to FMS L1 DSM
Entries 1667736
sumB
DSM board

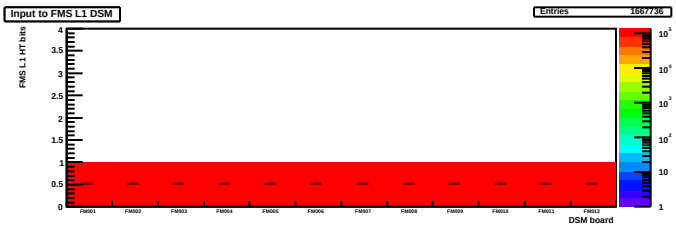

Input to FMS L1 DSM
Entries 0
sumB - simulated
DSM board

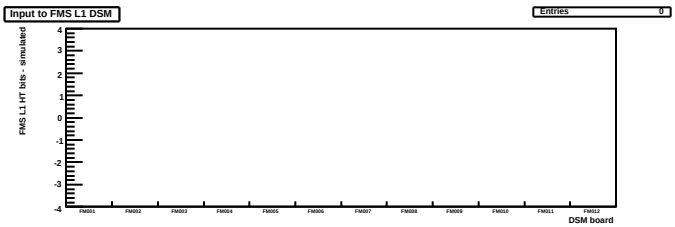

Input to FMS L1 DSM
Entries 1667736
sumAB
DSM board

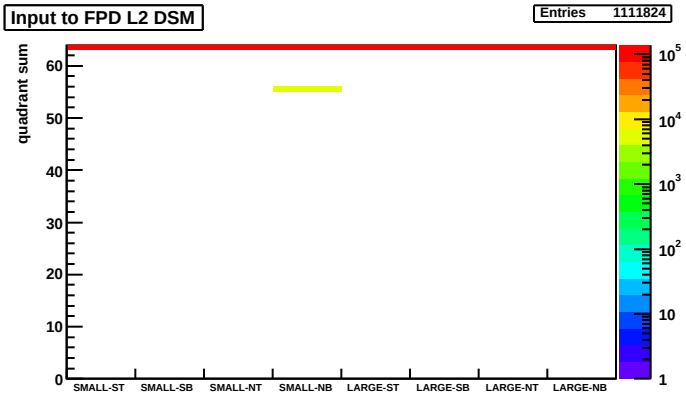

Input to FMS L1 DSM
Entries 0
sumAB - simulated
DSM board

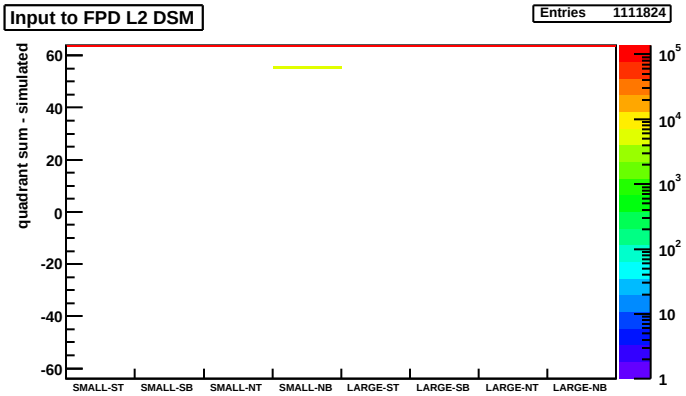

Input to FMS L1 DSM
Entries 1667736
sumA
DSM board

