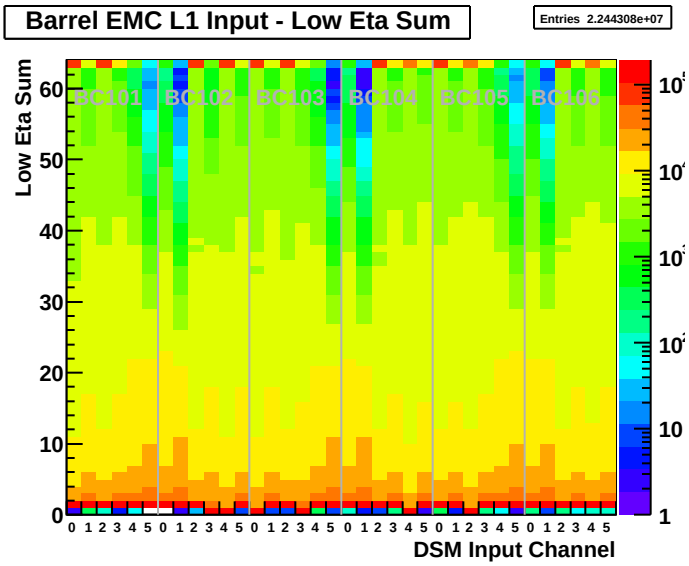
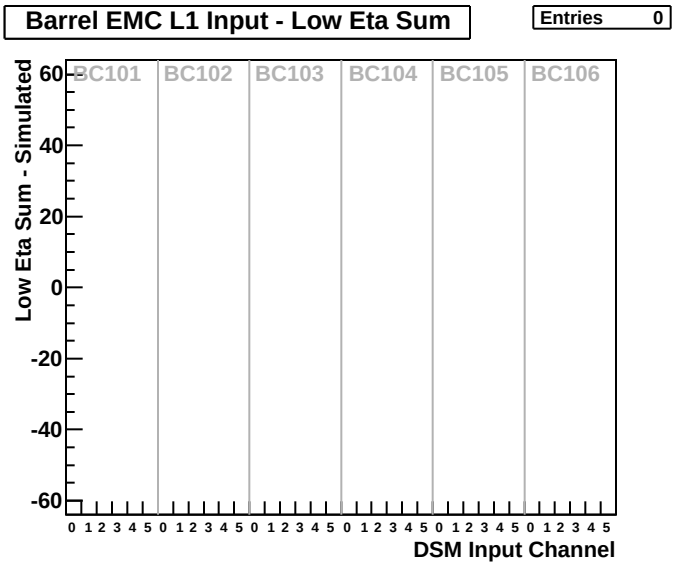
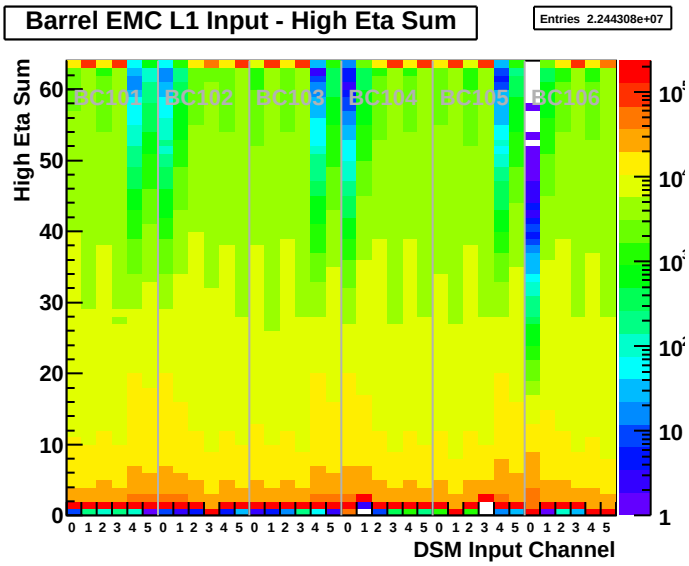
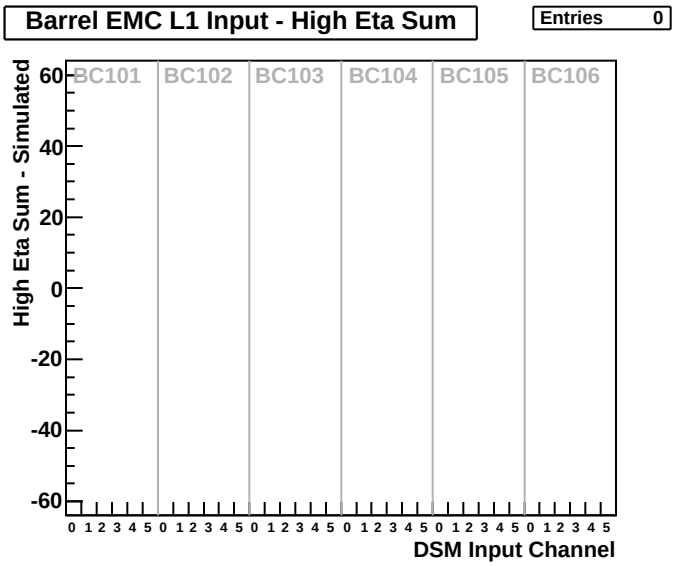
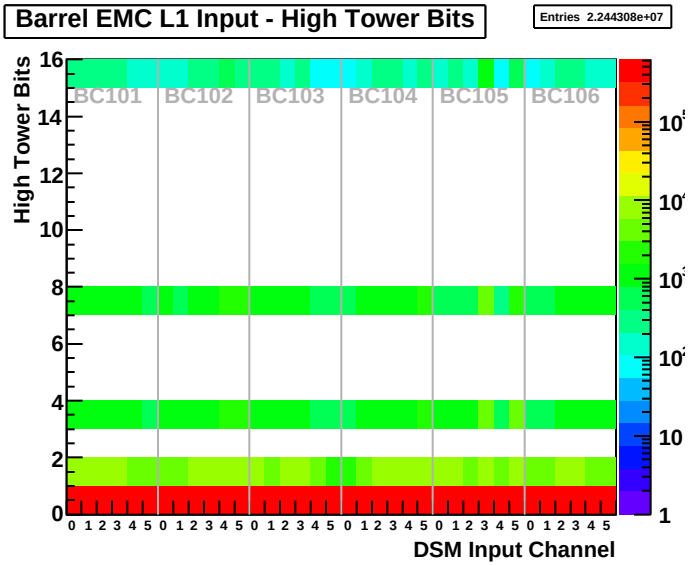
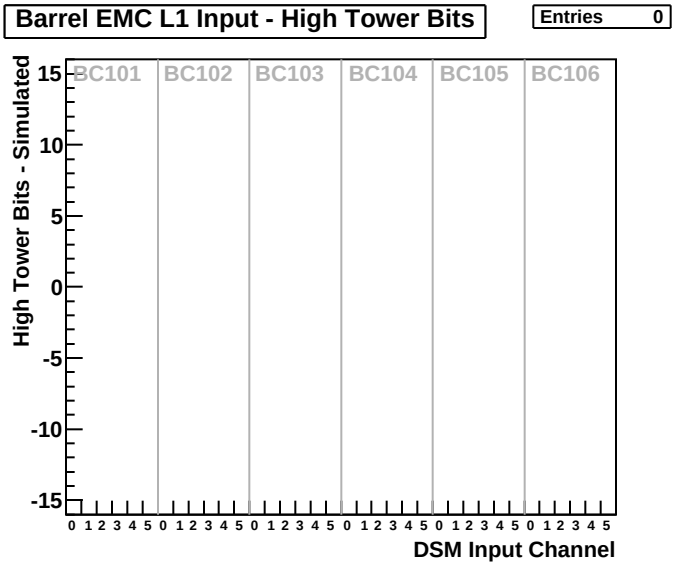

Barrel EMC L1 Input - Low Eta Sum
Entries 2.244308e+07
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

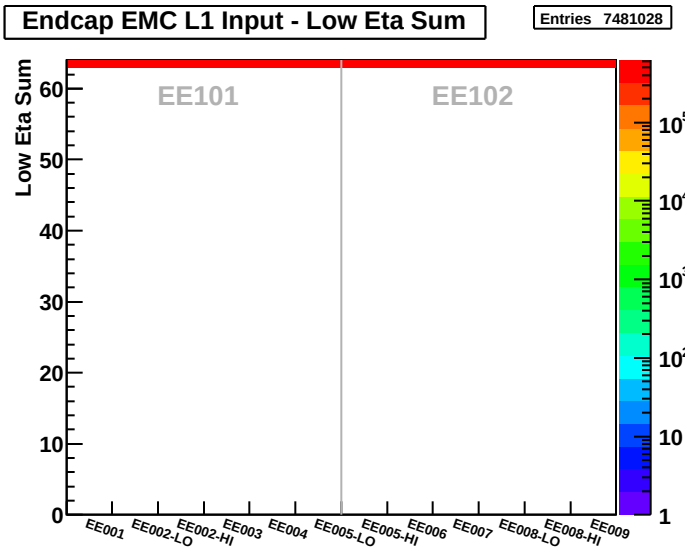

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

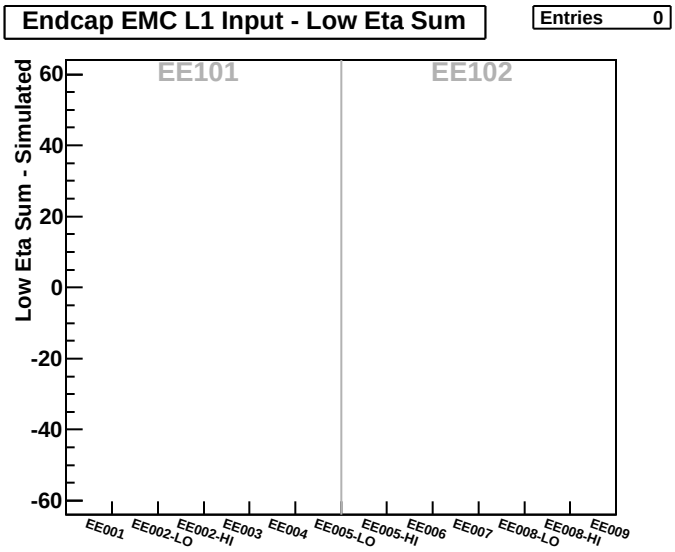

Barrel EMC L1 Input - High Eta Sum
Entries 2.244308e+07
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

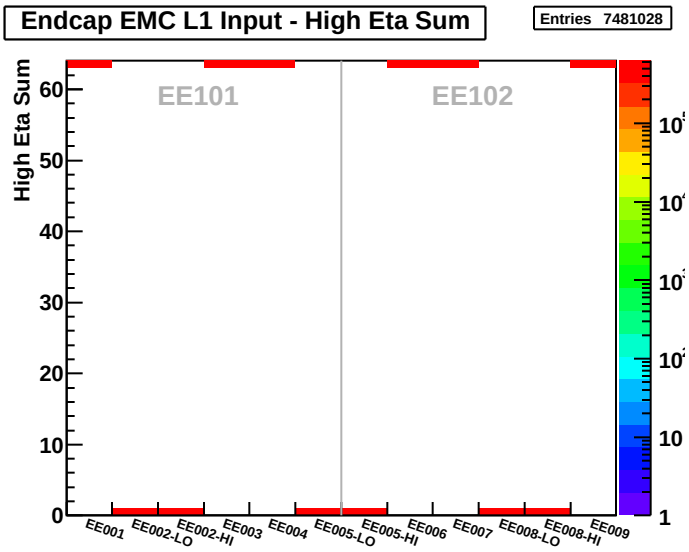

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

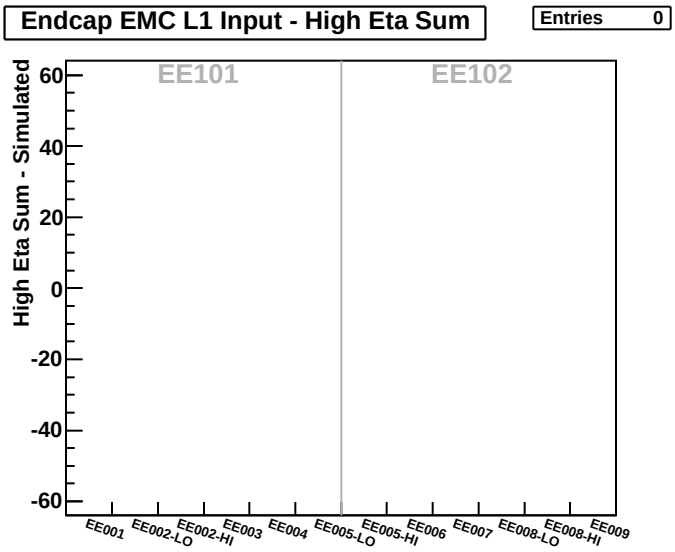

Barrel EMC L1 Input - High Tower Bits
Entries 2.244308e+07
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

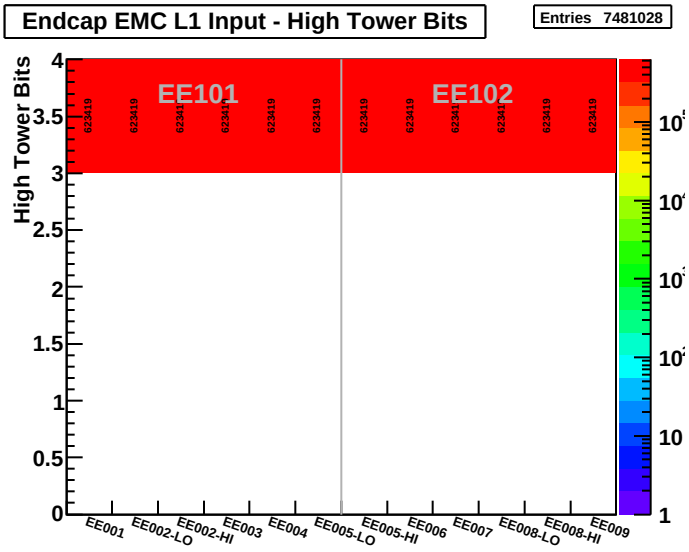

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

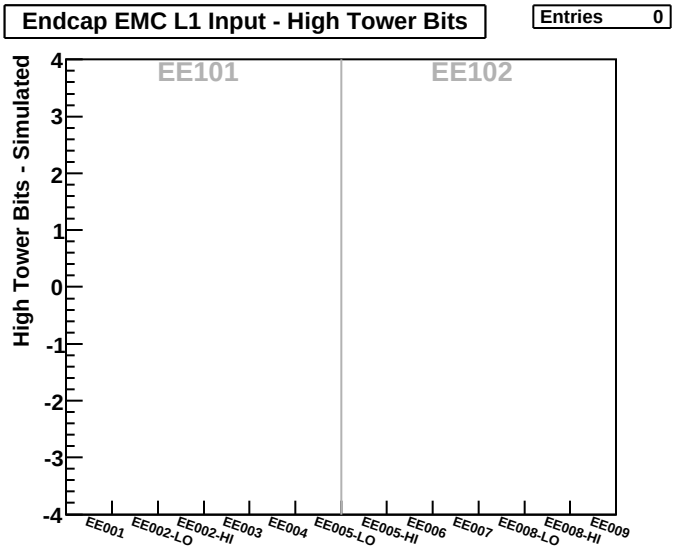

Endcap EMC L1 Input - Low Eta Sum
Entries 7481028
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

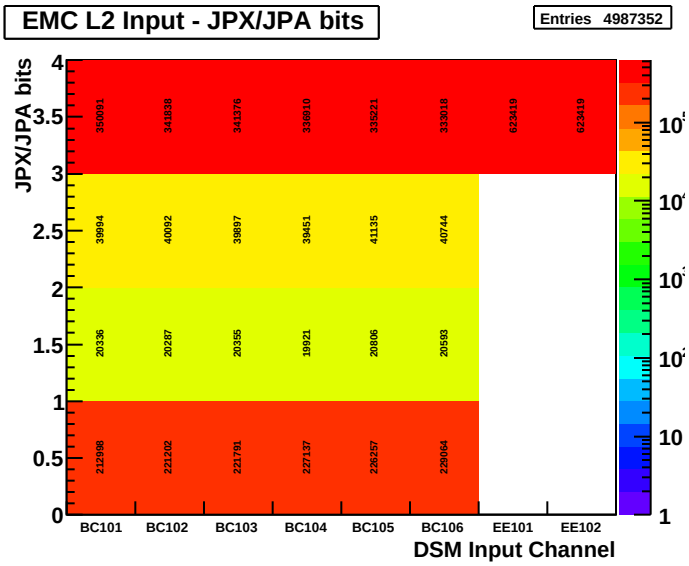

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

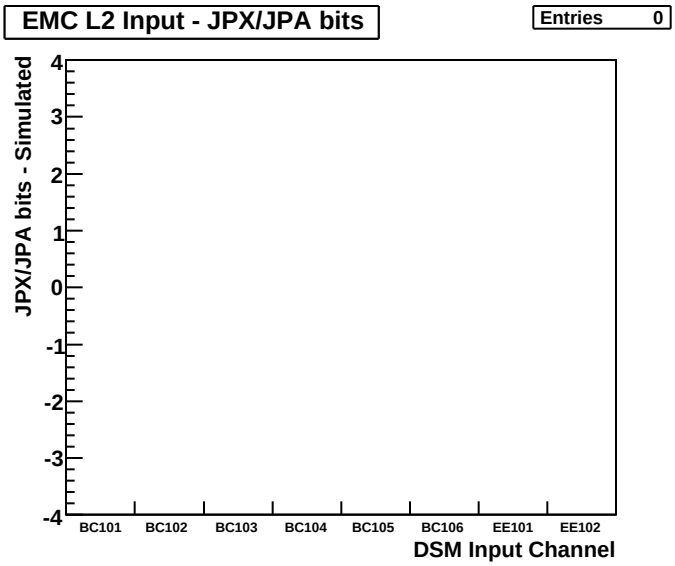

Endcap EMC L1 Input - High Eta Sum
Entries 7481028
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

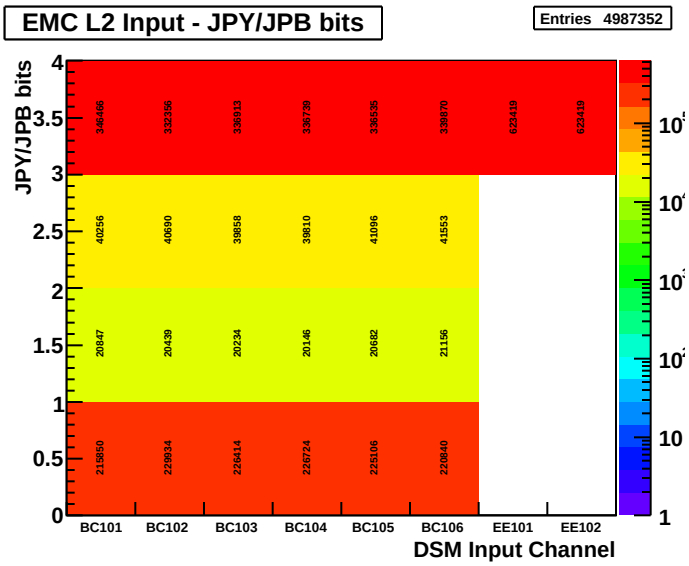

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

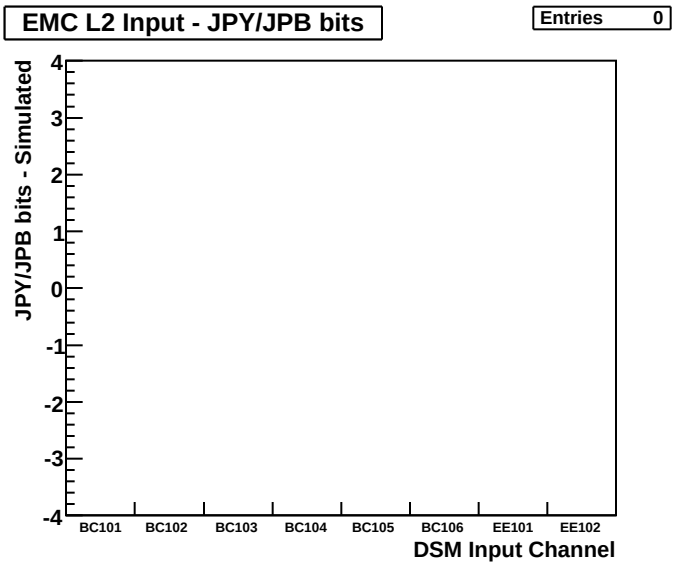

Endcap EMC L1 Input - High Tower Bits
Entries 7481028
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

