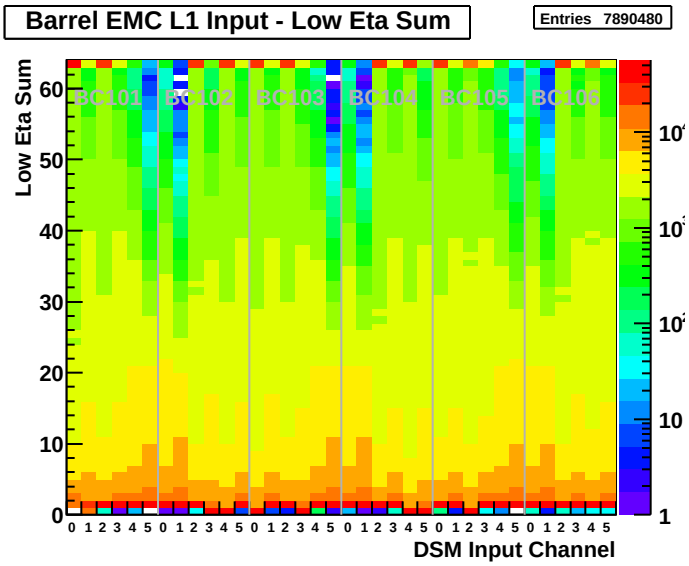
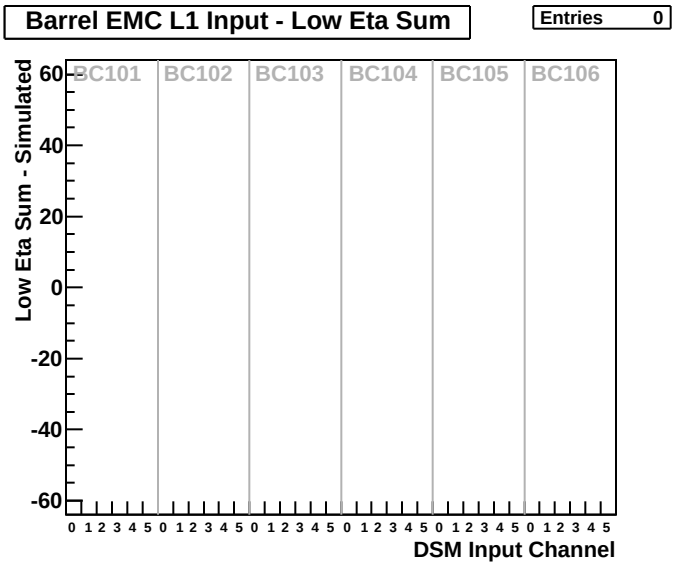
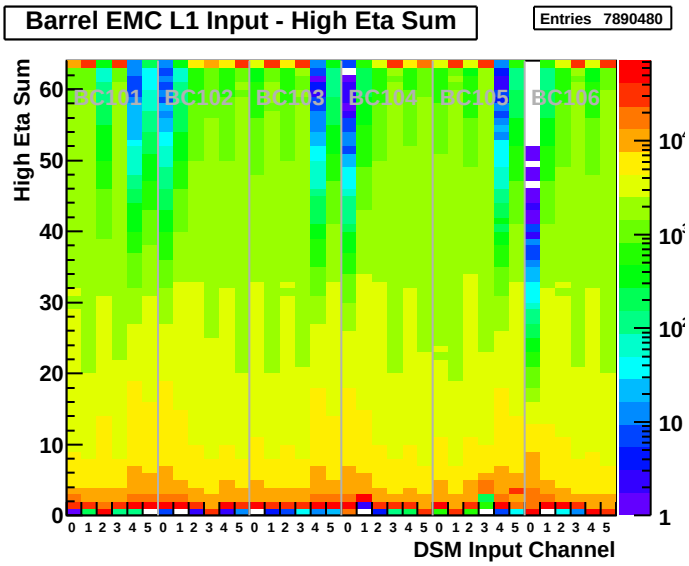