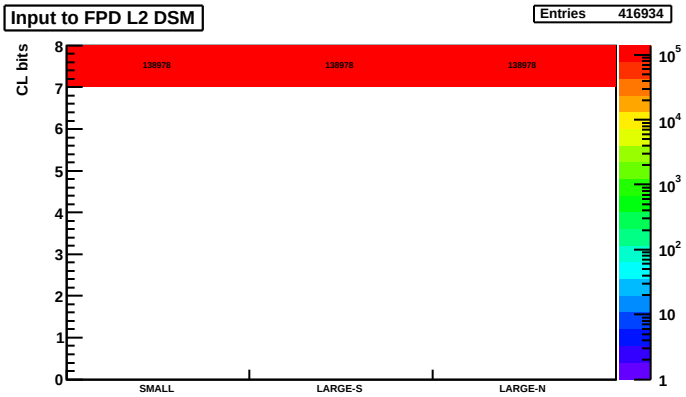

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

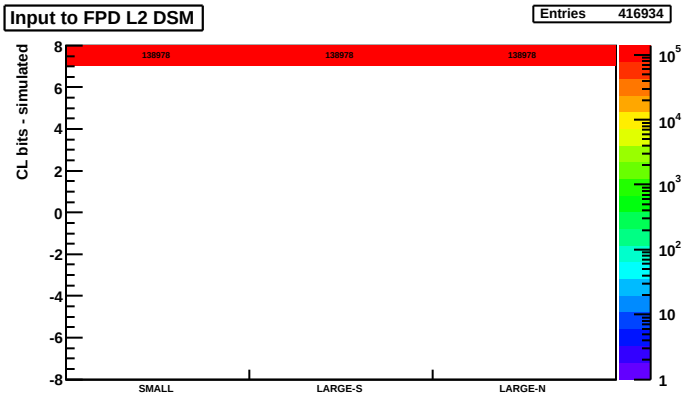

Input to FMS L1 DSM
Entries 1667736
FMS L1 HT bits
DSM board

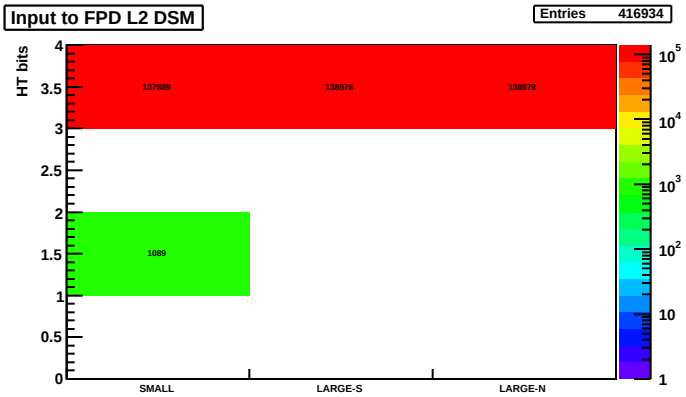

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

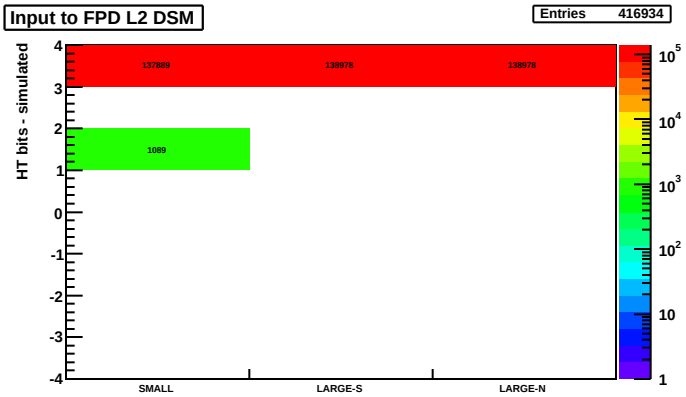

Input to FPD L2 DSM
Entries 1111824
quadrant sum
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