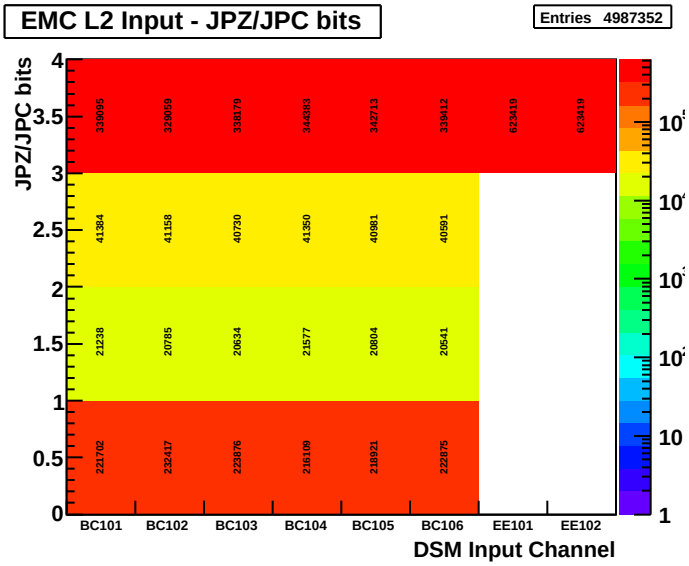

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

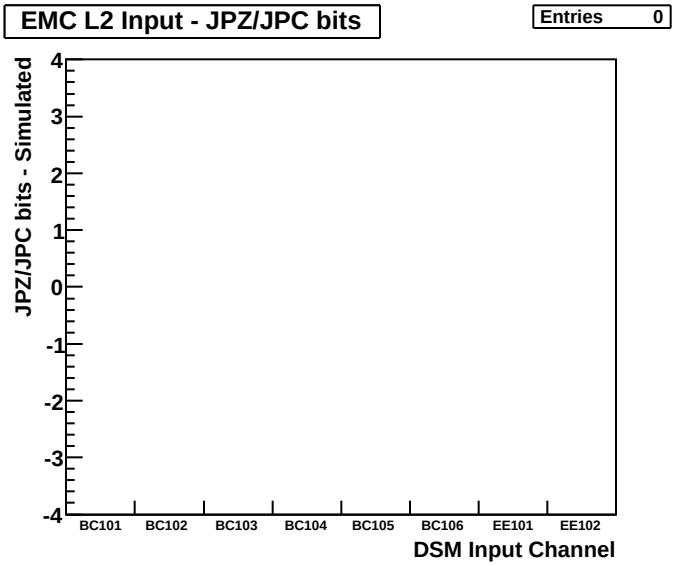

EMC L2 Input - JPX/JPA bits
Entries 4987352
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
350091 341838 341376 336810 335221 333018 623419 623419
39994 40092 39897 39451 41135 40744
20336 20267 20355 19921 20806 20593
212998 221202 221791 227137 226257 229064

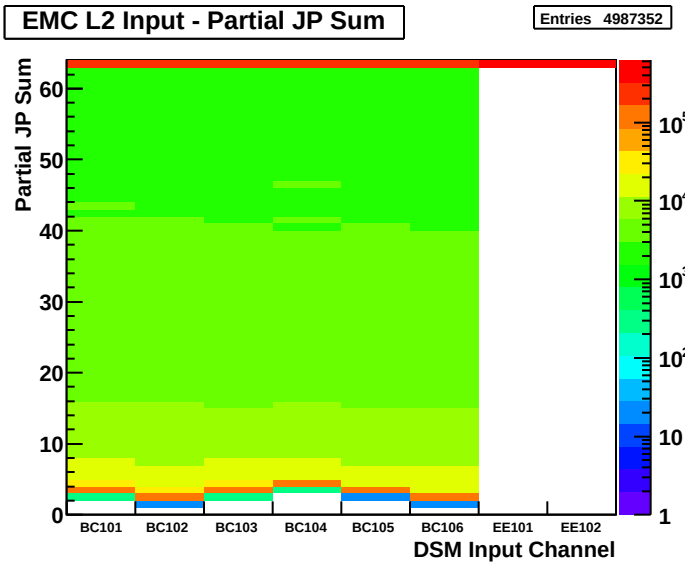

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

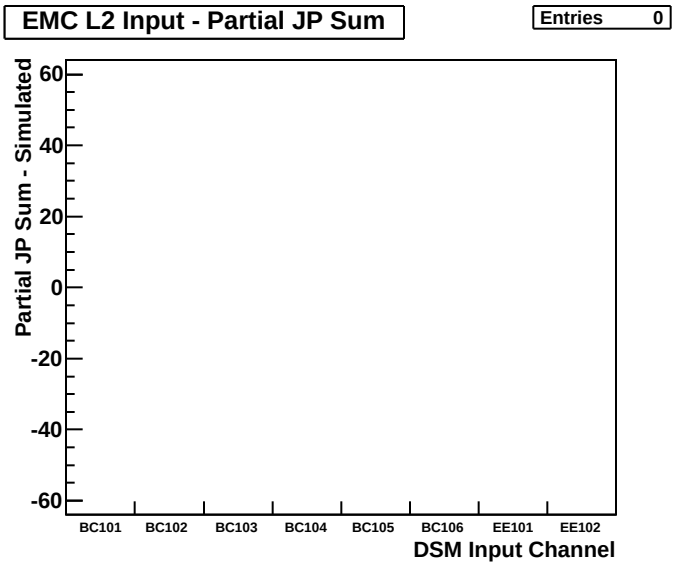

EMC L2 Input - JPY/JPB bits
Entries 4987352
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
346466 332356 336913 336739 336535 339870 623419 623419
40256 40690 39858 39810 41096 41553
20847 20439 20234 20146 20682 21156
215850 229934 226414 226724 225106 220840

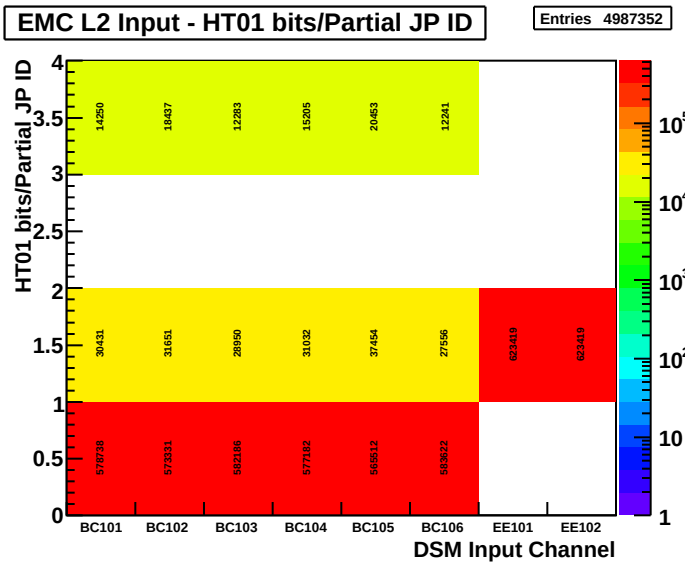

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

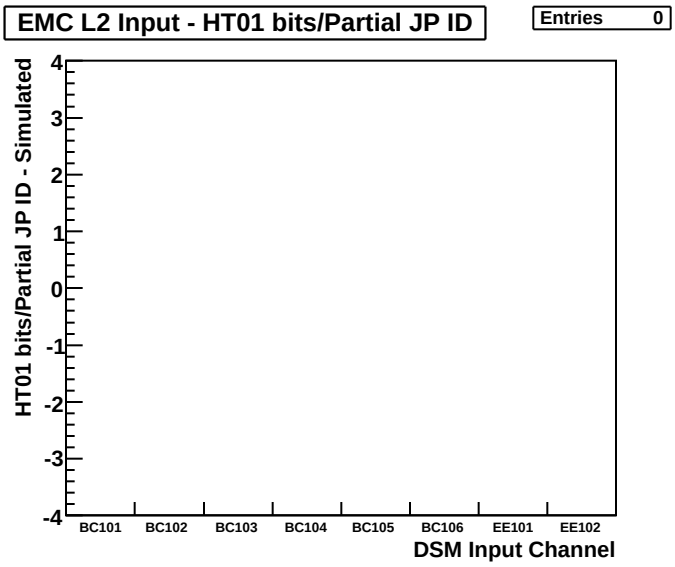

EMC L2 Input - JPZ/JPC bits
Entries 4987352
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
339095 329059 338179 344383 342713 339412 623419 623419
41384 41158 40730 41350 40981 40591
21238 20785 20634 21577 20804 20541
221702 232417 223876 216109 218921 222875

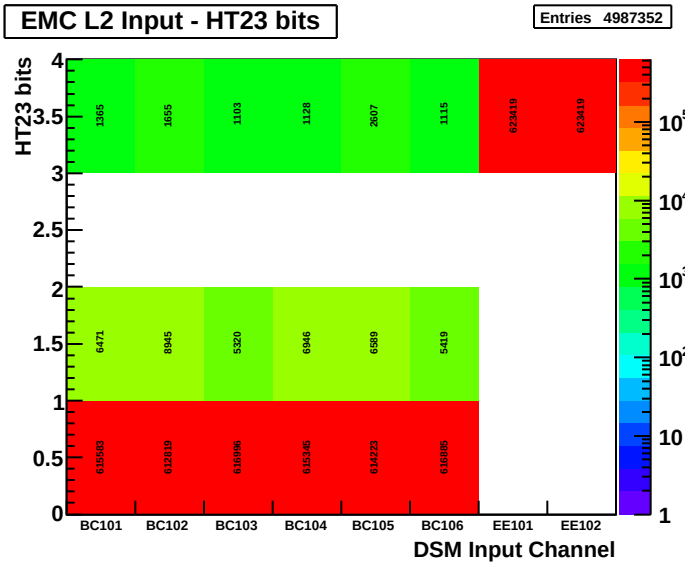

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

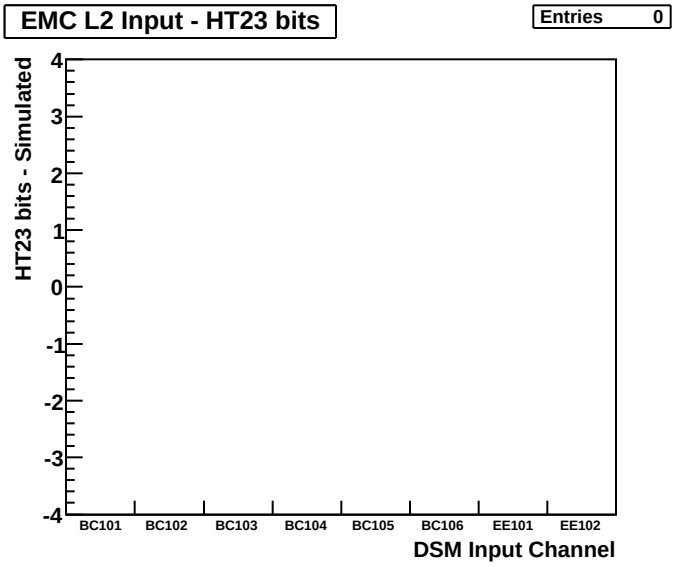

EMC L2 Input - Partial JP Sum
Entries 4987352
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

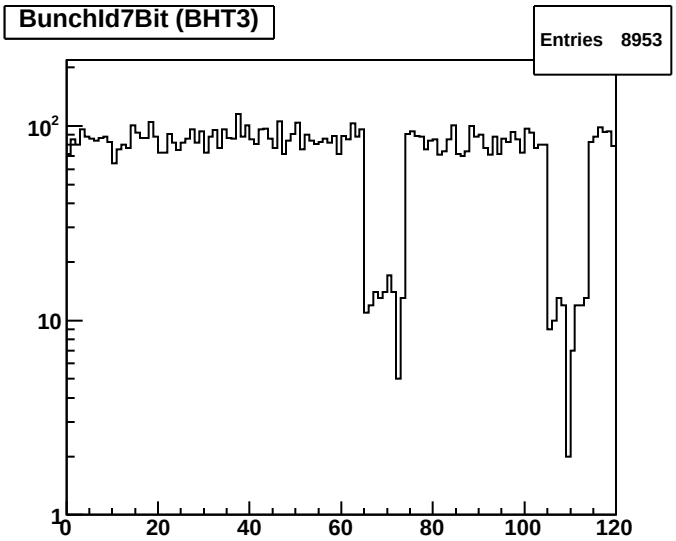

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

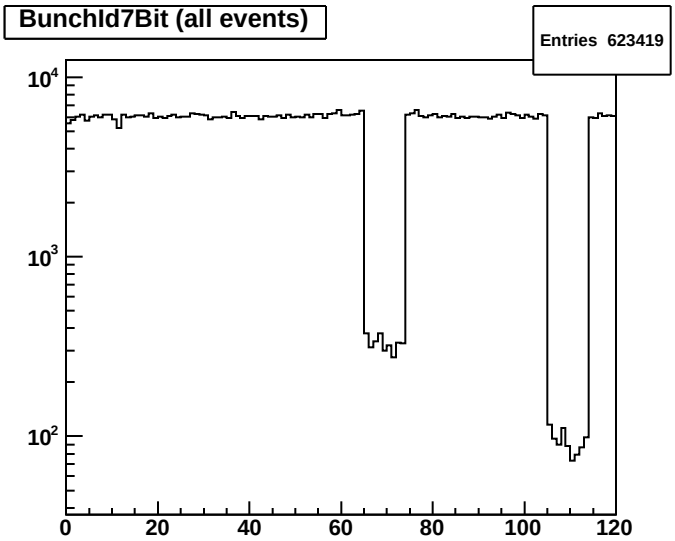

EMC L2 Input - HT01 bits/Partial JP ID
Entries 4987352
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

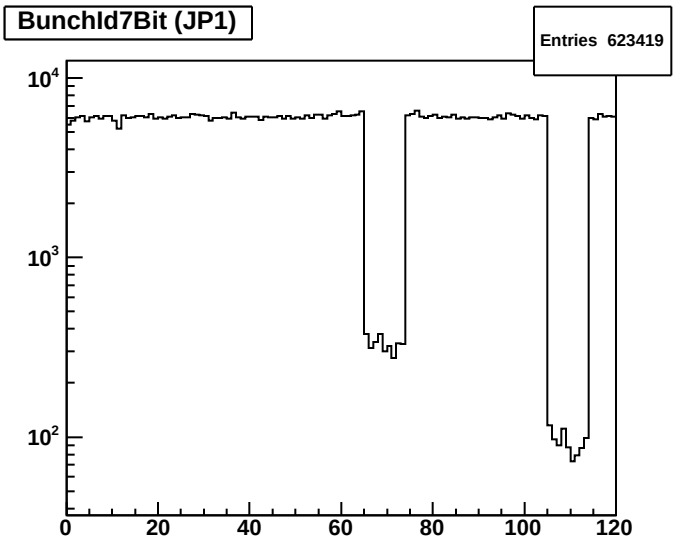

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

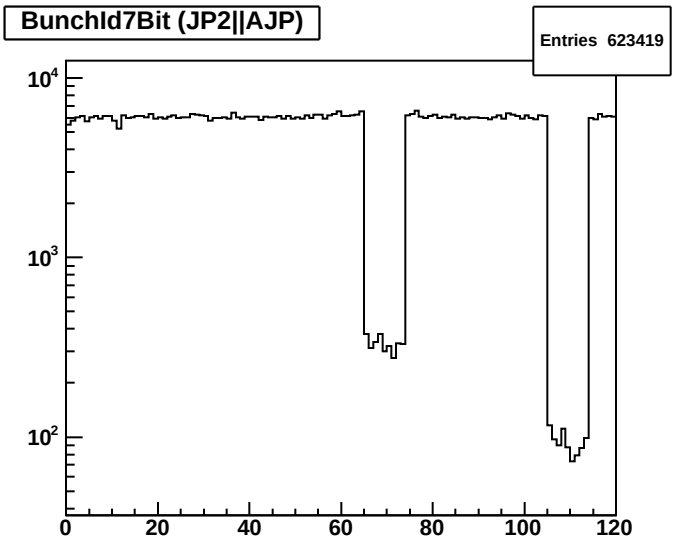

EMC L2 Input - HT23 bits
Entries 4987352
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