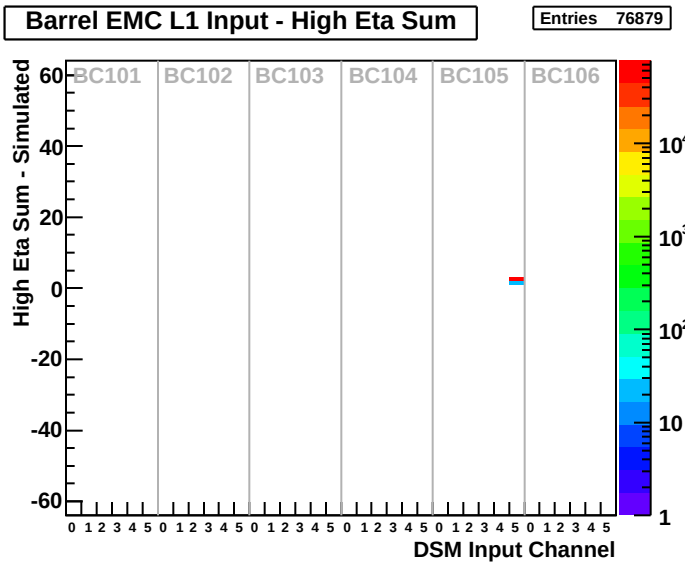
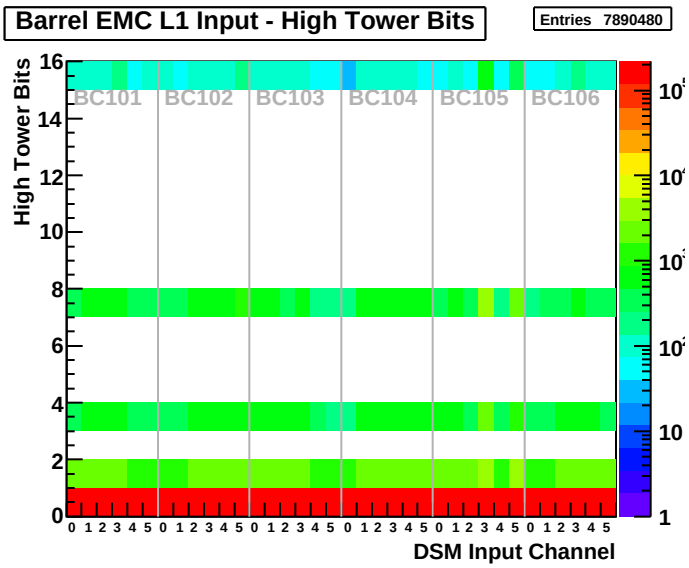
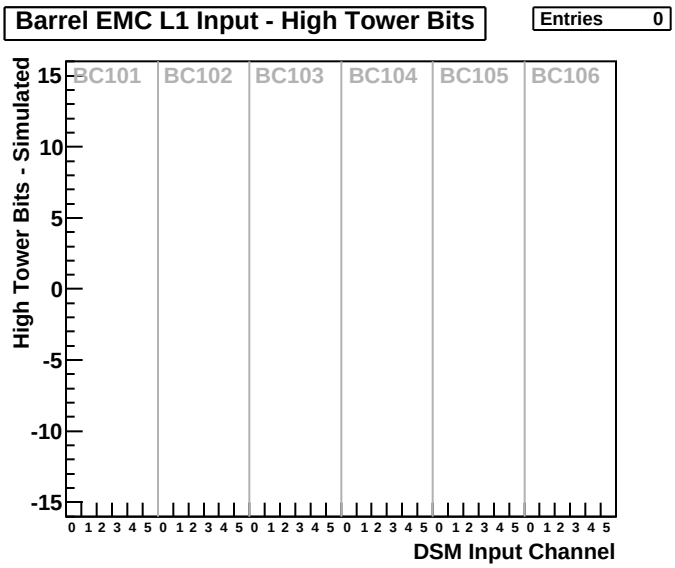