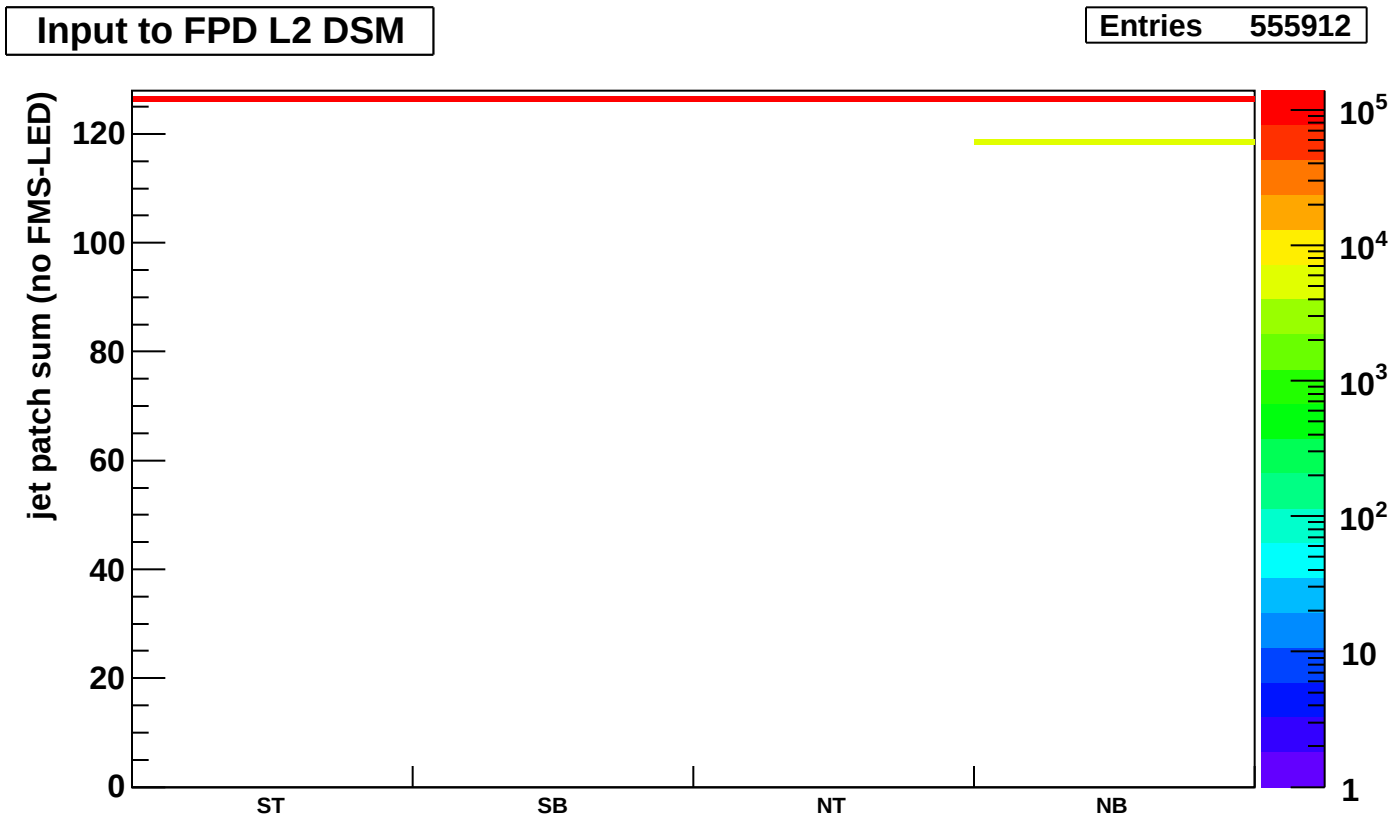

Input to FPD L2 DSM
Entries 1111824
quadrant sum - simulated
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

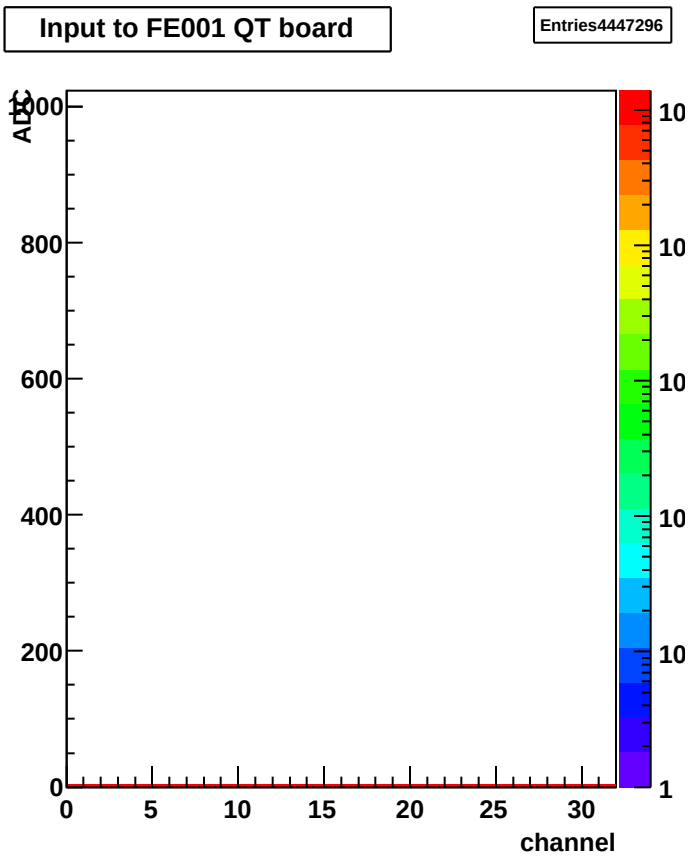

Input to FPD L2 DSM
Entries 416934
CL bits
138978
138978
138978
SMALL
LARGE-S
LARGE-N