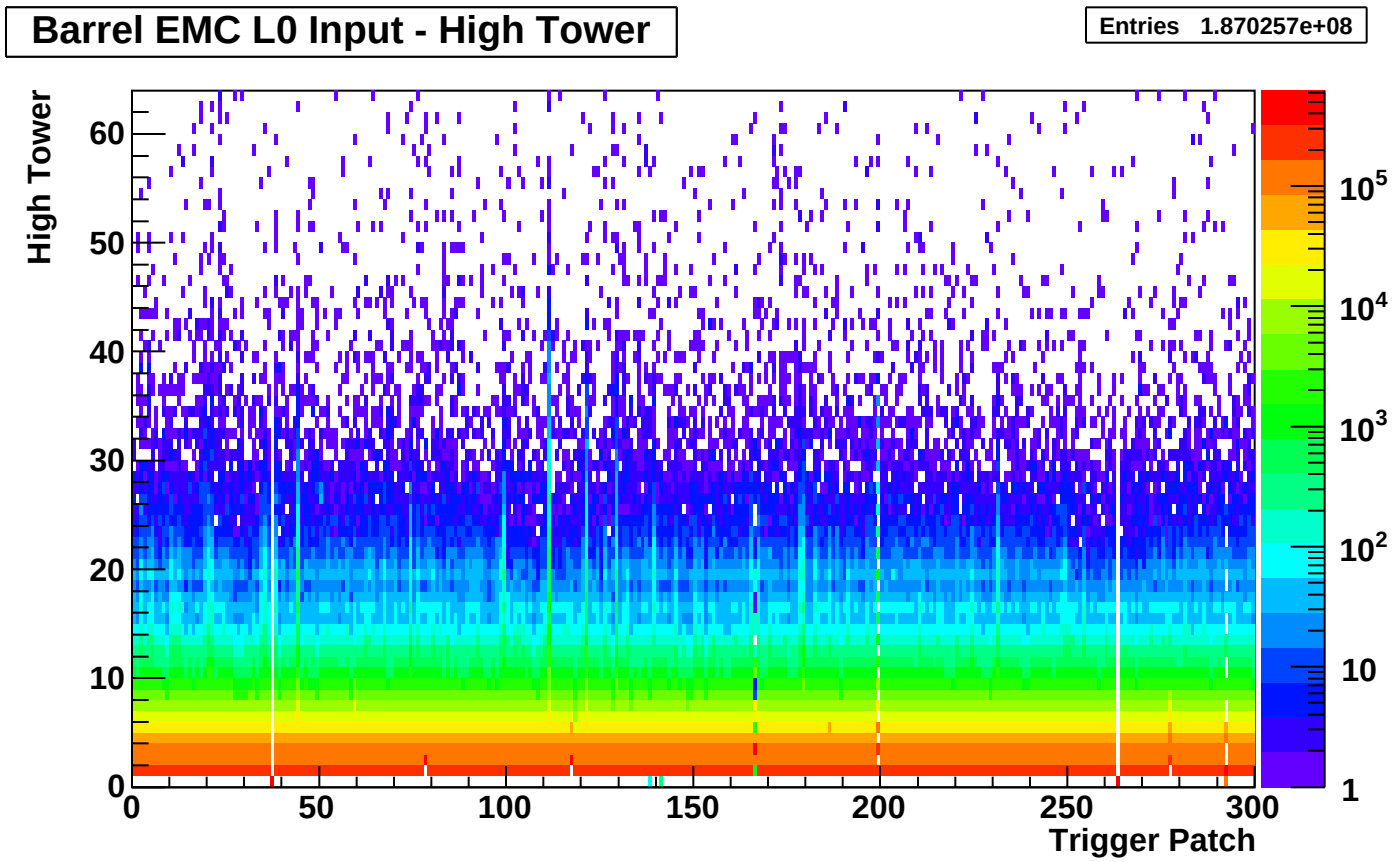

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

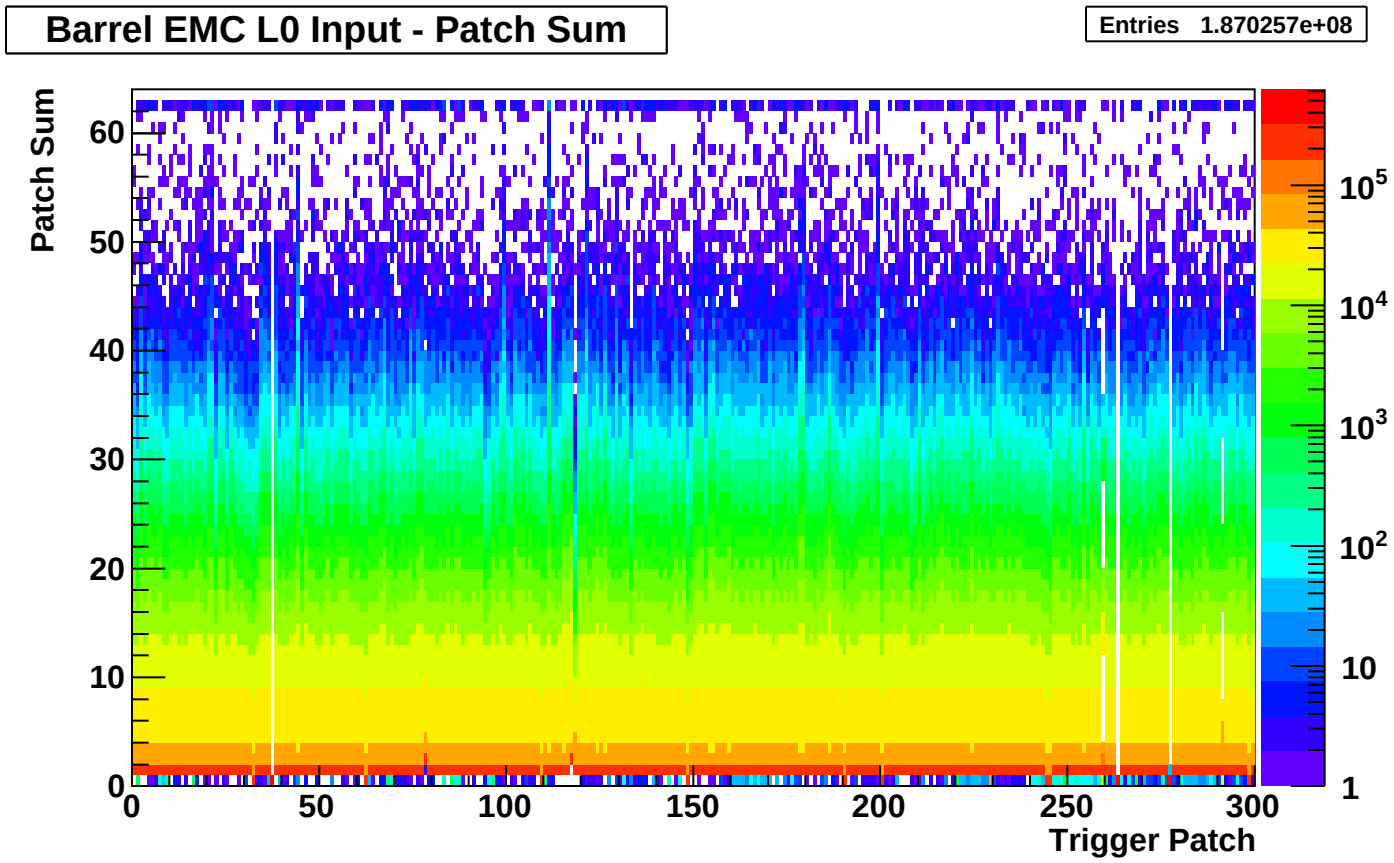

BunchId7Bit (BHT3)
Entries 8953
10^2
10
1
0
20
40
60
80
100
120

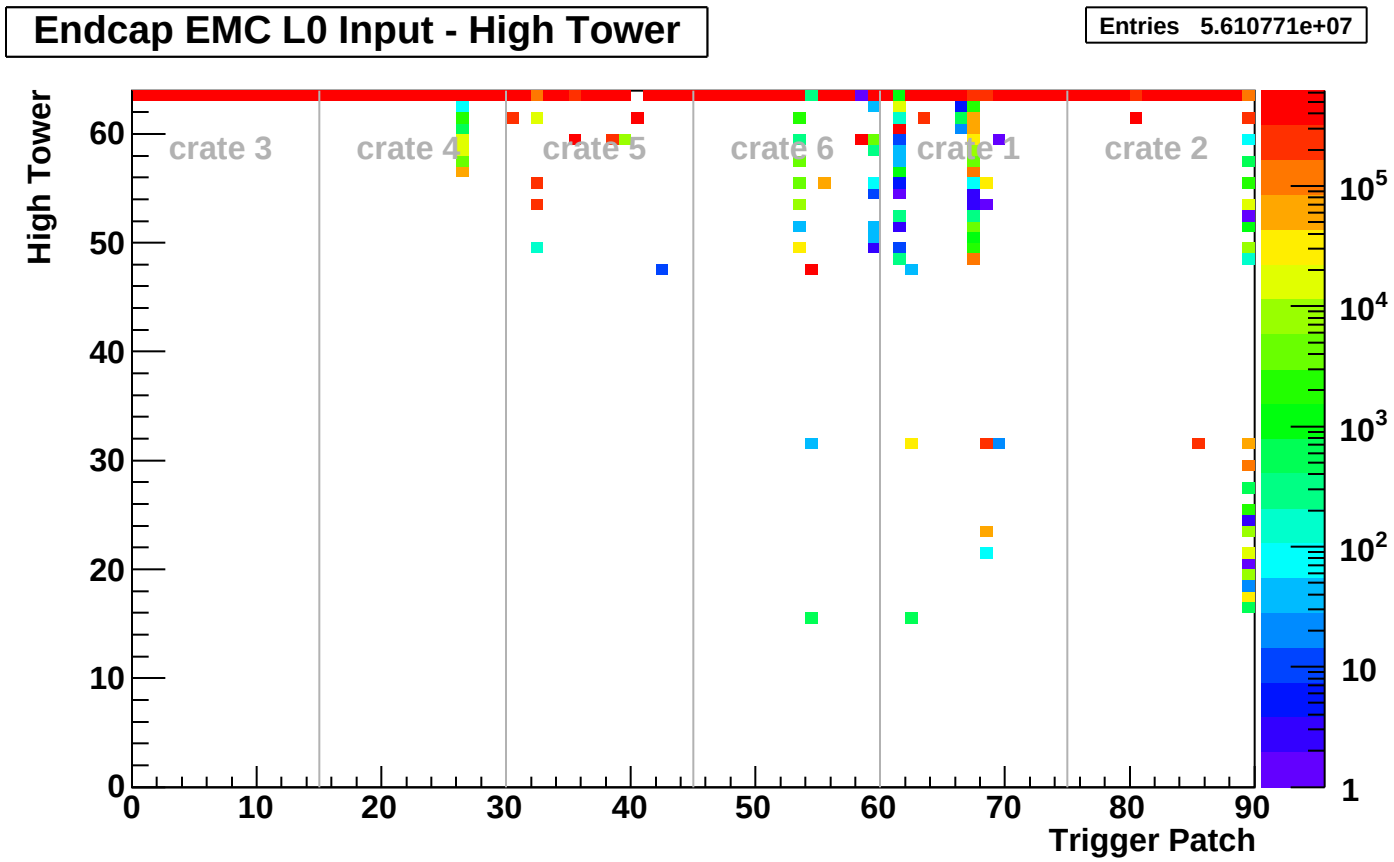

BunchId7Bit (all events)
Entries 623419
10^4
10^3
10^2
0
20
40
60
80
100
120

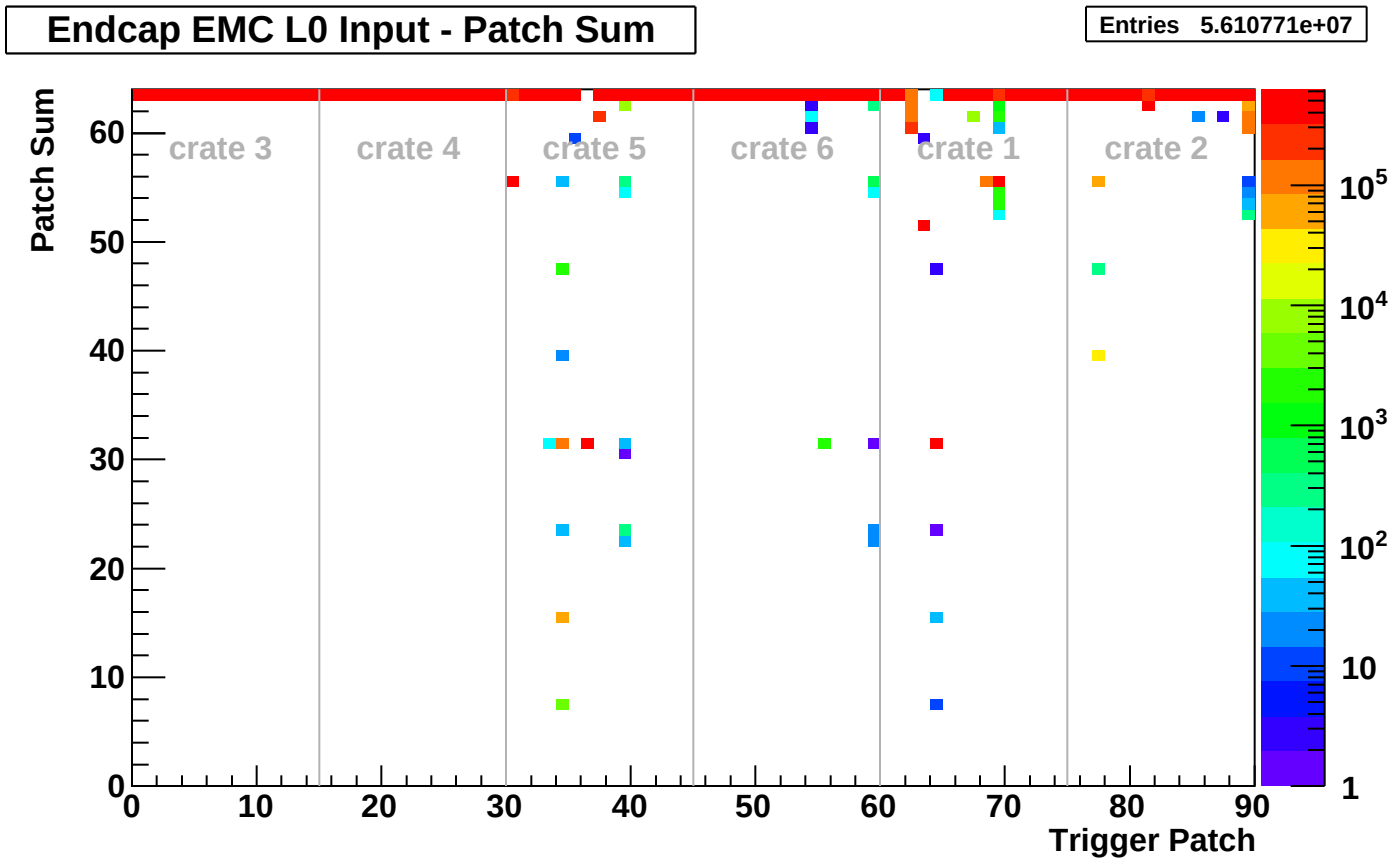

BunchId7Bit (JP1)
Entries 623419
10^4
10^3
10^2
0
20
40
60
80
100
120

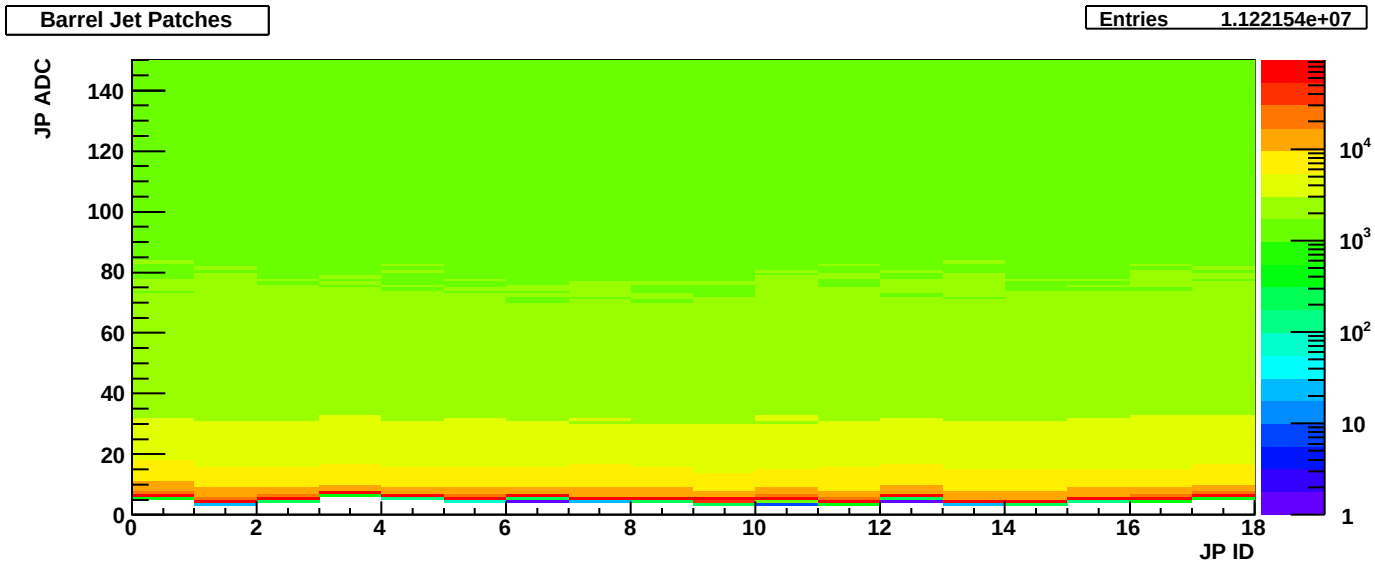

BunchId7Bit (JP2||AJP)
Entries 623419
10^4
10^3
10^2
0
20
40
60
80
100
120

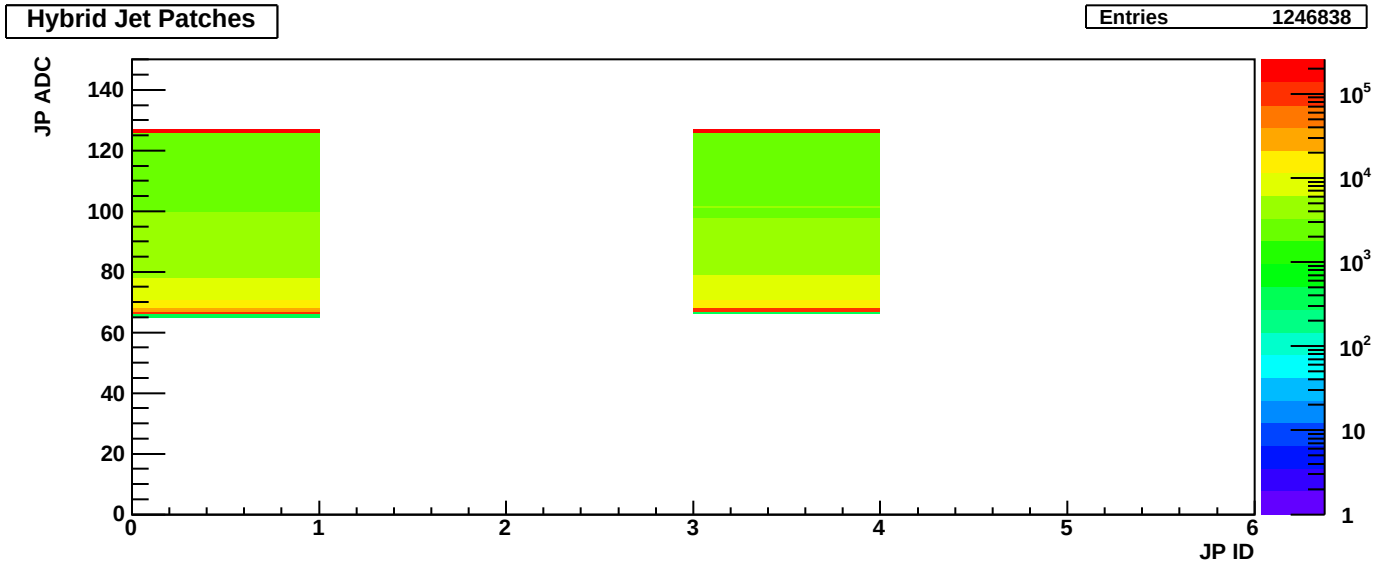

Barrel EMC L0 Input - High Tower
Entries 1.870257e+08
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

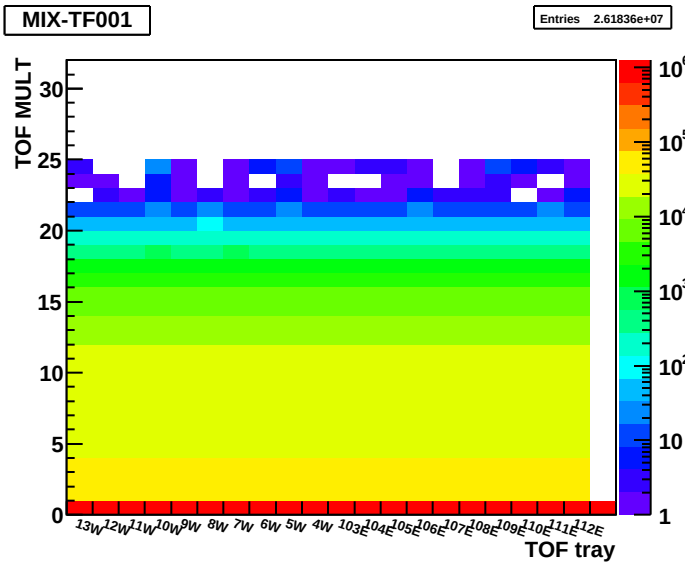

Barrel EMC L0 Input - Patch Sum
Entries 1.870257e+08
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

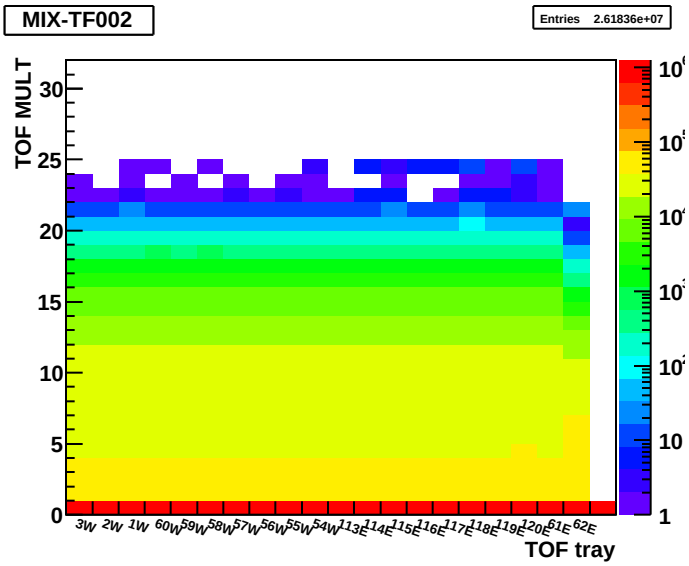

Endcap EMC L0 Input - High Tower
Entries 5.610771e+07
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

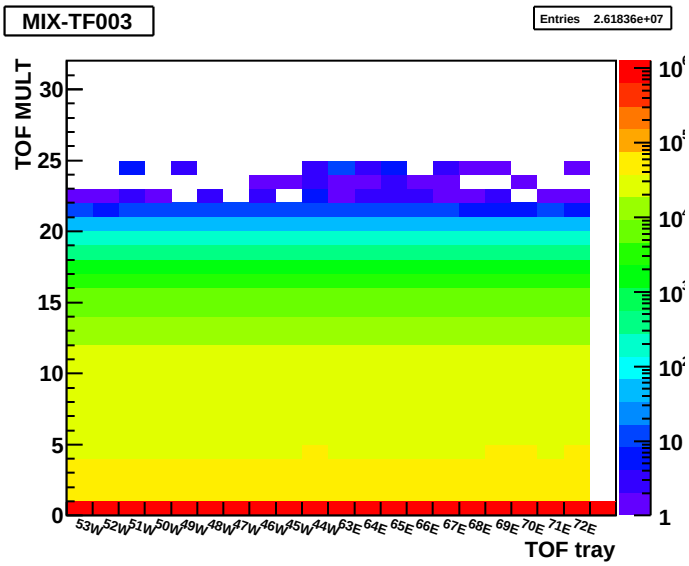

Endcap EMC L0 Input - Patch Sum
Entries 5.610771e+07
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