Barrel EMC L1 Input - Low Eta Sum
Entries 7890480
Low Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

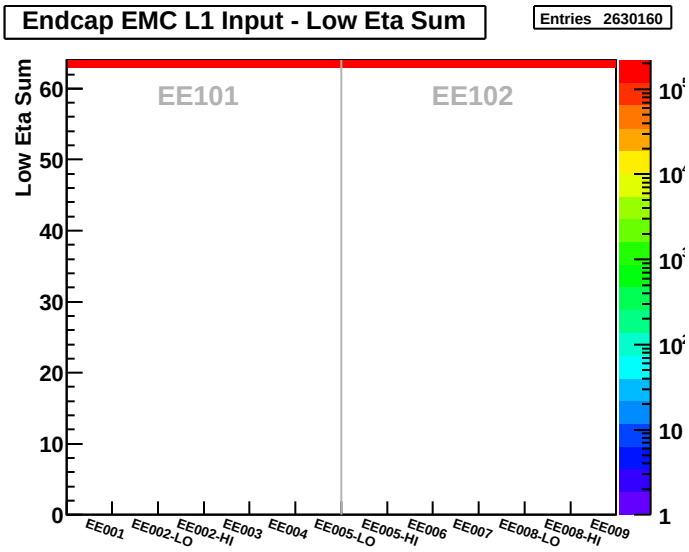

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

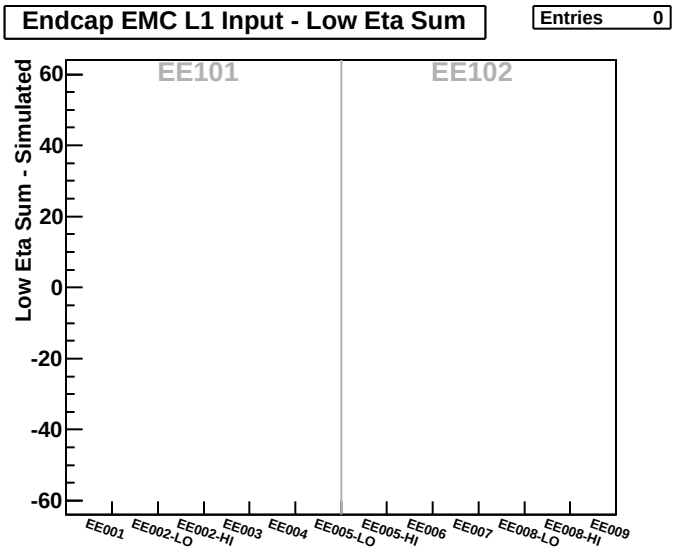

Barrel EMC L1 Input - High Eta Sum
Entries 7890480
High Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

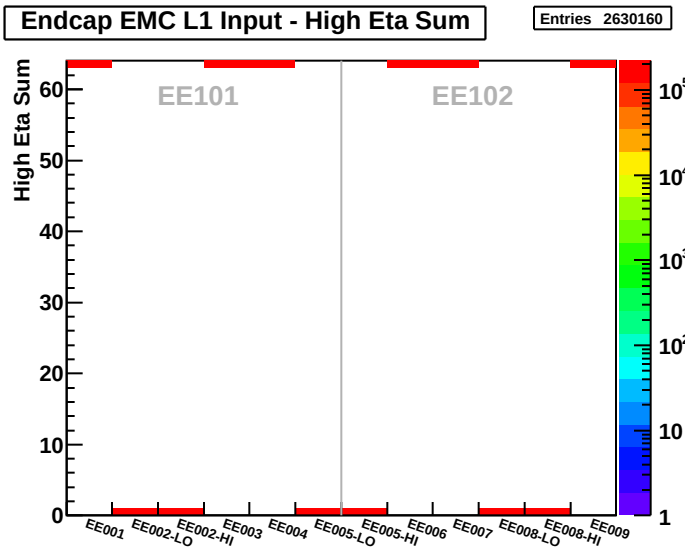

Barrel EMC L1 Input - High Eta Sum
Entries 76879
High Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

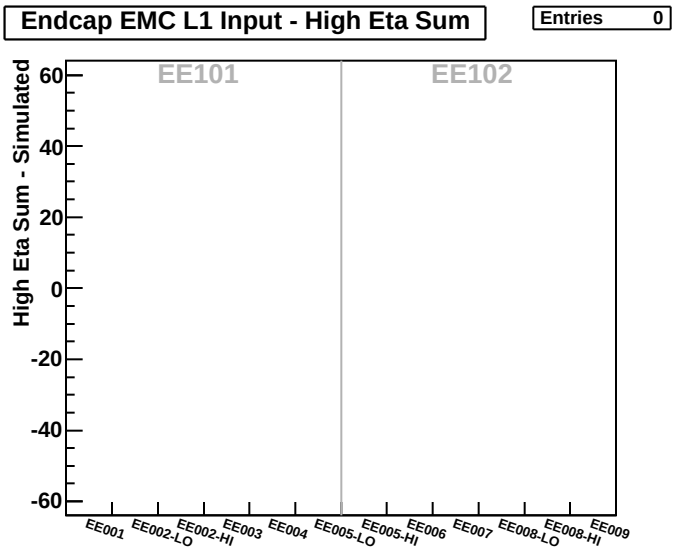

Barrel EMC L1 Input - High Tower Bits
Entries 7890480
High Tower Bits
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