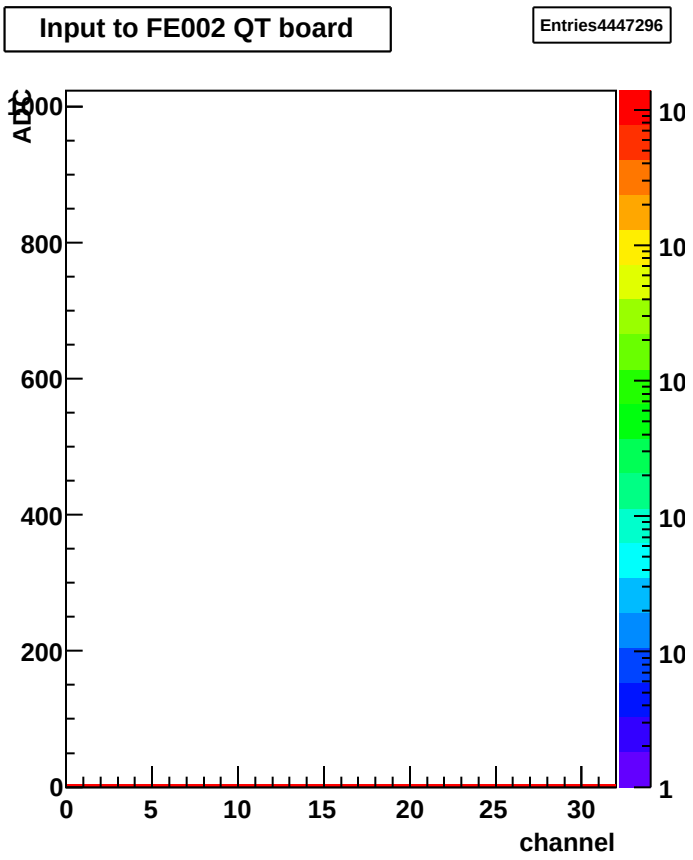

Input to FPD L2 DSM
Entries 416934
CL bits - simulated
138978
138978
138978
SMALL
LARGE-S
LARGE-N

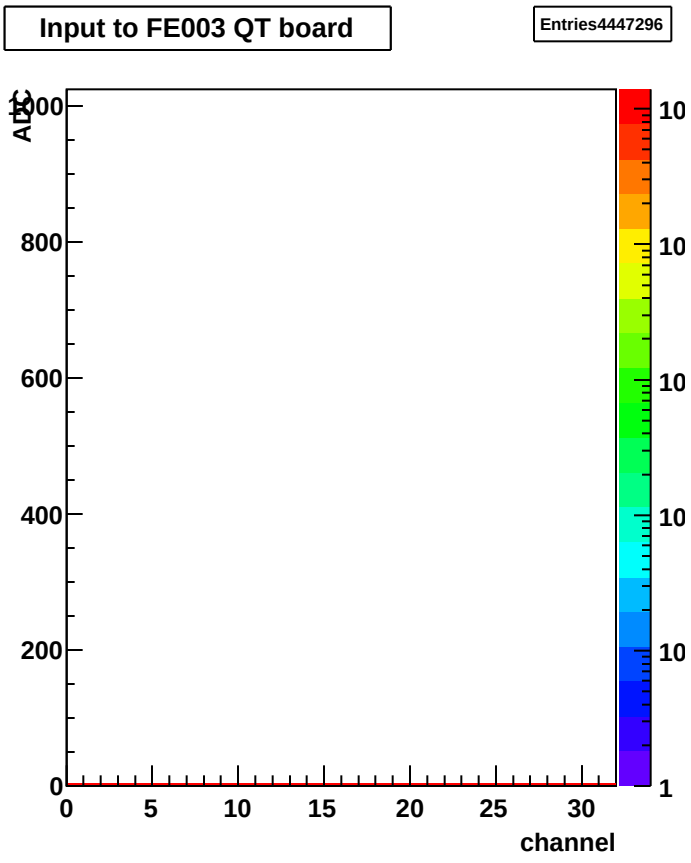

Input to FPD L2 DSM
Entries 416934
HT bits
137889
138978
138978
1089
SMALL
LARGE-S
LARGE-N