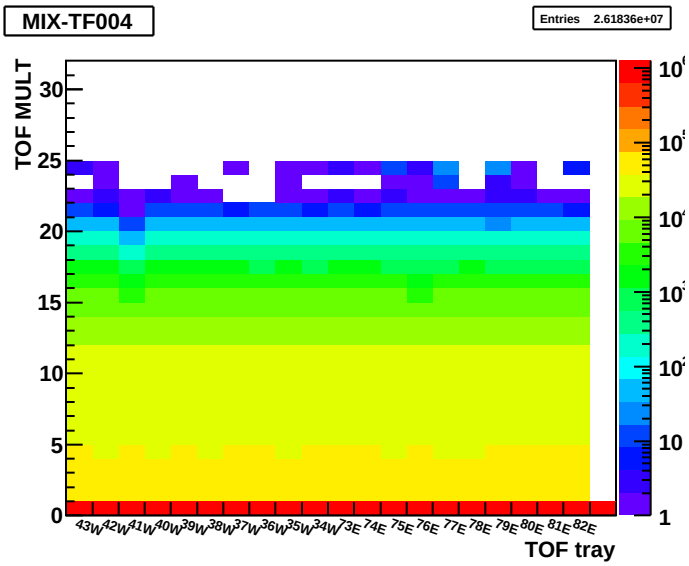

Barrel Jet Patches
Entries 1.122154e+07
JP ADC
JP ID

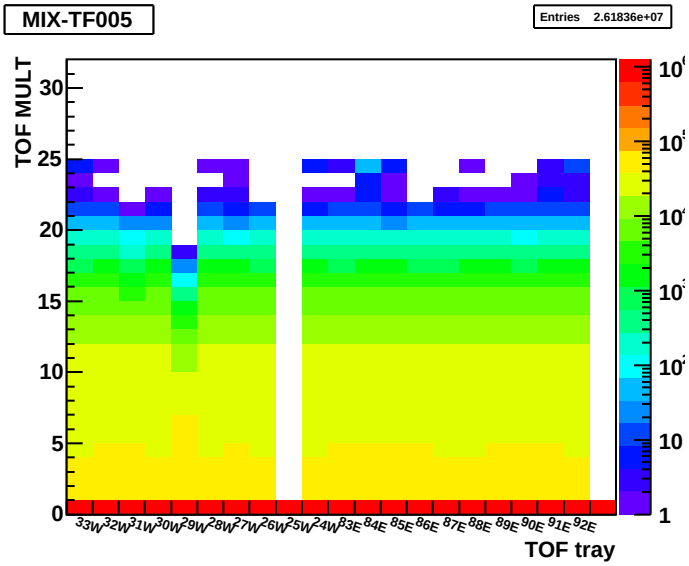

Hybrid Jet Patches
Entries 1246838
JP ADC
JP ID

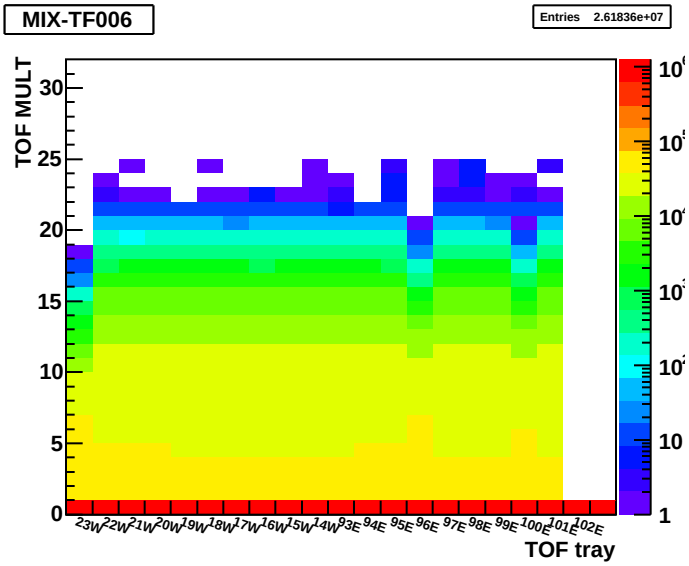

MIX-TF001
Entries 2.61836e+07
TOF MULT
TOF tray

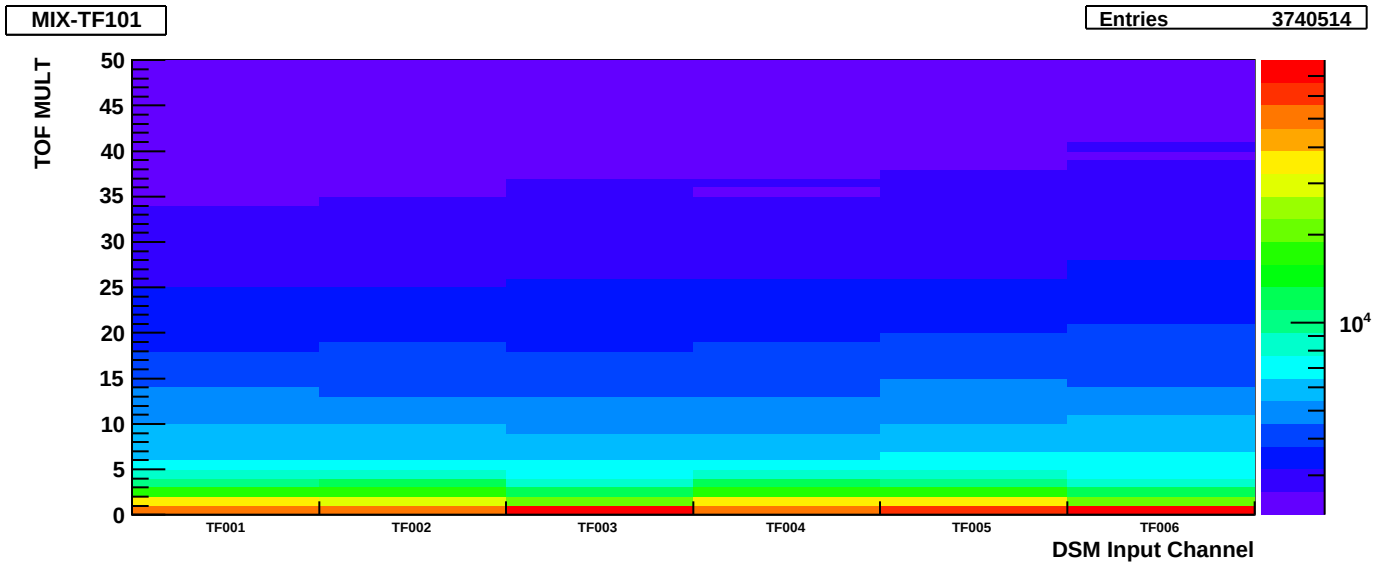

MIX-TF002
Entries 2.61836e+07
TOF MULT
TOF tray

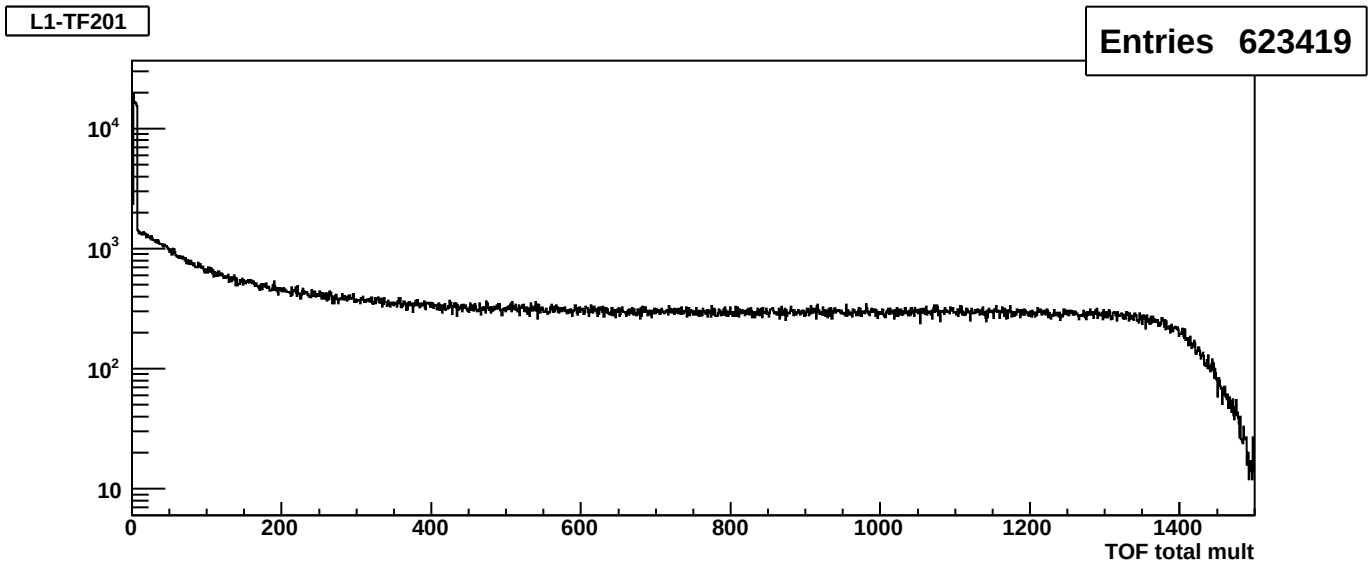

MIX-TF003
Entries 2.61836e+07
TOF MULT
TOF tray

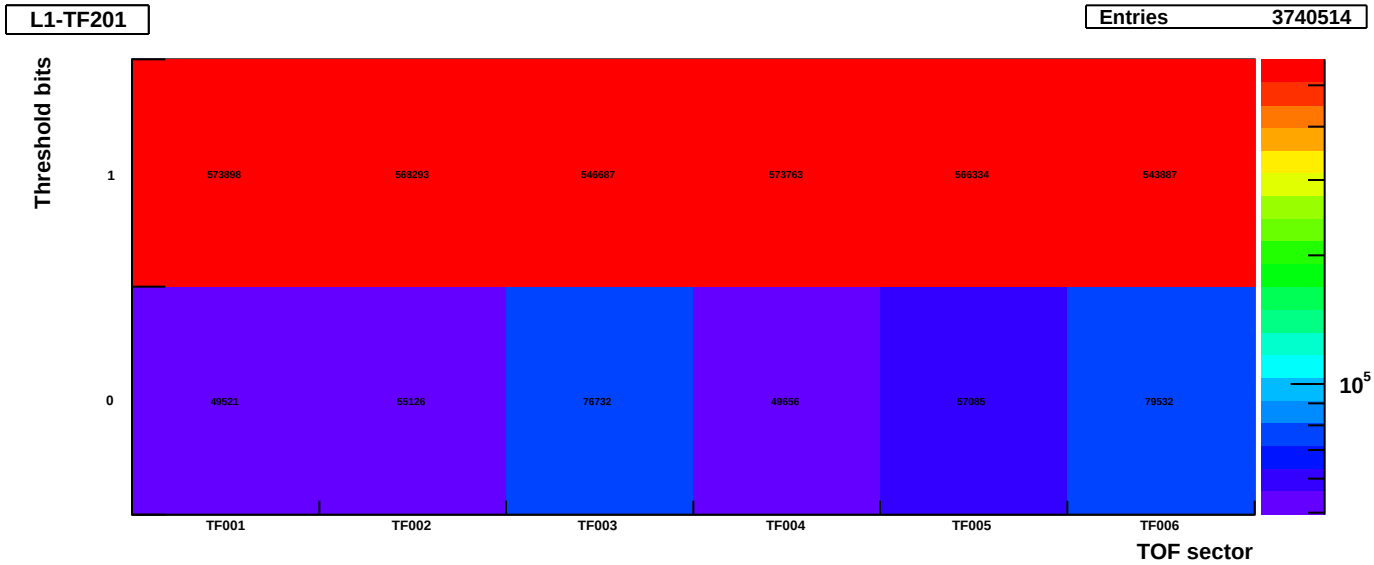

MIX-TF004
Entries 2.61836e+07
TOF MULT
TOF tray

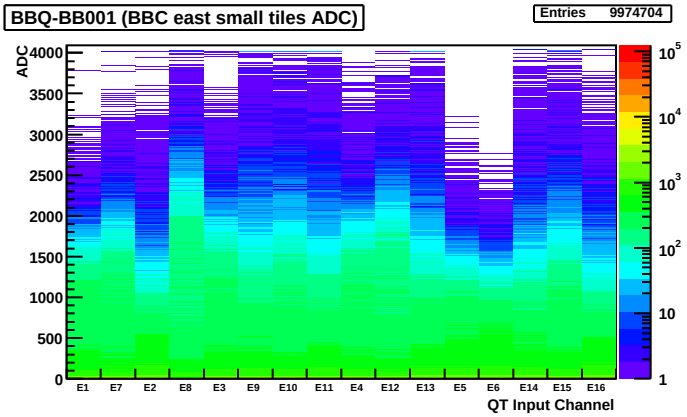

MIX-TF005
Entries 2.61836e+07
TOF MULT
TOF tray

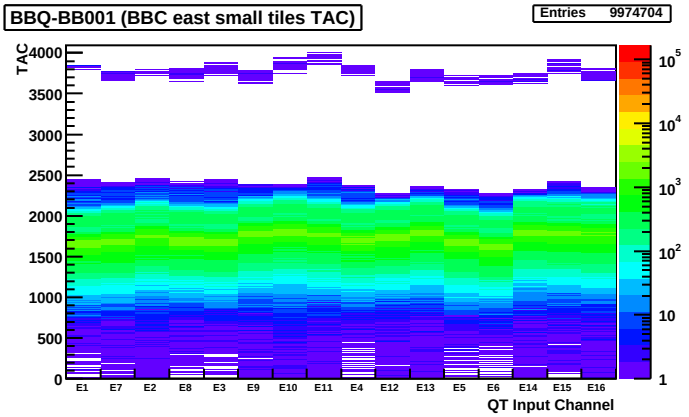

MIX-TF006
Entries 2.61836e+07
TOF MULT
TOF tray

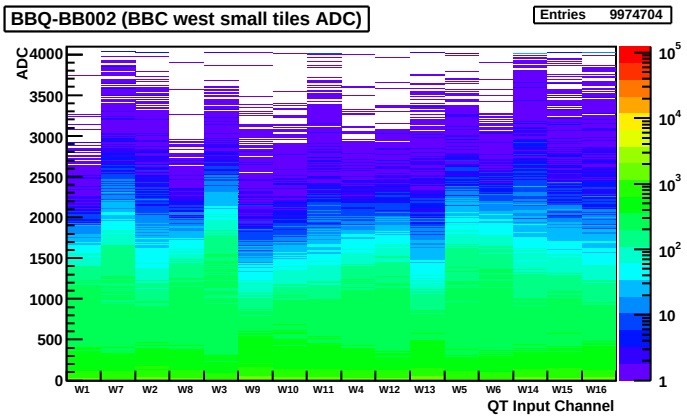

MIX-TF101
Entries 3740514
TOF MULT
50
45
40
35
30
25
20
15
10
5
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^4

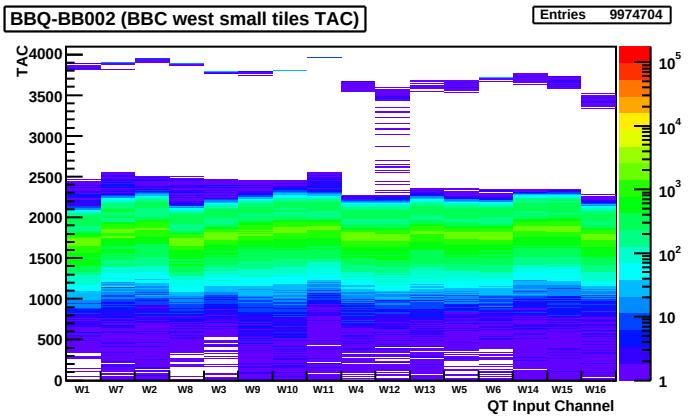

L1-TF201
Entries 623419
10^4
10^3
10^2
10
0
200
400
600
800
1000
1200
1400
TOF total mult

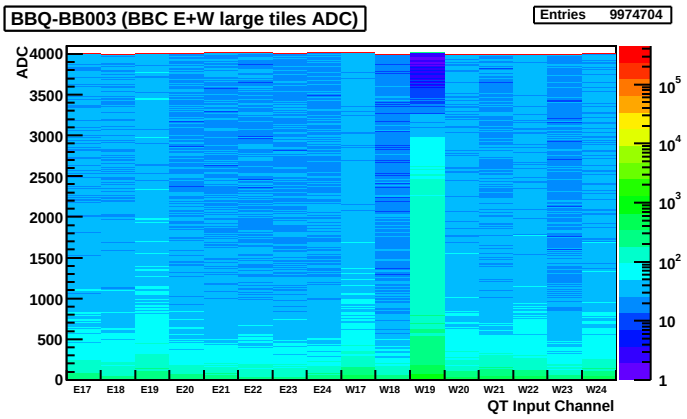

L1-TF201
Entries 3740514
Threshold bits
1
0
573898
568293
546687
573763
566334
543887
49521
55126
76732
49656
57085
79532
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector
10^5

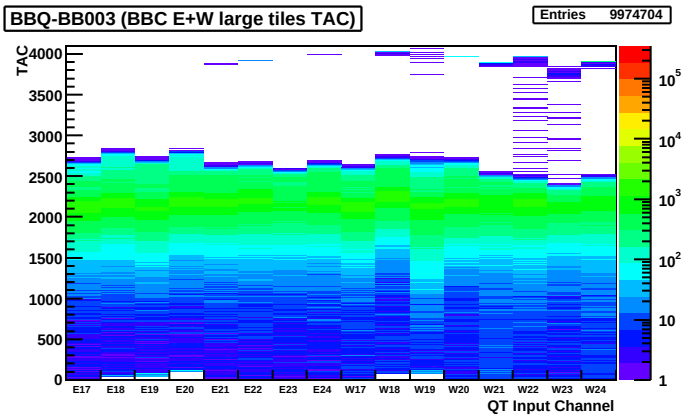

BBQ-BB001 (BBC east small tiles ADC)
Entries 9974704
ADC
QT Input Channel

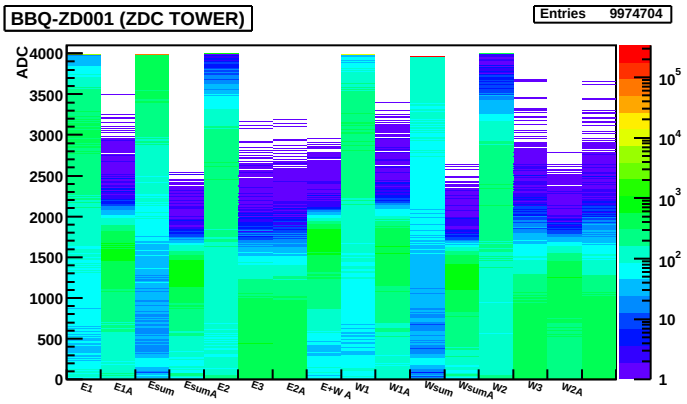

BBQ-BB001 (BBC east small tiles TAC)
Entries 9974704
TAC
QT Input Channel

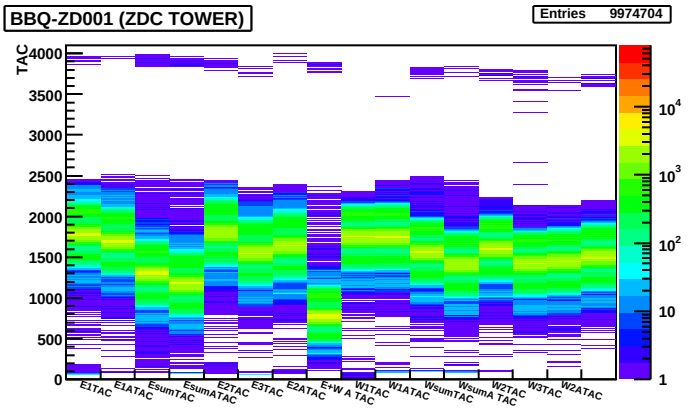

BBQ-BB002 (BBC west small tiles ADC)
Entries 9974704
ADC
QT Input Channel

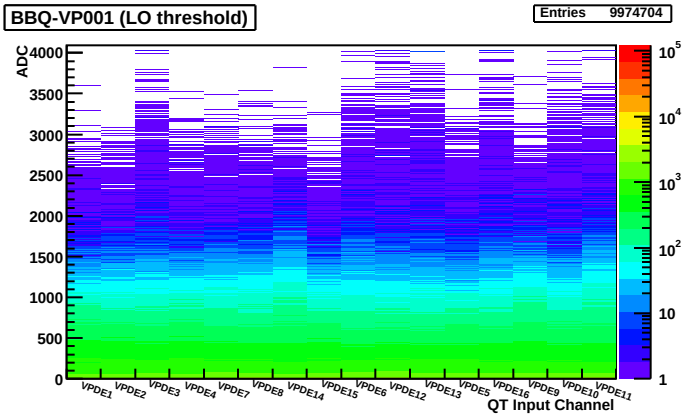

BBQ-BB002 (BBC west small tiles TAC)
Entries 9974704
TAC
QT Input Channel

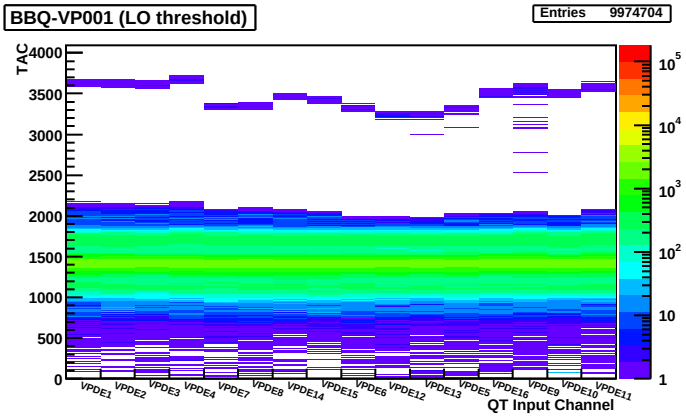

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 9974704
ADC
QT Input Channel