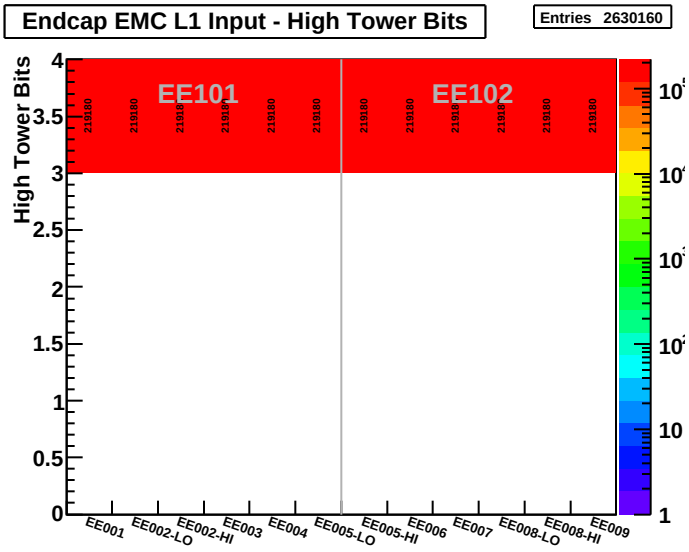

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

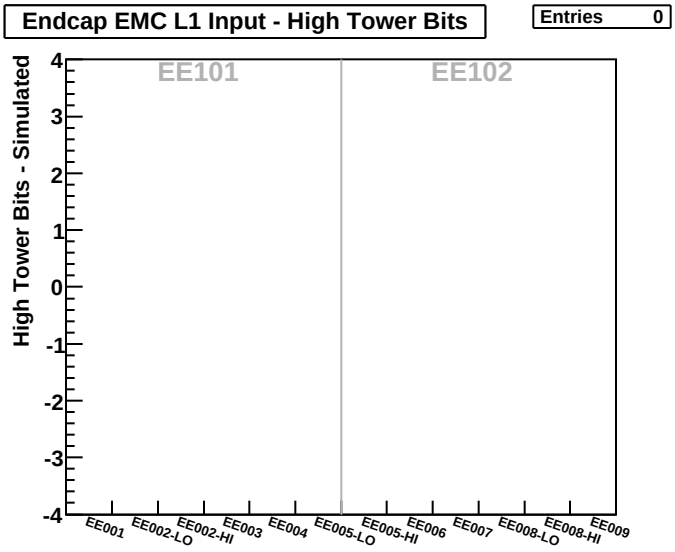

Endcap EMC L1 Input - Low Eta Sum
Entries 2630160
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