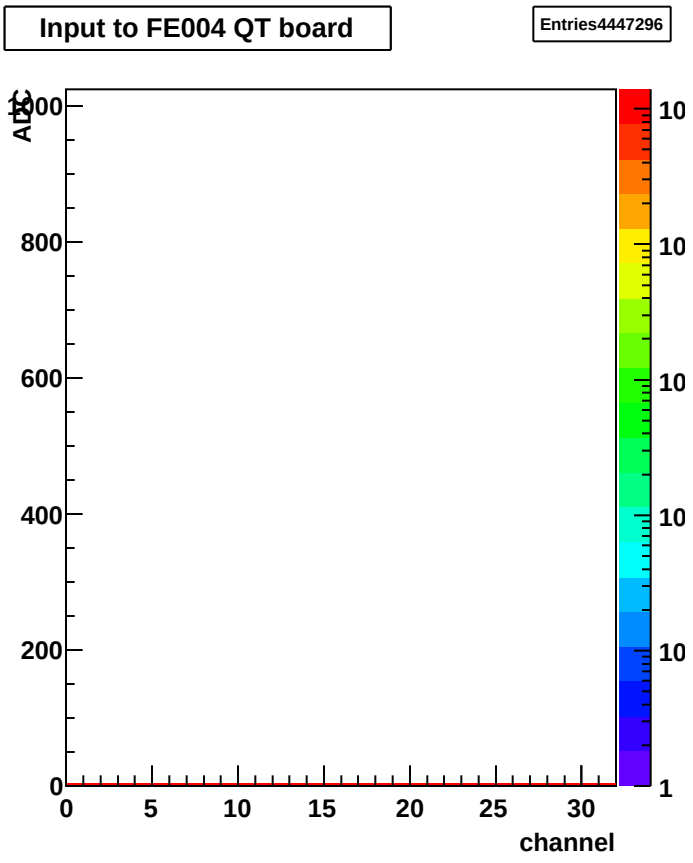

Input to FPD L2 DSM
Entries 416934
HT bits - simulated
137889
138978
138978
1089
SMALL
LARGE-S
LARGE-N

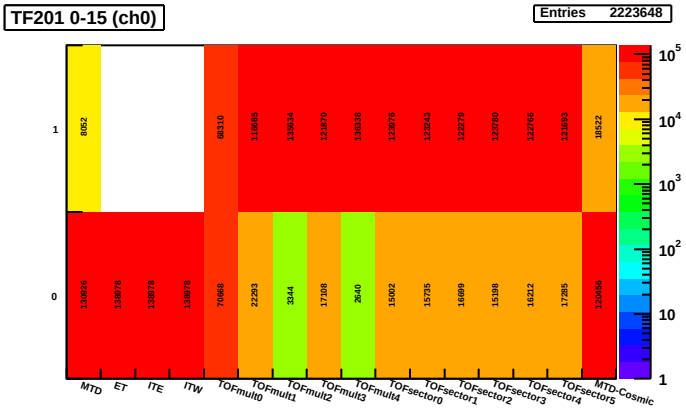

Input to FPD L2 DSM
Entries 555912
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
1
10
10^2
10^3
10^4
10^5