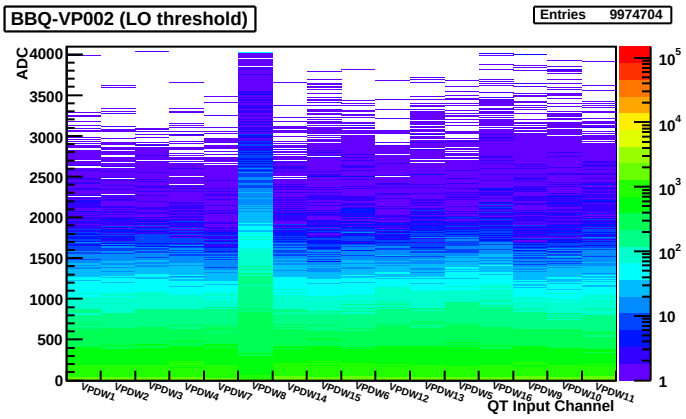

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 9974704
TAC
QT Input Channel

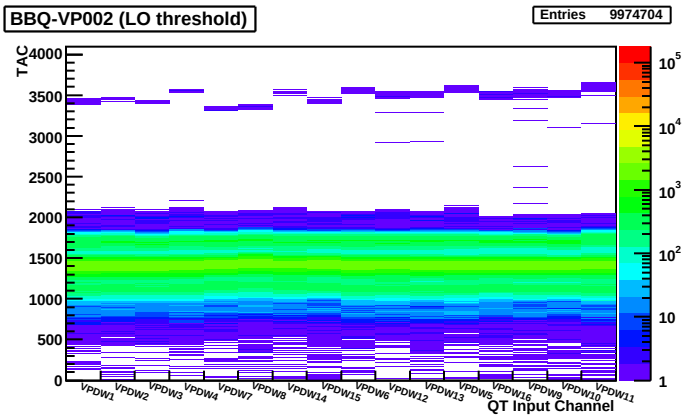

BBQ-ZD001 (ZDC TOWER)
Entries 9974704
ADC

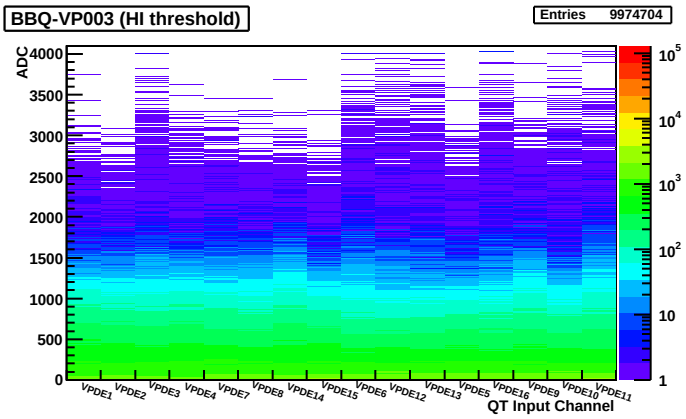

BBQ-ZD001 (ZDC TOWER)
Entries 9974704
TAC

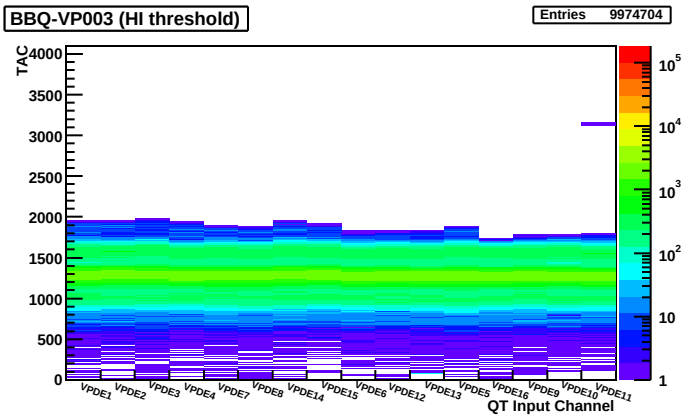

BBQ-VP001 (LO threshold)
Entries 9974704
ADC
QT Input Channel

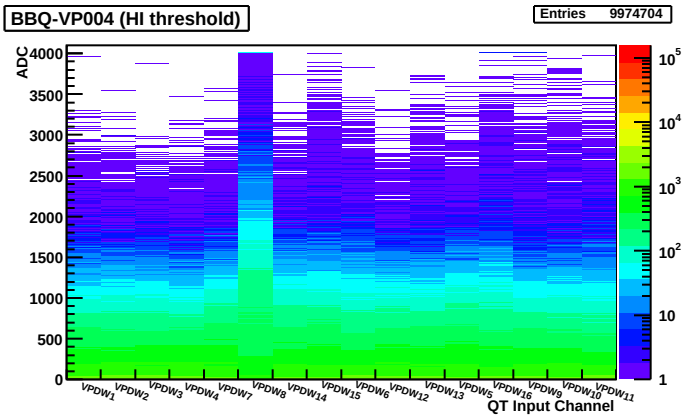

BBQ-VP001 (LO threshold)
Entries 9974704
TAC
QT Input Channel

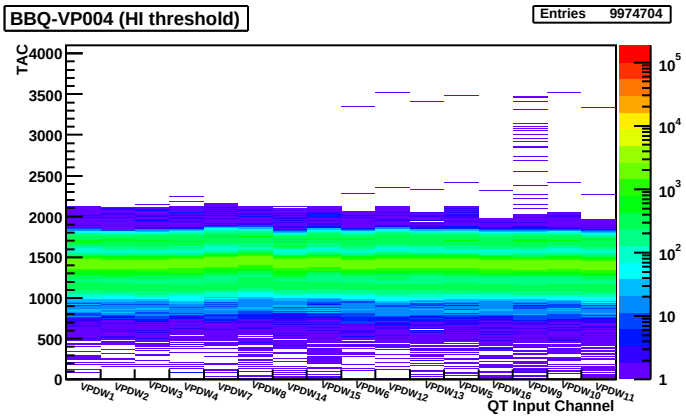

BBQ-VP002 (LO threshold)
Entries 9974704
ADC
QT Input Channel

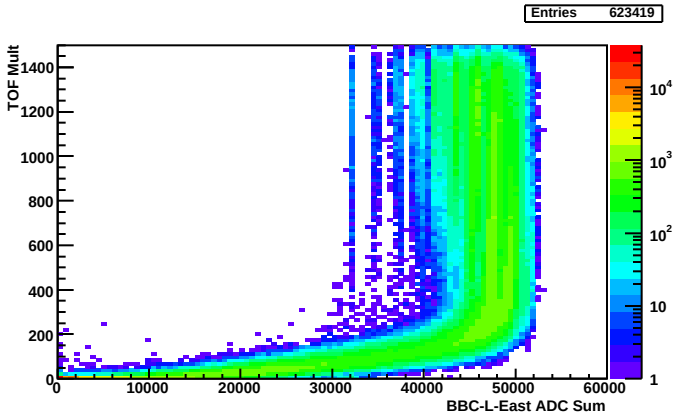

BBQ-VP002 (LO threshold)
Entries 9974704
TAC
QT Input Channel

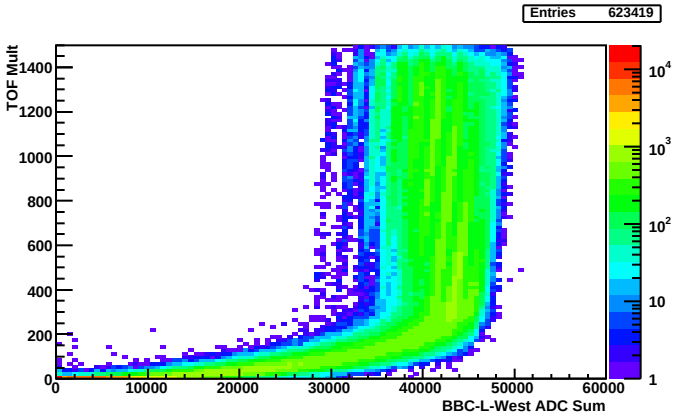

BBQ-VP003 (HI threshold)
Entries 9974704
ADC
QT Input Channel

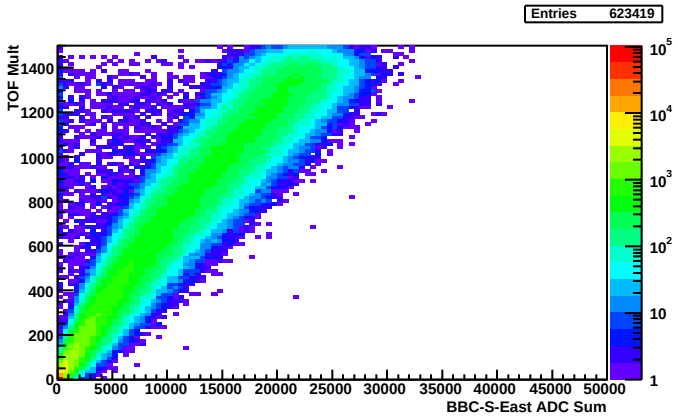

BBQ-VP003 (HI threshold)
Entries 9974704
TAC
QT Input Channel

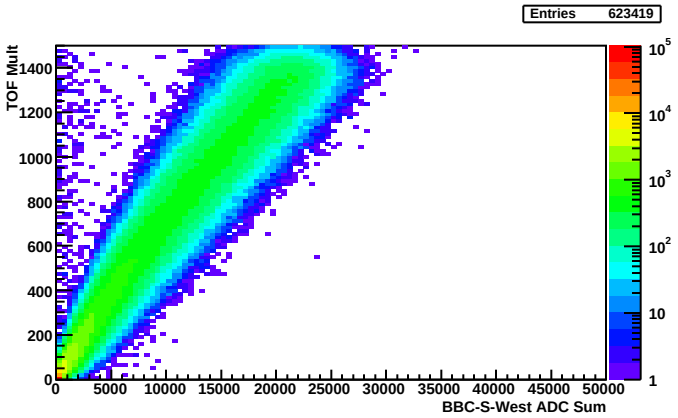

BBQ-VP004 (HI threshold)
Entries 9974704
ADC
QT Input Channel

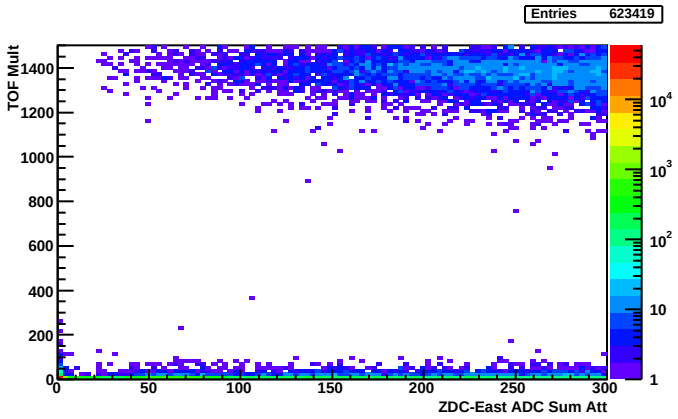

BBQ-VP004 (HI threshold)
Entries 9974704
TAC
QT Input Channel


Entries 623419
TOF Mult
BBC-L-East ADC Sum


Entries 623419
TOF Mult
BBC-L-West ADC Sum


Entries 623419
TOF Mult
BBC-S-East ADC Sum


Entries 623419
TOF Mult
BBC-S-West ADC Sum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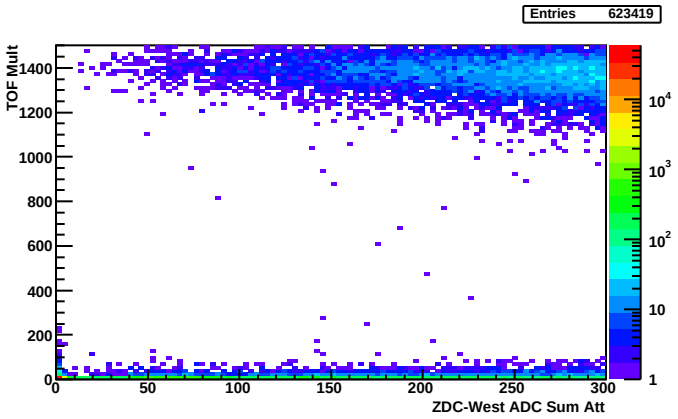
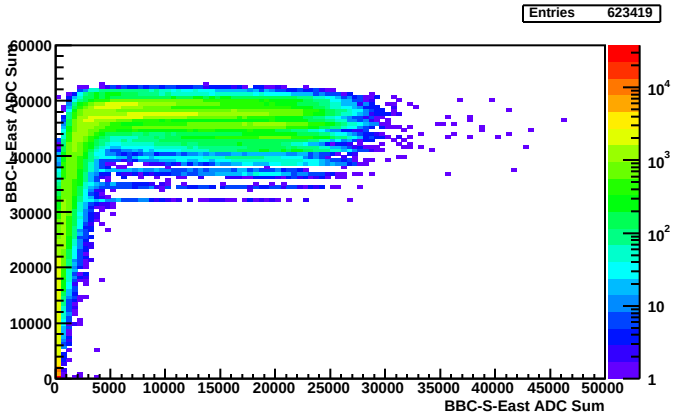
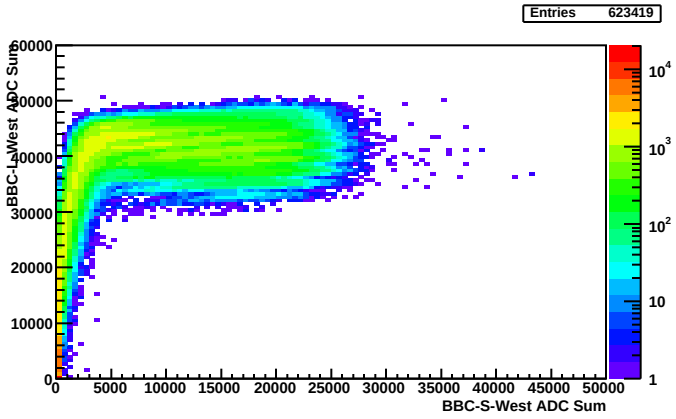
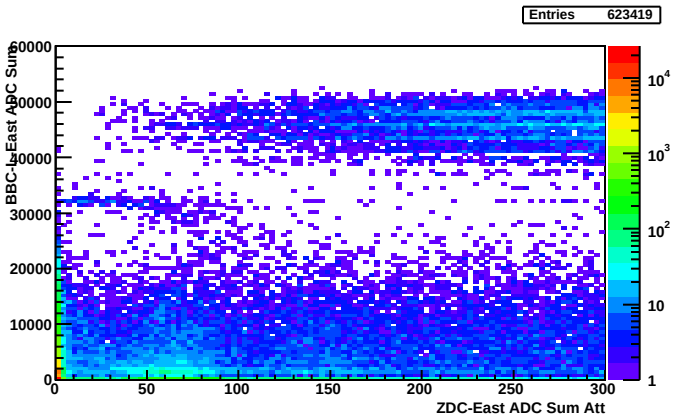
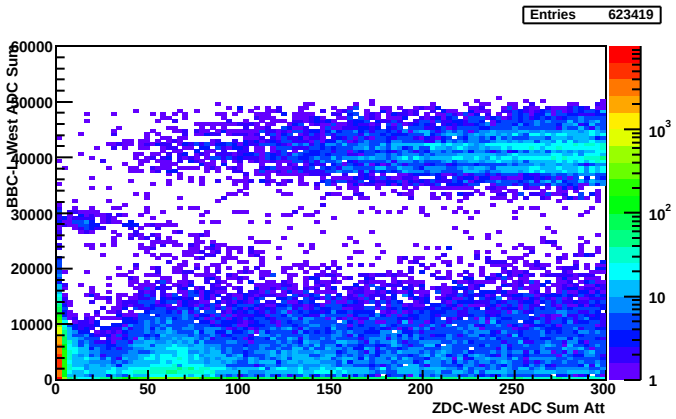
TOF Mult
ZDC-East ADC Sum Att


Entries 623419
TOF Mult
ZDC-West ADC Sum Att


Entries 623419
BBC-L-East ADC Sum
BBC-S-East ADC Sum


Entries 623419
BBC-L-West ADC Sum
BBC-S-West ADC Sum


Entries 623419
BBC-L-East ADC Sum
ZDC-East ADC Sum Att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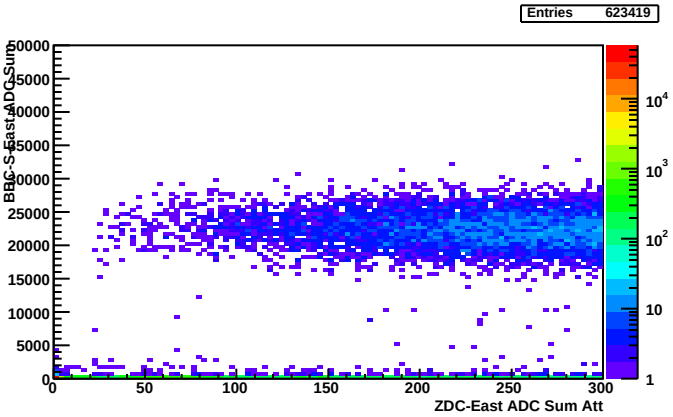
BBC-L-West ADC Sum
ZDC-West ADC Sum Att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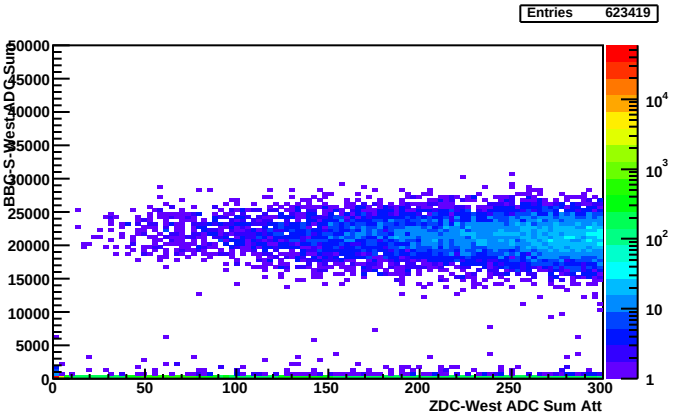
BBC-S-East ADC Sum
ZDC-East ADC Sum Att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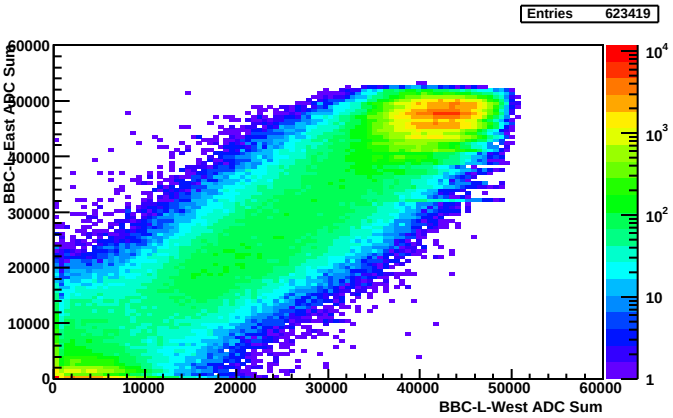
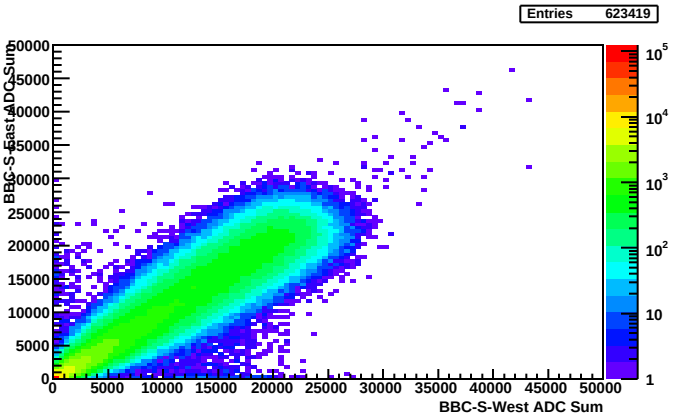
BBC-S-West ADC Sum
ZDC-West ADC Sum Att