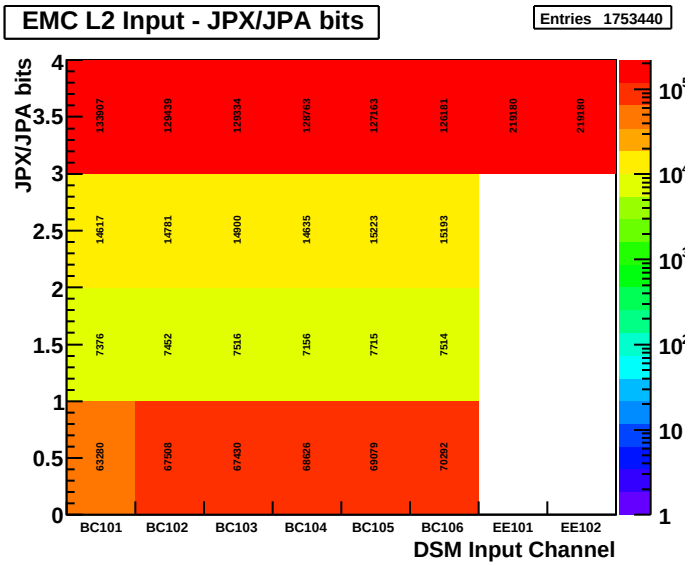

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

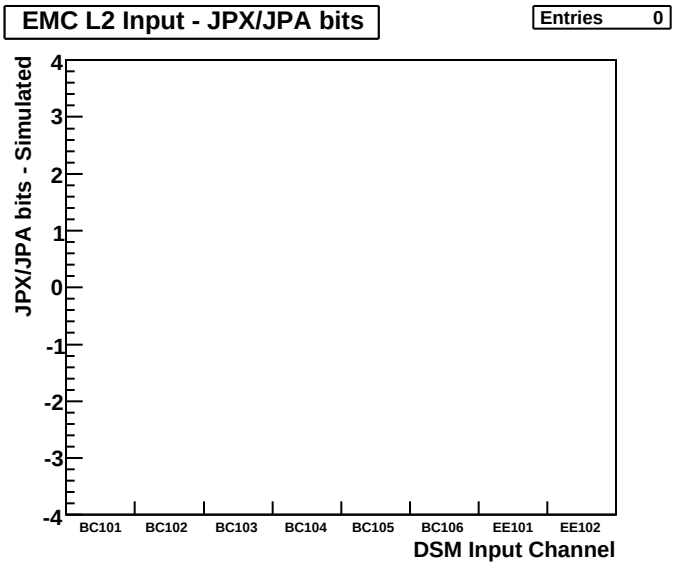

Endcap EMC L1 Input - High Eta Sum
Entries 2630160
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

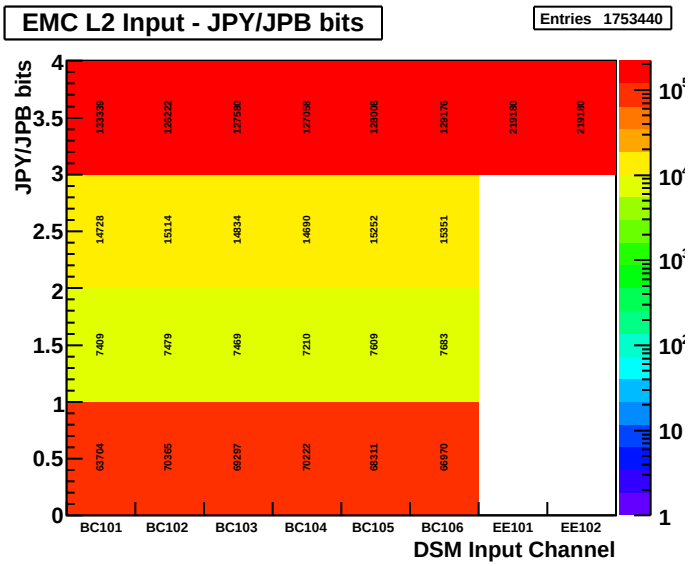

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

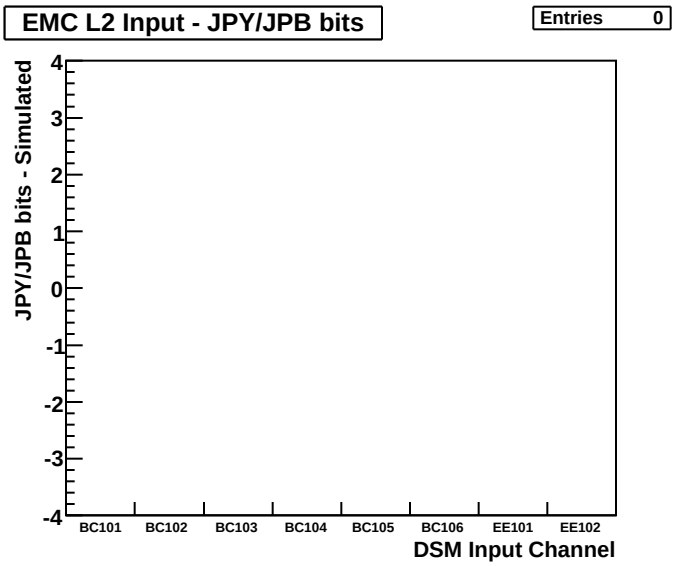

Endcap EMC L1 Input - High Tower Bits
Entries 2630160
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