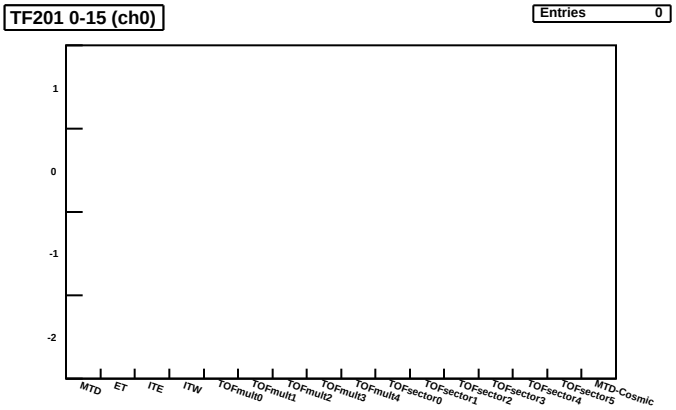

Input to FE001 QT board
Entries4447296
ADC
channel

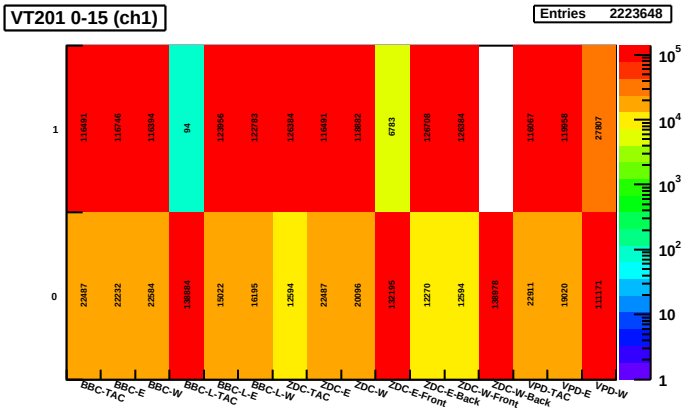

Input to FE002 QT board
Entries4447296
ADC
channel

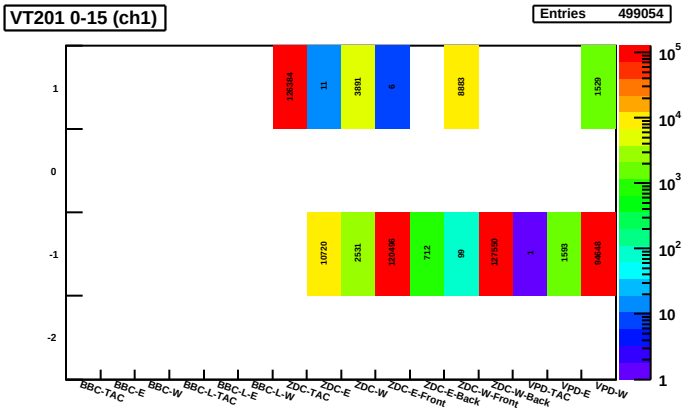

Input to FE003 QT board
Entries4447296
ADC
channel

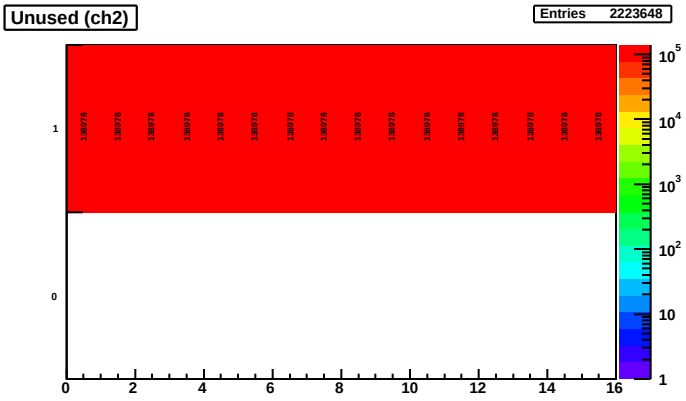

Input to FE004 QT board
Entries4447296
ADC
channel

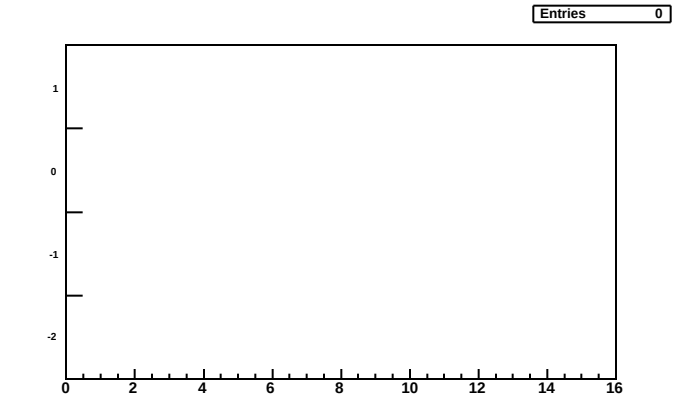

TF201 0-15 (ch0)
Entries 2223648
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