Entries 623419
BBC-L-East ADC Sum
BBC-L-West ADC Sum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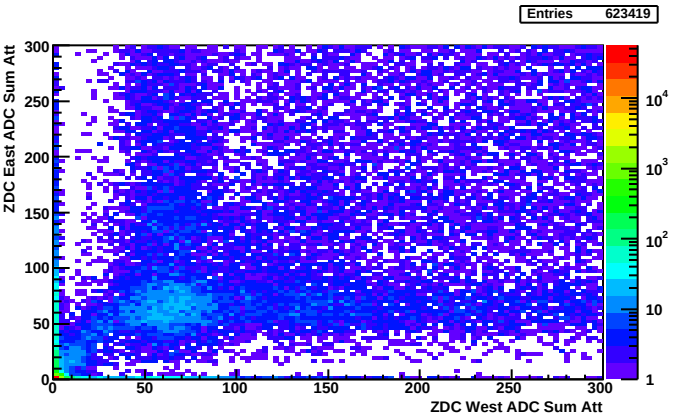
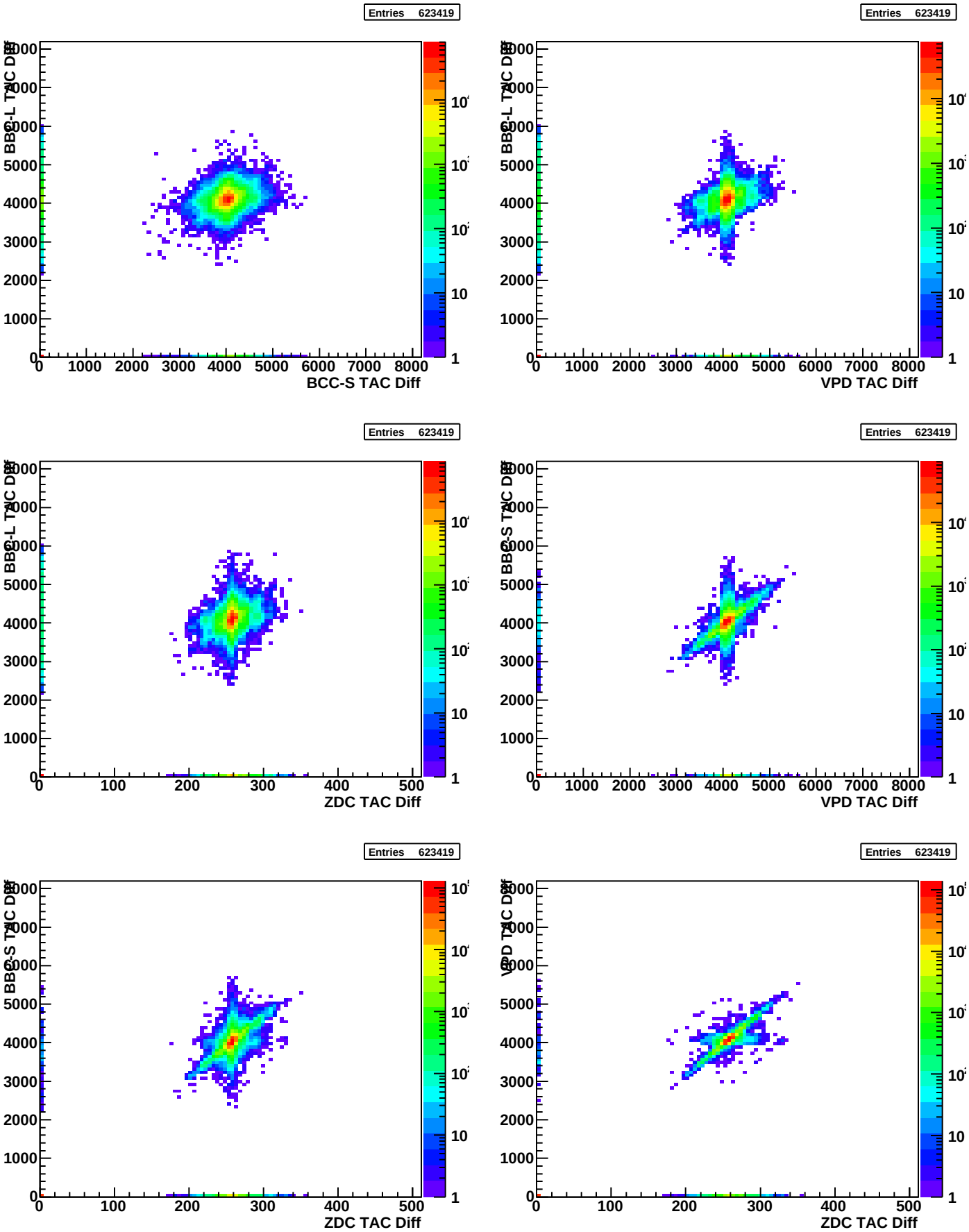
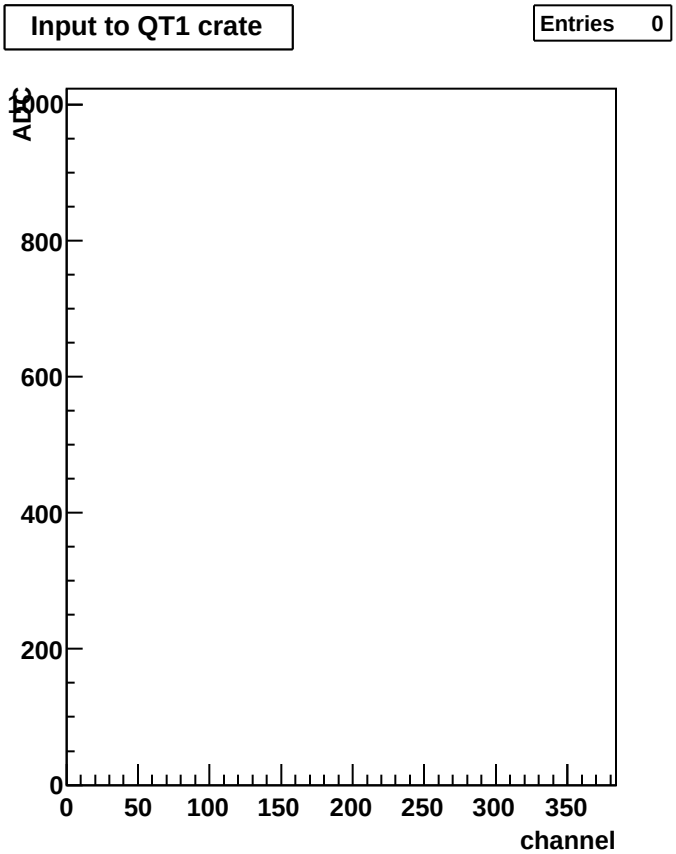
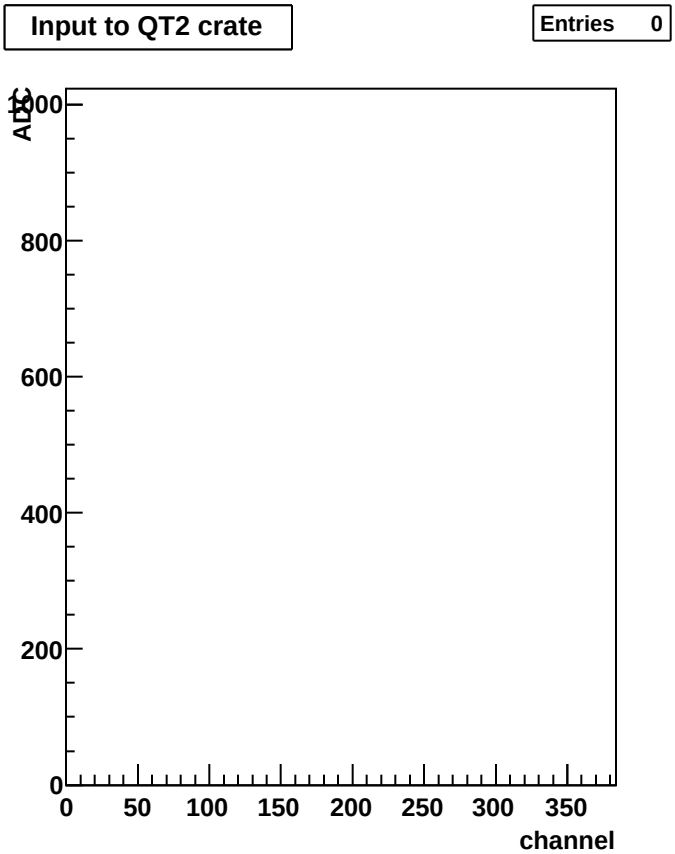
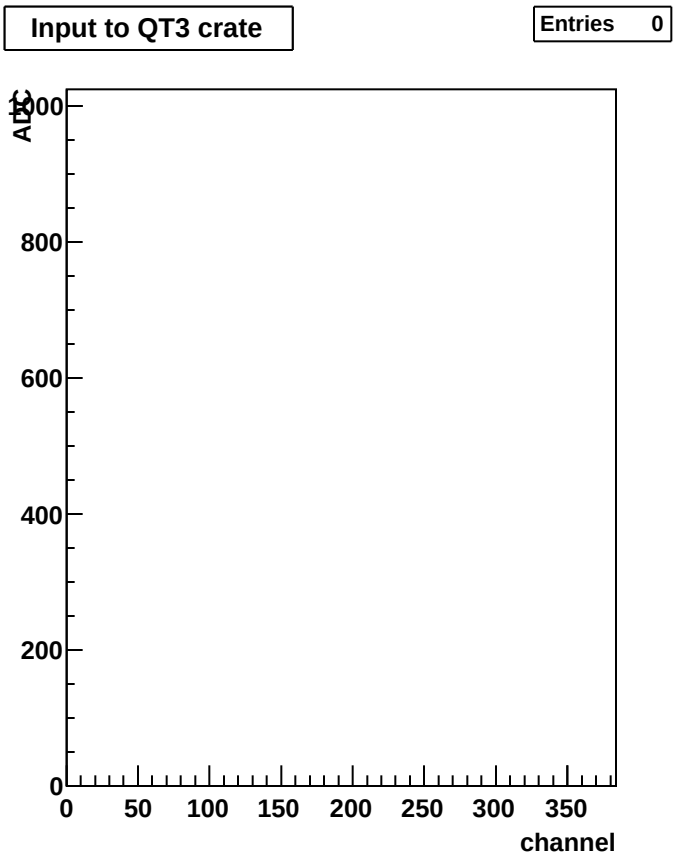
BBC-S-East ADC Sum
BBC-S-West ADC Sum

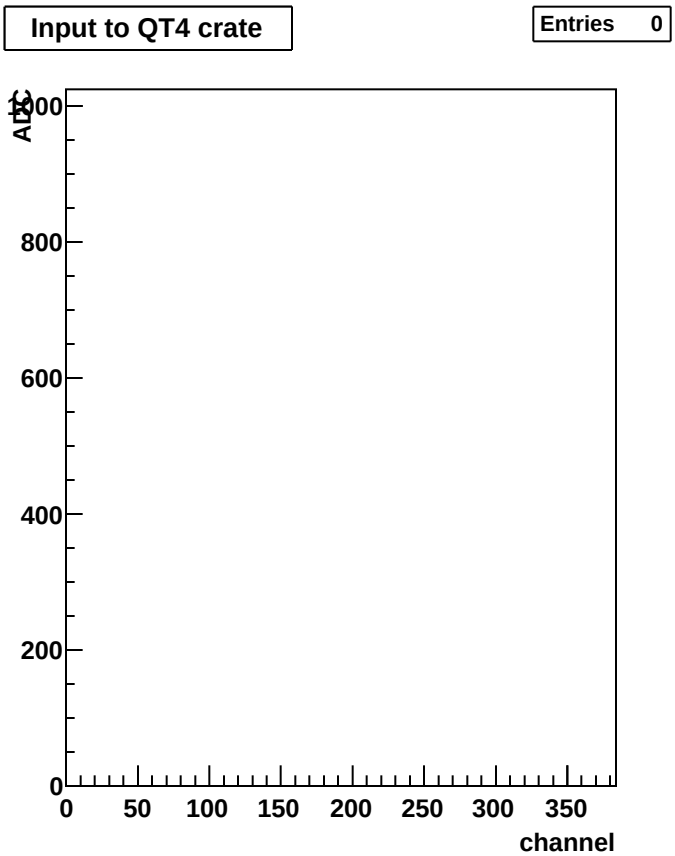

Entries 623419
ZDC East ADC Sum Att
ZDC West ADC Sum Att

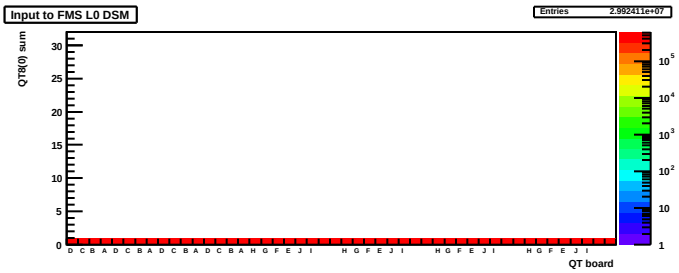

Entries 623419
BBC-L TAC Diff
BCC-S TAC Diff
Entries 623419
BBC-L TAC Diff
VPD TAC Diff
Entries 623419
BBC-L TAC Diff
ZDC TAC Diff
Entries 623419
BBC-S TAC Diff
VPD TAC Diff
Entries 623419
BBC-S TAC Diff
ZDC TAC Diff
Entries 623419
VPD TAC Diff
ZDC TAC Diff