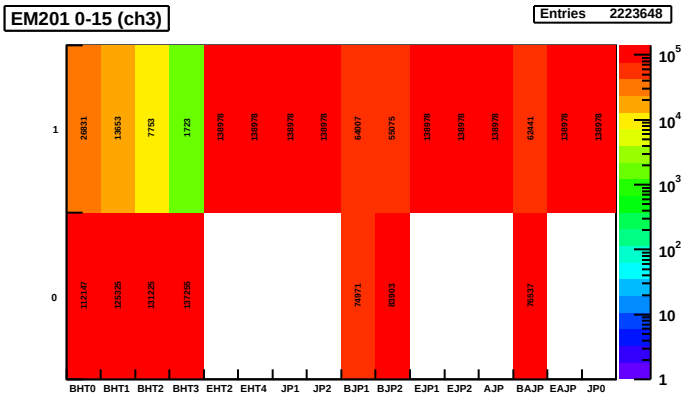

TF201 0-15 (ch0)
Entries 0
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

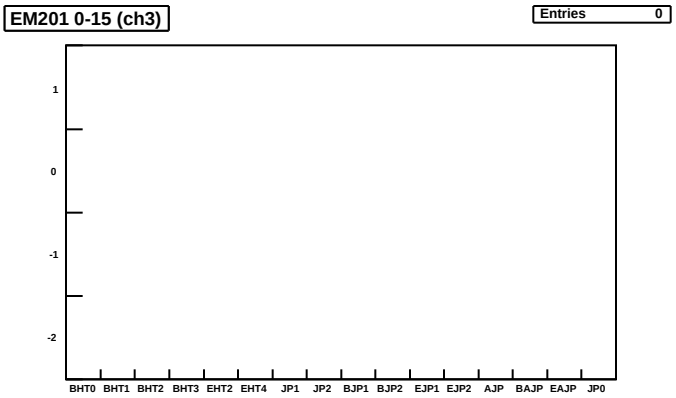

VT201 0-15 (ch1)
Entries 2223648
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W


VT201 0-15 (ch1)
Entries 499054
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

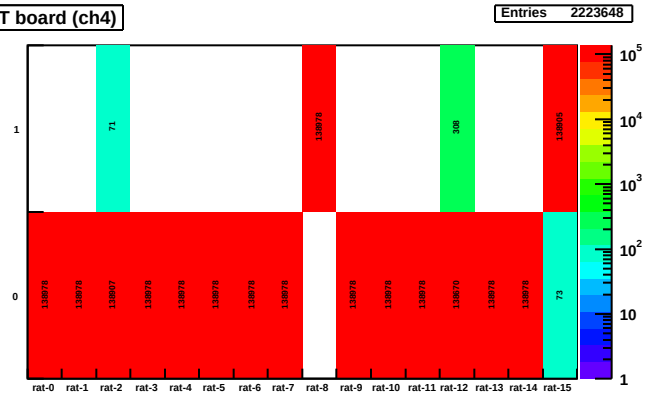

Unused (ch2)
Entries 2223648

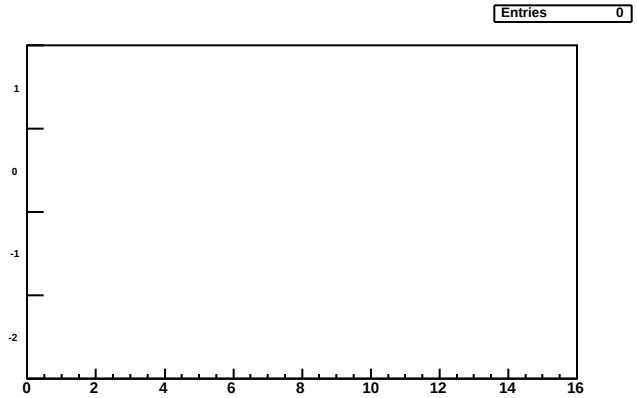

Entries 0


EM201 0-15 (ch3)
Entries 2223648
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

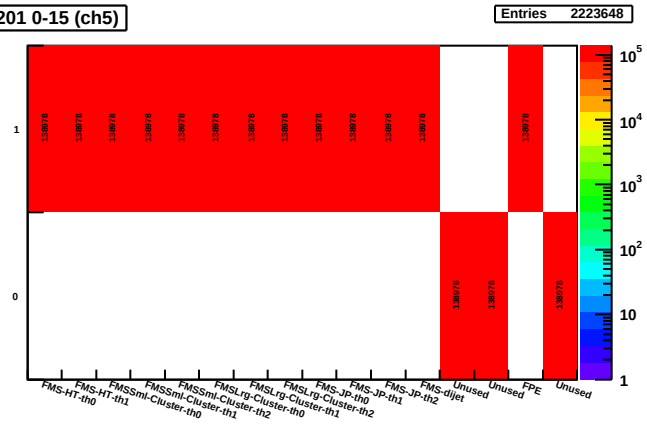

EM201 0-15 (ch3)
Entries 0
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

RAT board (ch4)

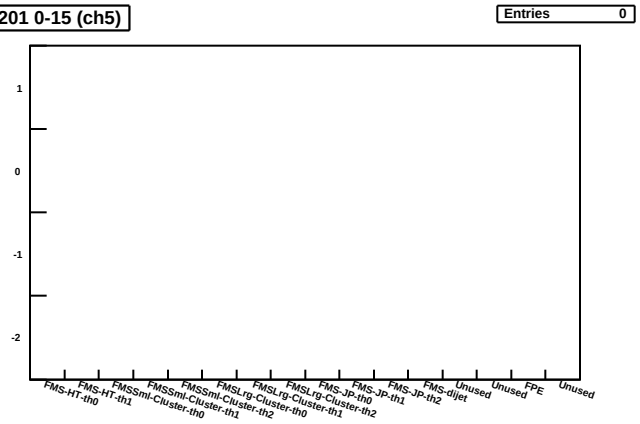




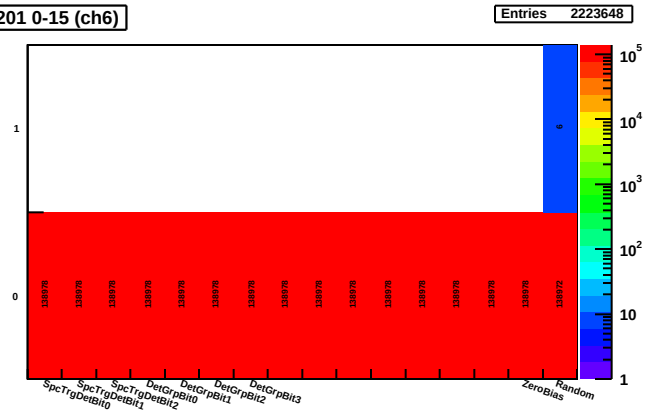
FP201 0-15 (ch5)

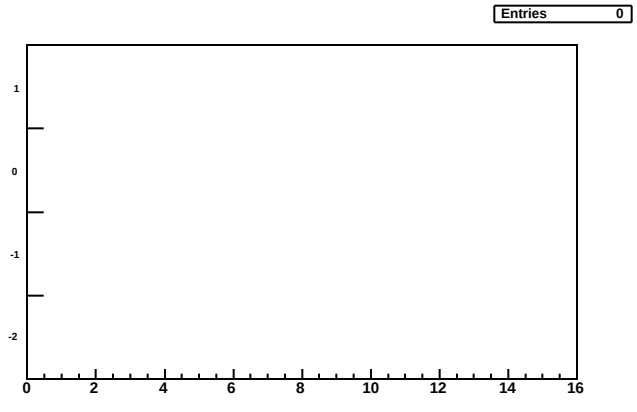
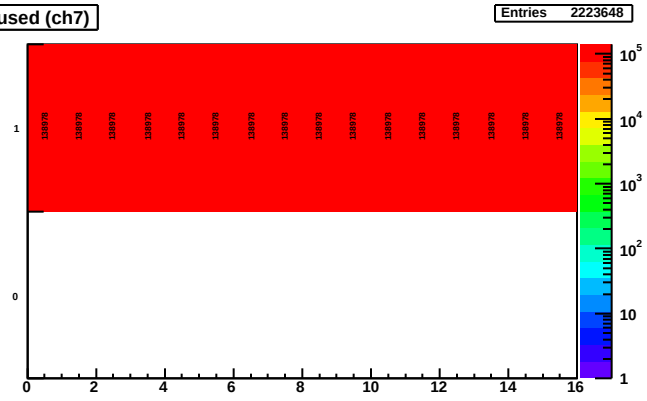
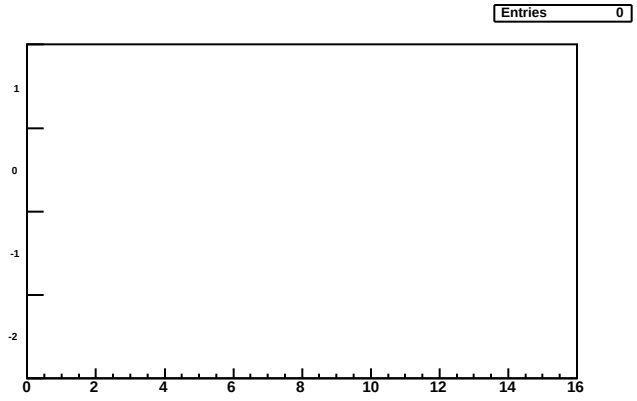


FP201 0-15 (ch5)



ST201 0-15 (ch6)





Unused (ch7)