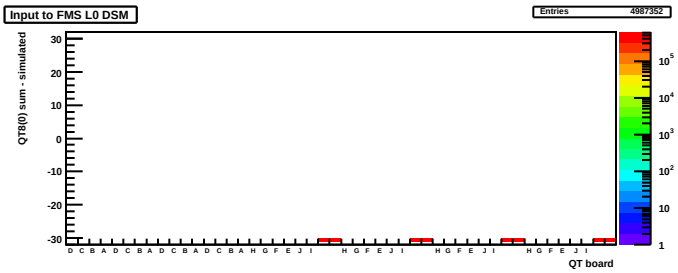

Input to QT1 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

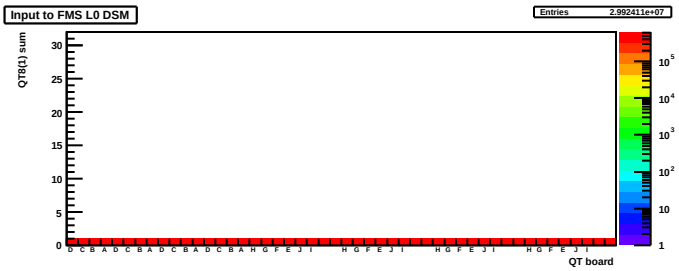

Input to QT2 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

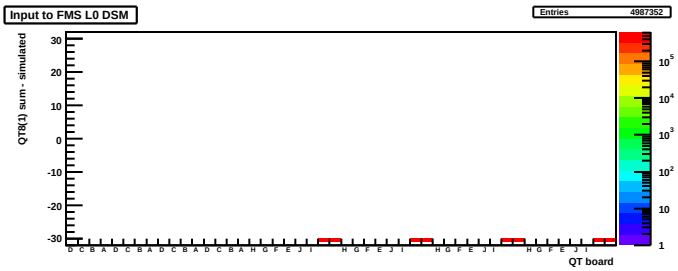

Input to QT3 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

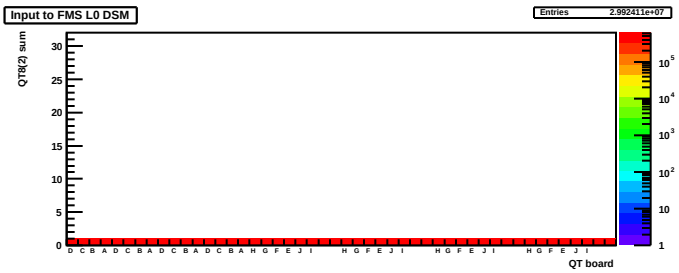

Input to QT4 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

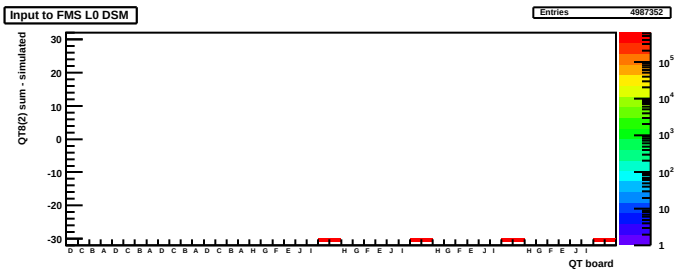

Input to FMS L0 DSM
Entries 2.992411e+07
QT8(0) sum
QT board

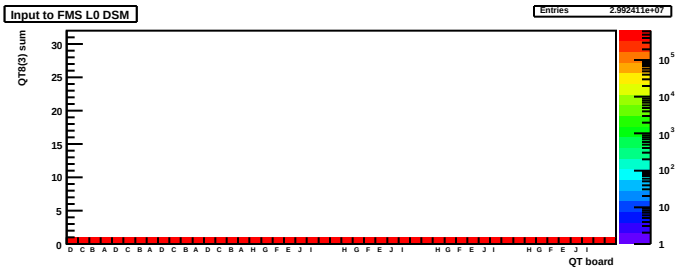

Input to FMS L0 DSM
Entries 4987352
QT8(0) sum - simulated
QT board

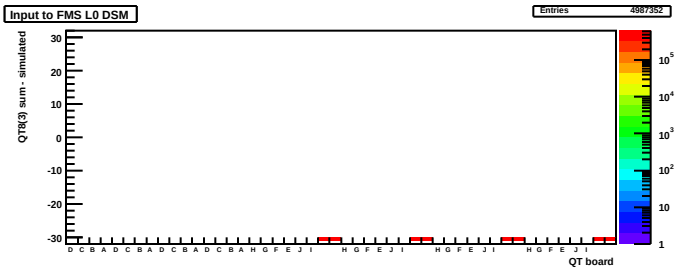

Input to FMS L0 DSM
Entries 2.992411e+07
QT8(1) sum
QT board

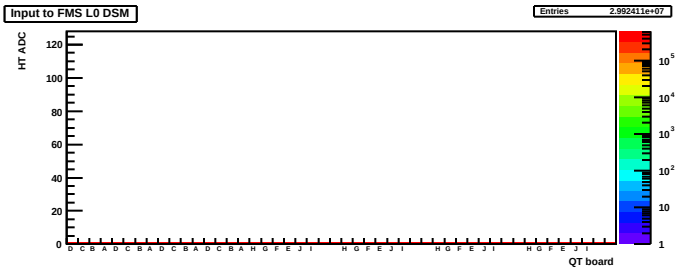

Input to FMS L0 DSM
Entries 4987352
QT8(1) sum - simulated
QT board

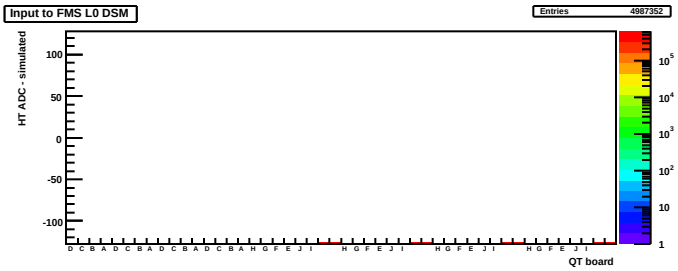

Input to FMS L0 DSM
Entries 2.992411e+07
QT8(2) sum
QT board

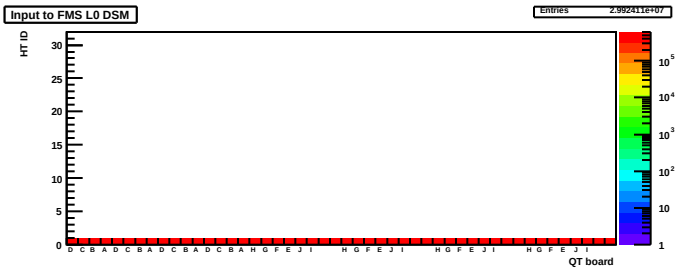

Input to FMS L0 DSM
Entries 4987352
QT8(2) sum - simulated
QT board

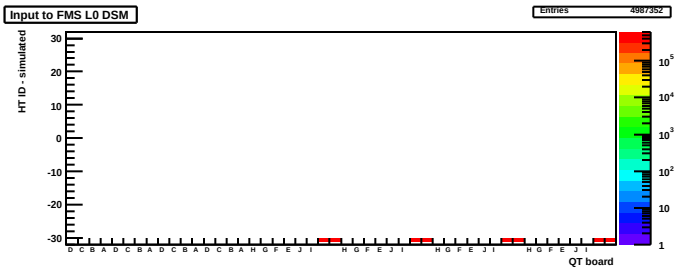

Input to FMS L0 DSM
Entries 2.992411e+07
QT8(3) sum
QT board

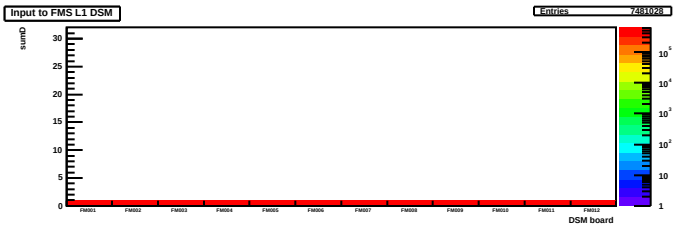

Input to FMS L0 DSM
Entries 4987352
QT8(3) sum - simulated
QT board

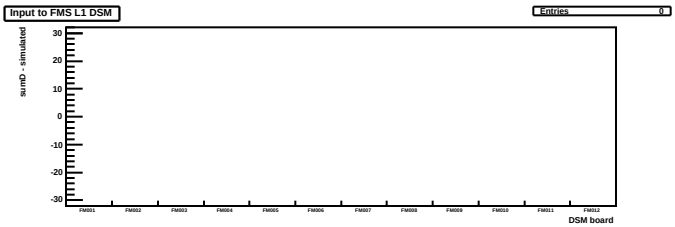

Input to FMS L0 DSM
Entries 2.992411e+07
HT ADC
QT board

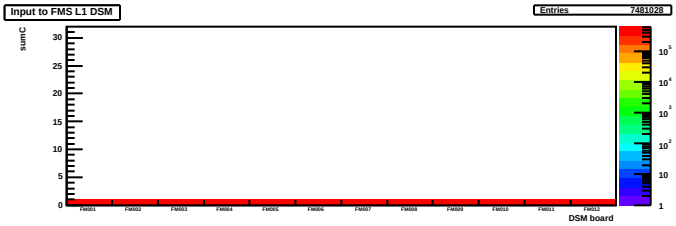

Input to FMS L0 DSM
Entries 4987352
HT ADC - simulated
QT board

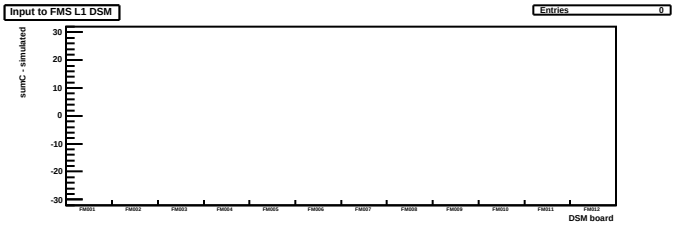

Input to FMS L0 DSM
Entries 2.992411e+07
HT ID
QT board

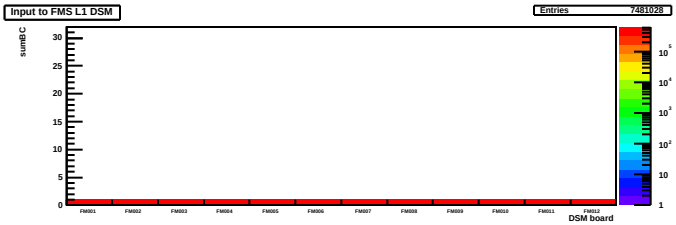

Input to FMS L0 DSM
Entries 4987352
HT ID - simulated
QT board

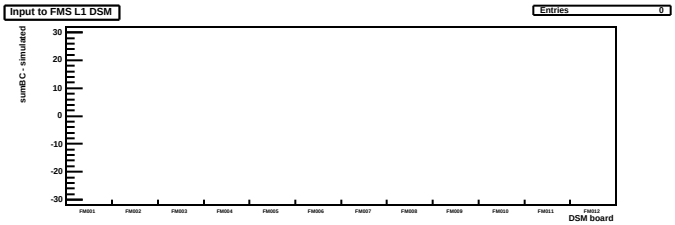

Input to FMS L1 DSM
Entries 7481028
sumD
DSM board

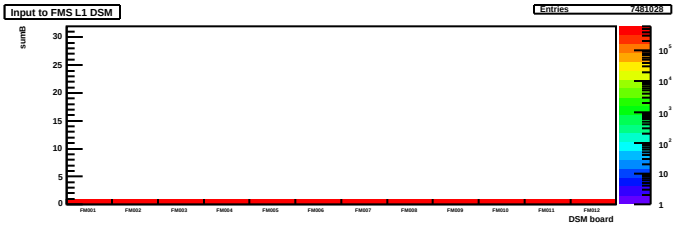

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

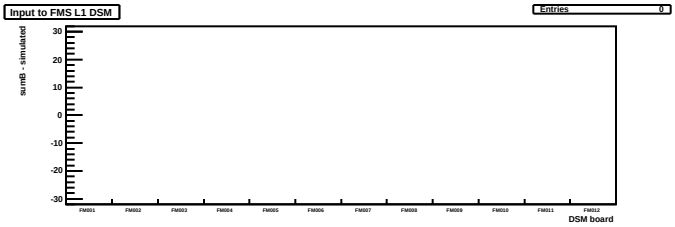

Input to FMS L1 DSM
Entries 7481028
sumC
DSM board

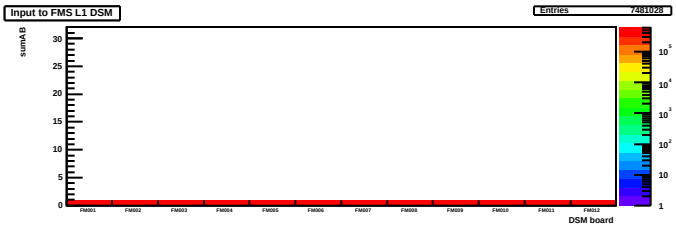

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

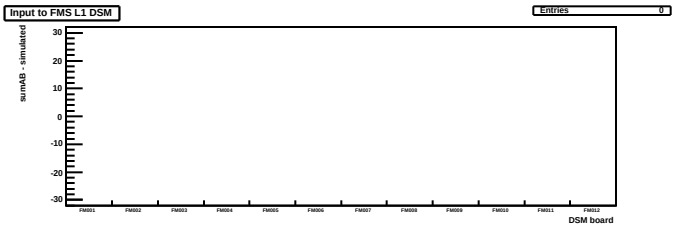

Input to FMS L1 DSM
Entries 7481028
sumBC
DSM board

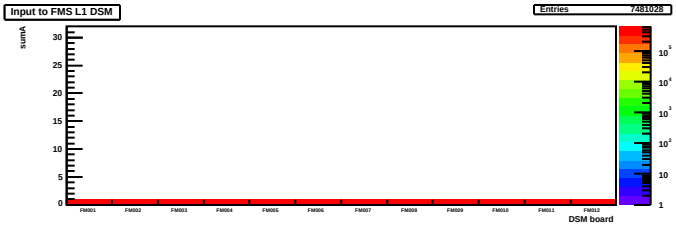

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

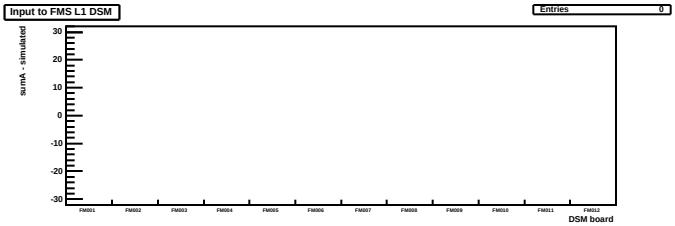

Input to FMS L1 DSM
Entries 7481028
sumB
DSM board

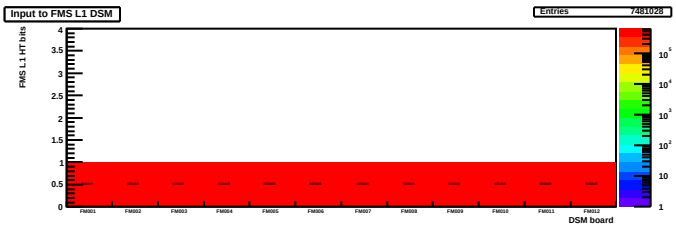

Input to FMS L1 DSM
Entries 0
sumB - simulated
DSM board

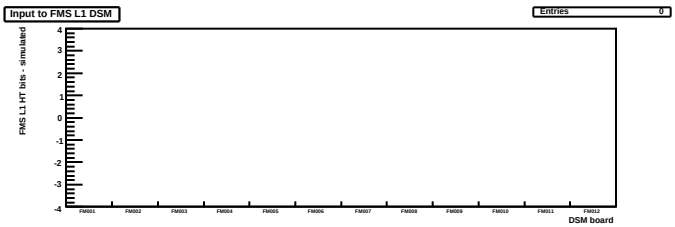

Input to FMS L1 DSM
Entries 7481028
sumAB
DSM board

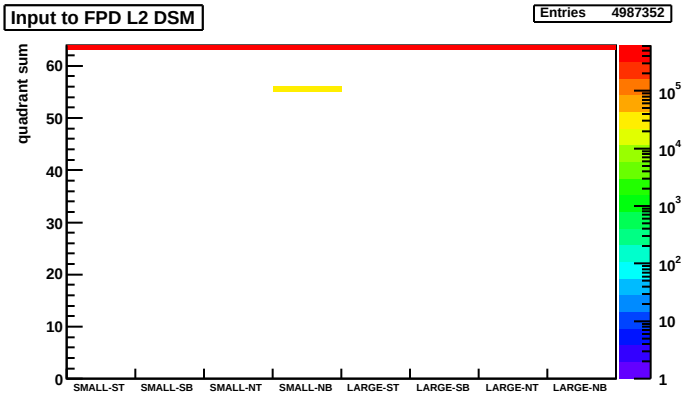

Input to FMS L1 DSM
Entries 0
sumAB - simulated
DSM board

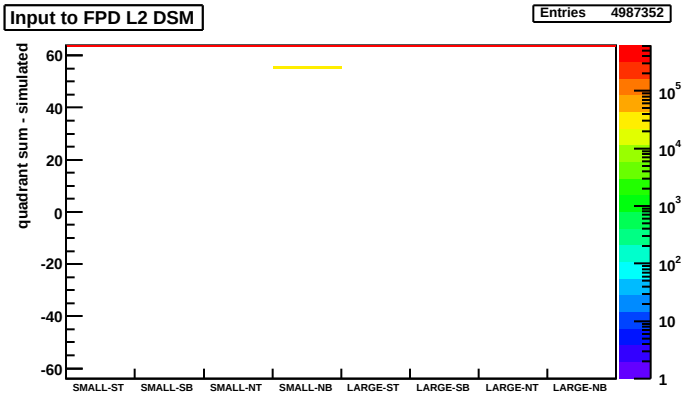

Input to FMS L1 DSM
Entries 7481028
sumA
DSM board

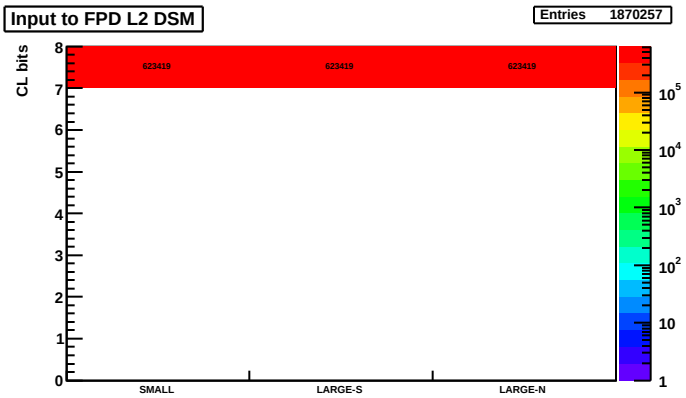

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

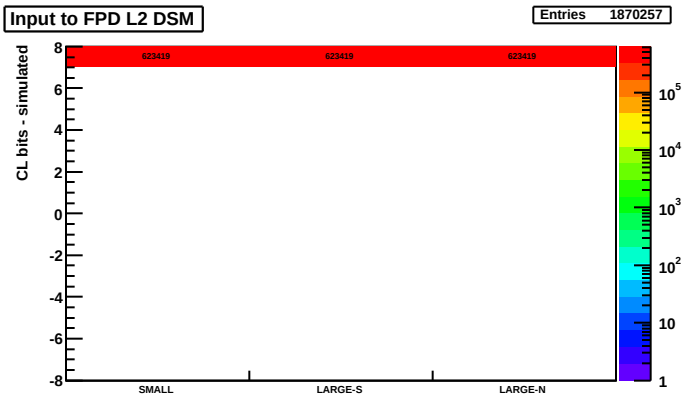

Input to FMS L1 DSM
Entries 7481028
FMS L1 HT bits
DSM board

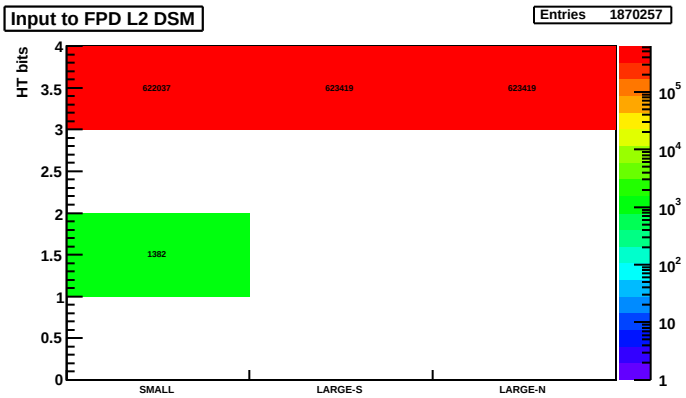

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

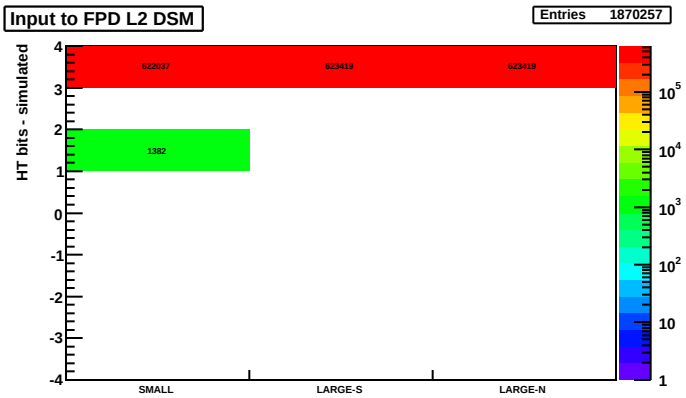

Input to FPD L2 DSM
Entries 4987352
quadrant sum
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

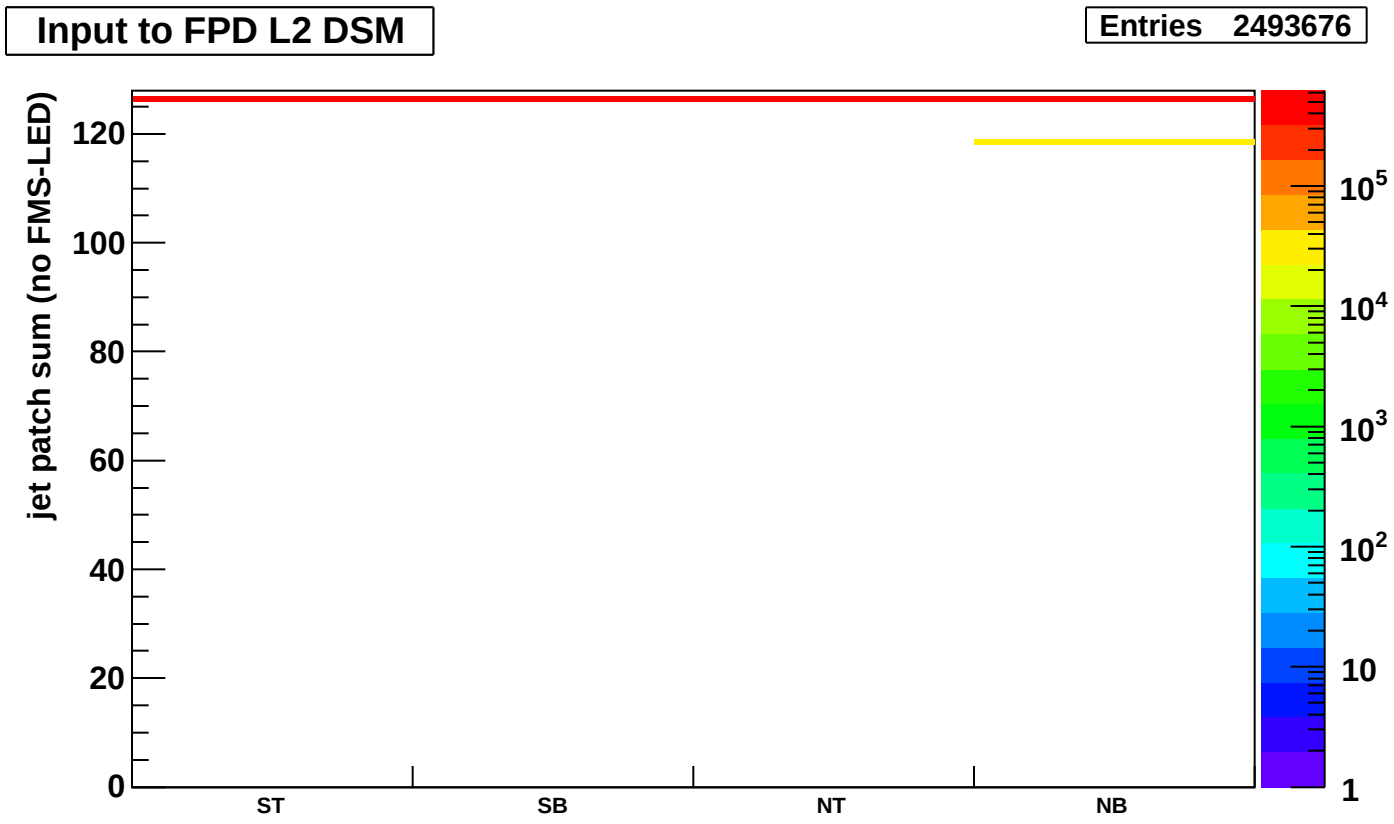

Input to FPD L2 DSM
Entries 4987352
quadrant sum - simulated
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

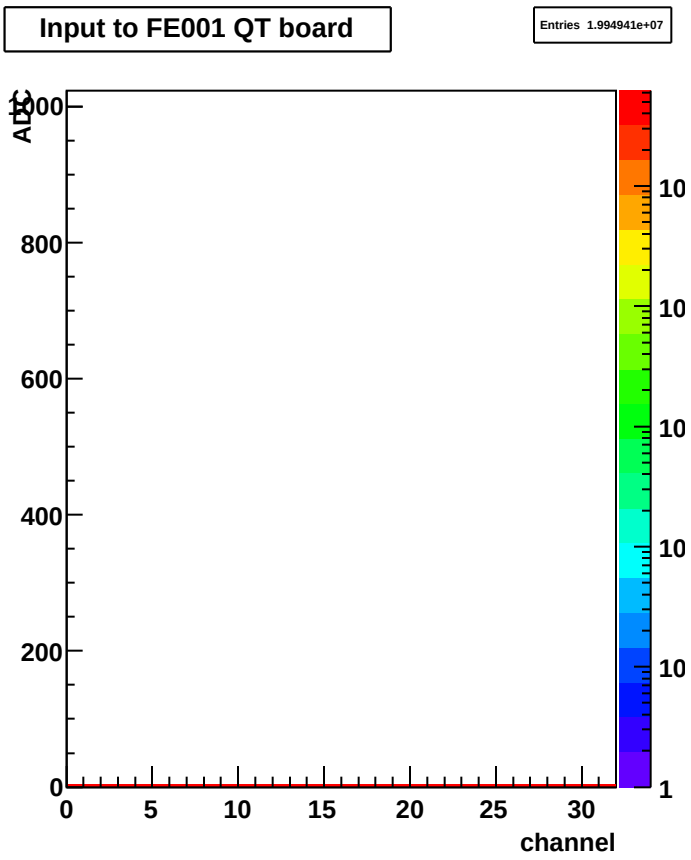

Input to FPD L2 DSM
Entries 1870257
CL bits
623419
623419
623419
SMALL
LARGE-S
LARGE-N

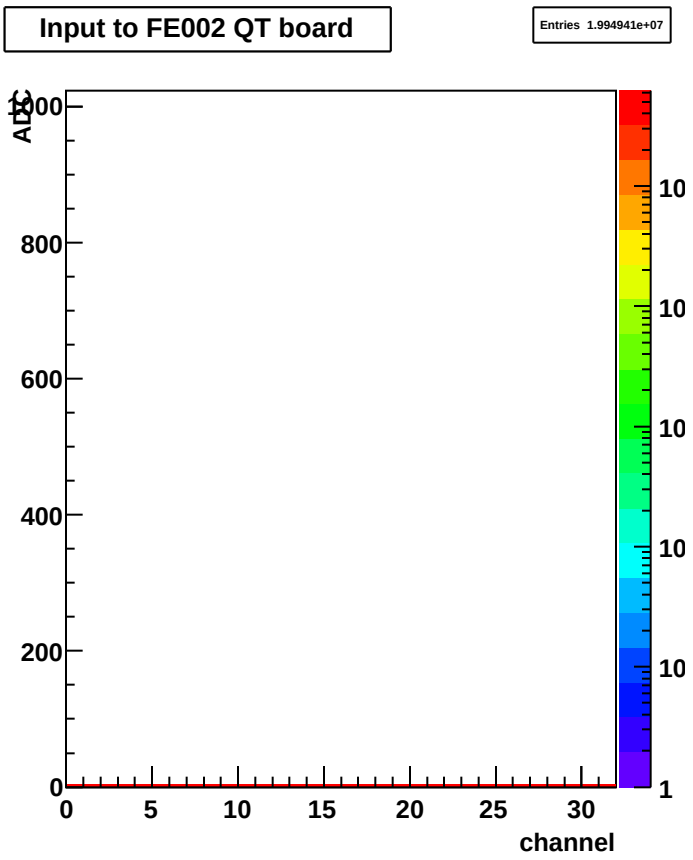

Input to FPD L2 DSM
Entries 1870257
CL bits - simulated
623419
623419
623419
SMALL
LARGE-S
LARGE-N

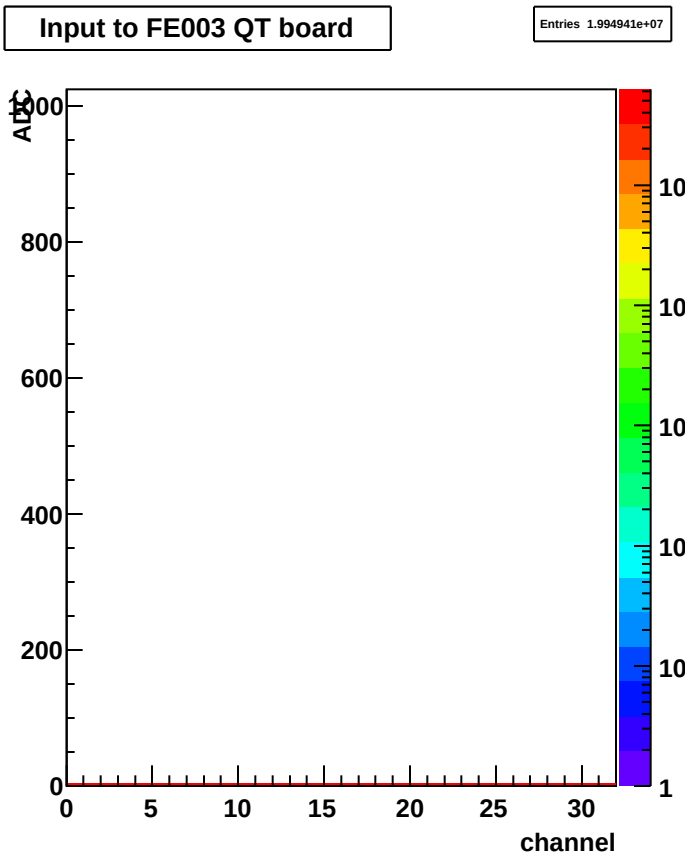

Input to FPD L2 DSM
Entries 1870257
HT bits
622037
623419
623419
1382
SMALL
LARGE-S
LARGE-N

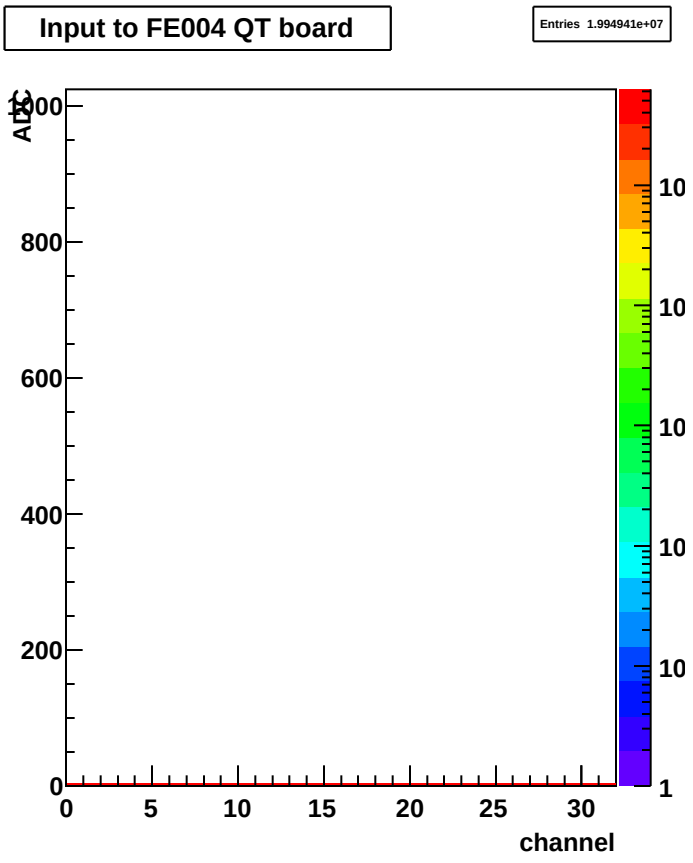

Input to FPD L2 DSM
Entries 1870257
HT bits - simulated
622037
623419
623419
1382
SMALL
LARGE-S
LARGE-N


Input to FPD L2 DSM
Entries 2493676
jet patch sum (no FMS-LED)
120
100
80
60
40
20
0
ST
SB
NT
NB
10^5
10^4
10^3
10^2
10
1

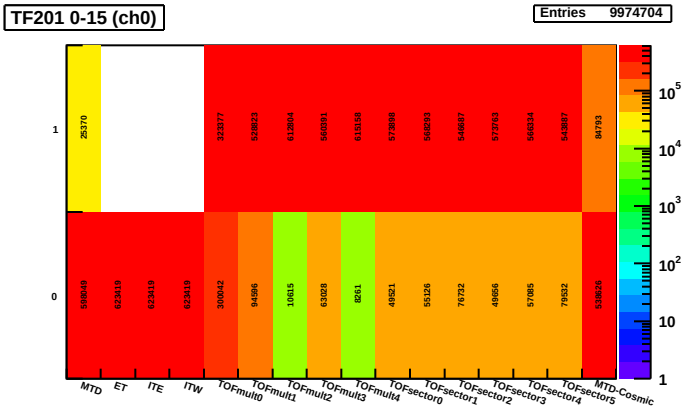

Input to FE001 QT board
Entries 1.994941e+07
ADC
channel


Input to FE002 QT board
Entries 1.994941e+07
ADC
channel

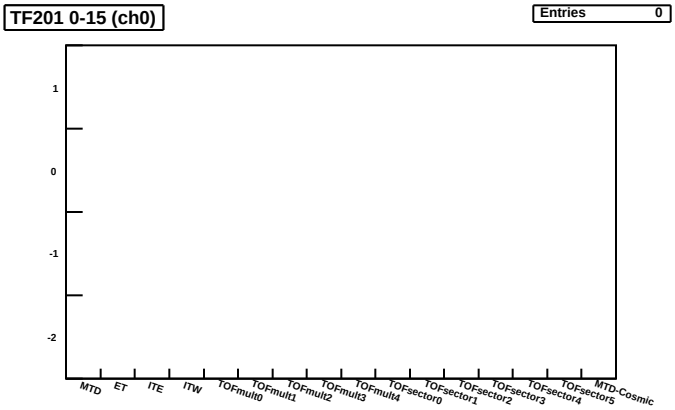

Input to FE003 QT board
Entries 1.994941e+07
ADC
channel


Input to FE004 QT board
Entries 1.994941e+07
ADC
channel

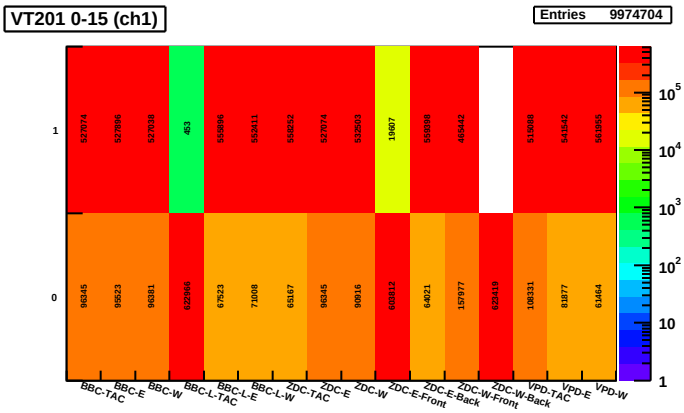
TF201 0-15 (ch0)



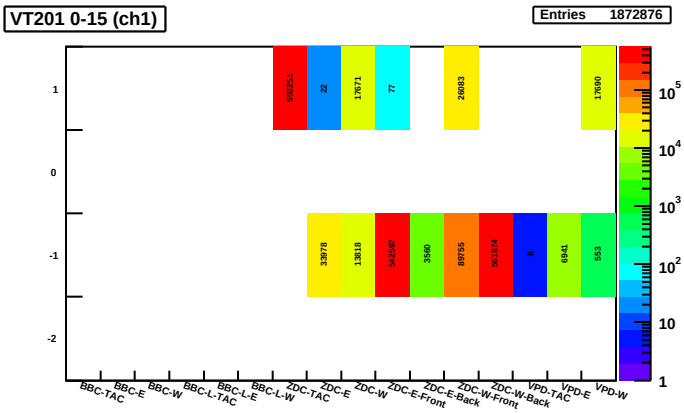
TF201 0-15 (ch0)



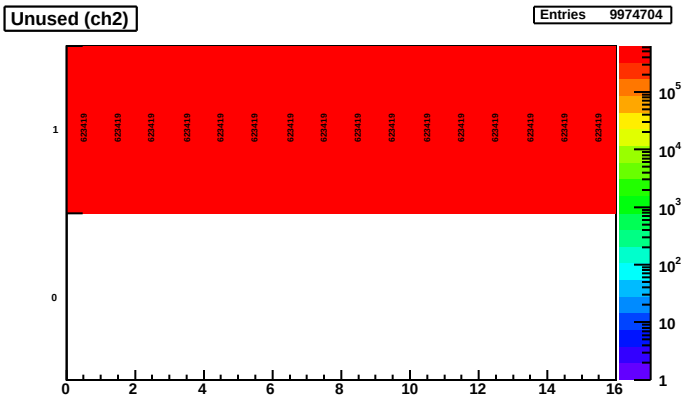
VT201 0-15 (ch1)

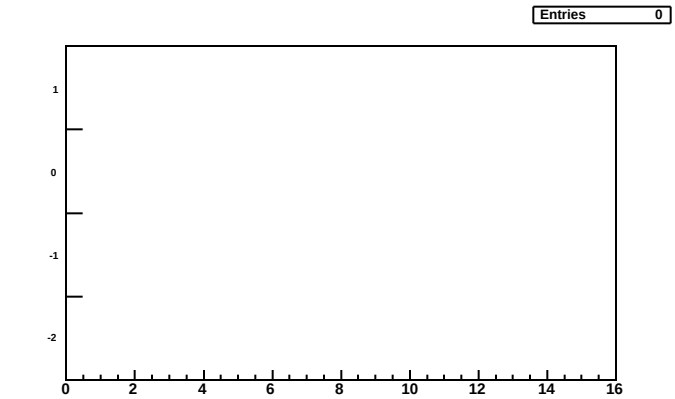


VT201 0-15 (ch1)

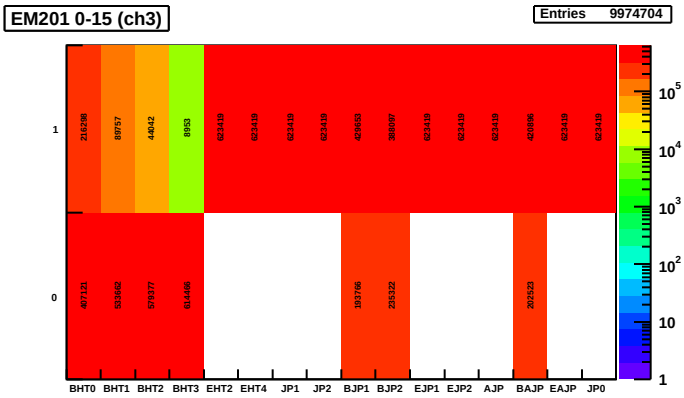


Unused (ch2)

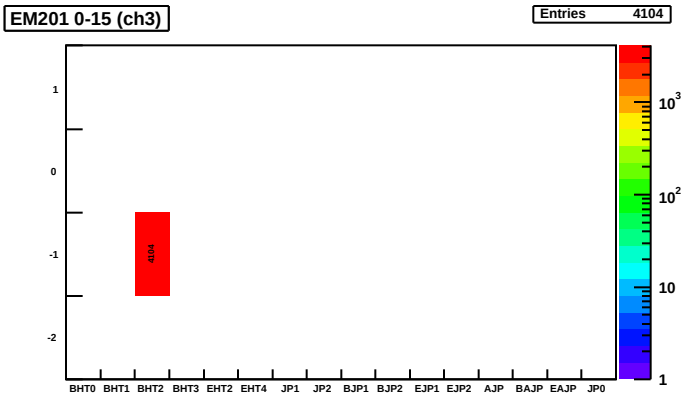




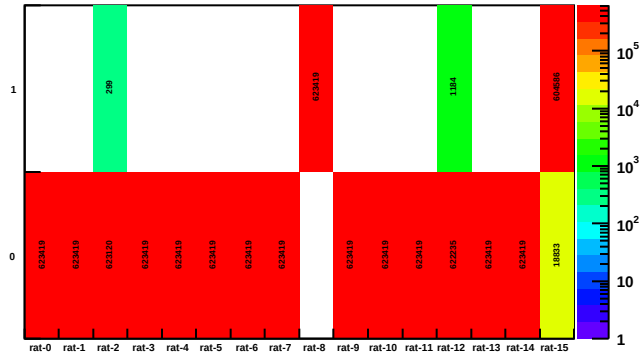
EM201 0-15 (ch3)

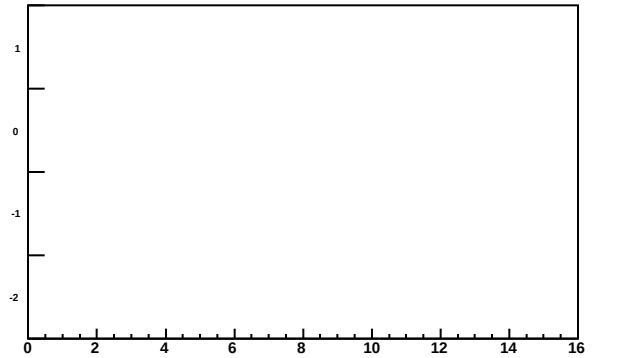


EM201 0-15 (ch3)

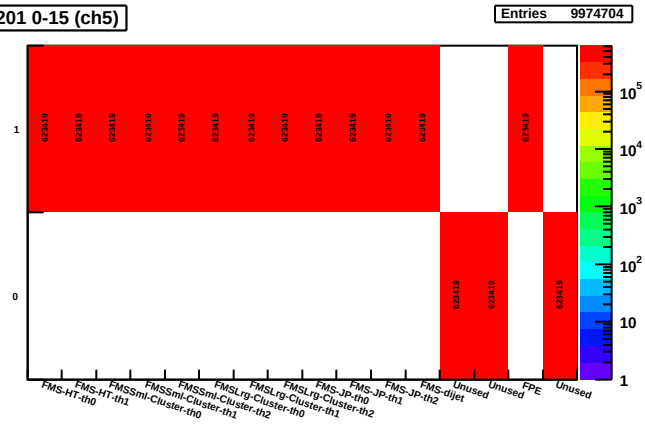


RAT board (ch4)

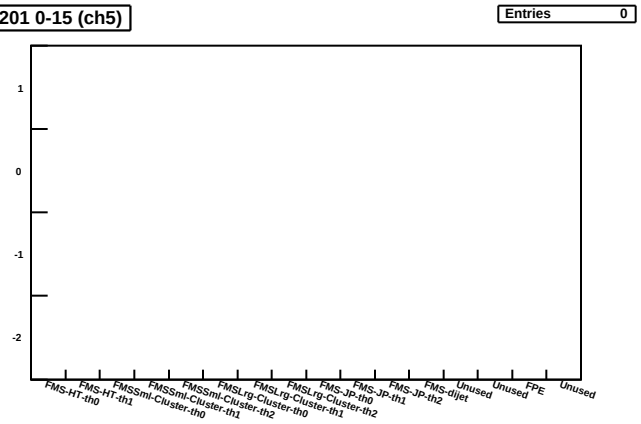




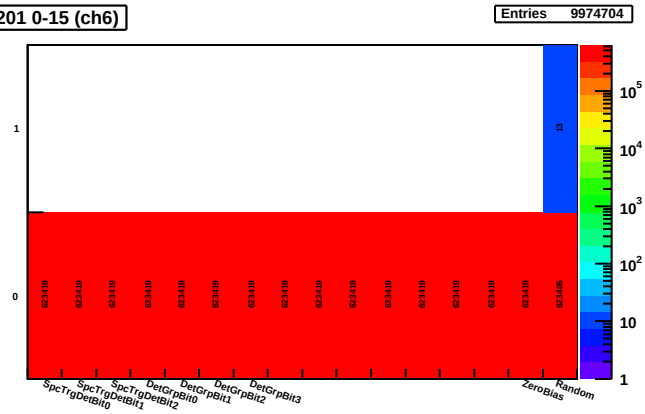
FP201 0-15 (ch5)

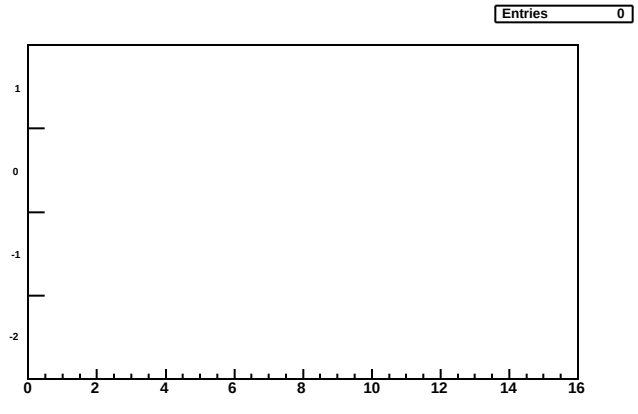
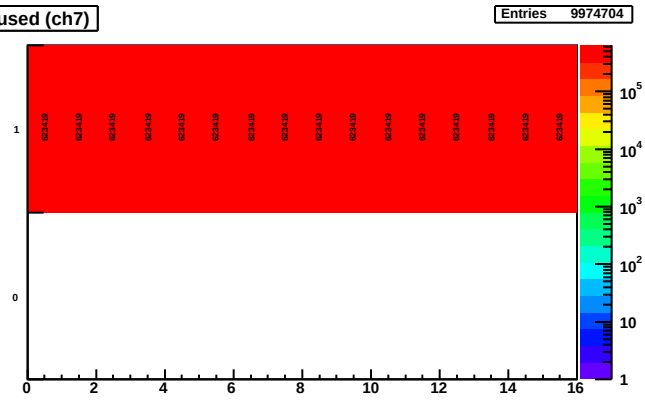
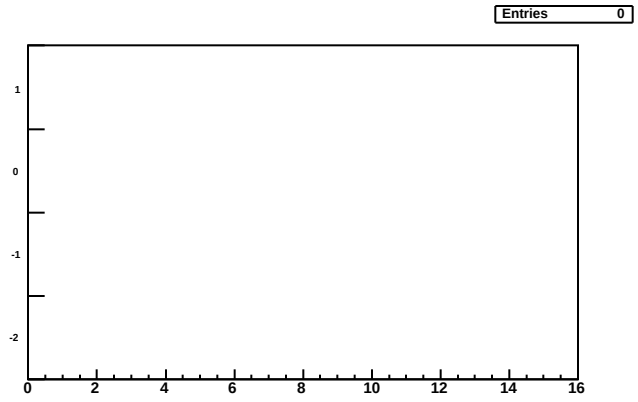


FP201 0-15 (ch5)



ST201 0-15 (ch6)





Unused (ch7)