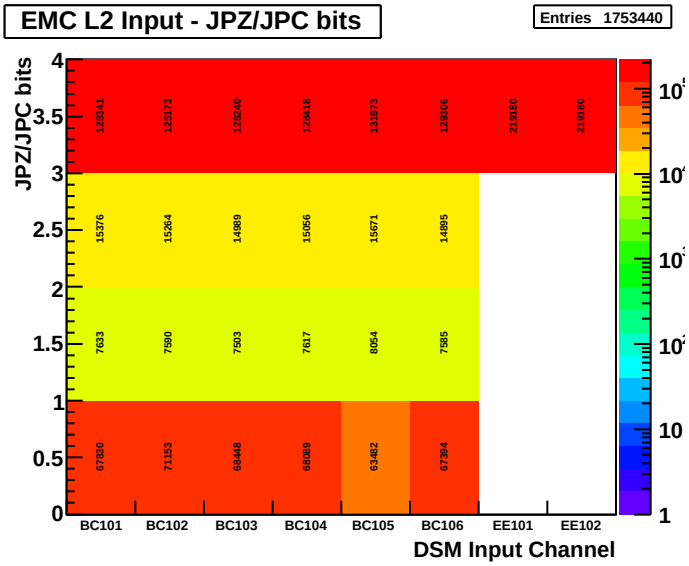

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

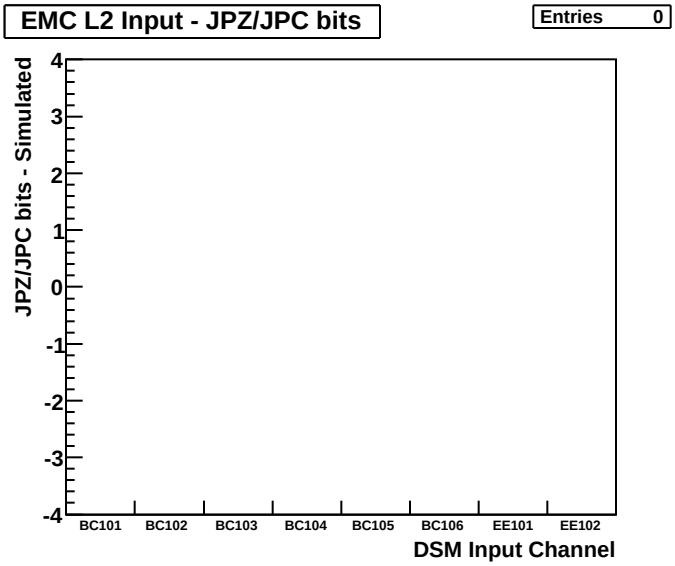

EMC L2 Input - JPX/JPA bits
Entries 1753440
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
133907 129439 128324 128763 127163 126181 219180 219180
14617 14781 14900 14635 15223 15193
7376 7452 7516 7156 7715 7514
63280 67508 67430 68626 69079 70292

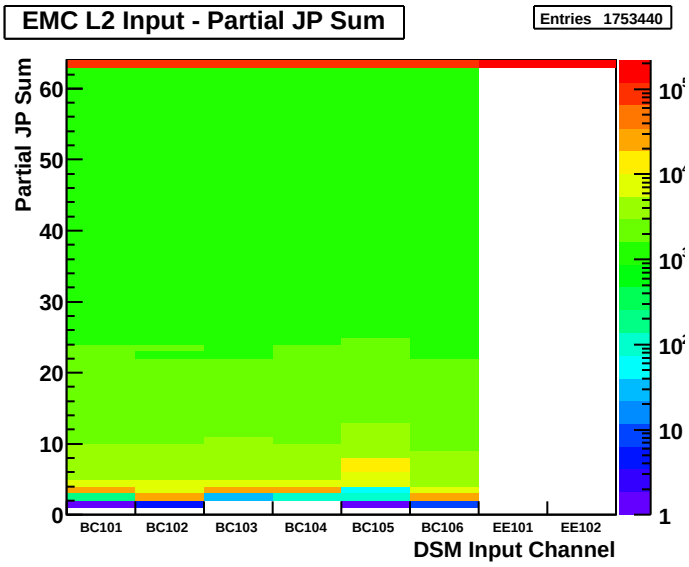

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

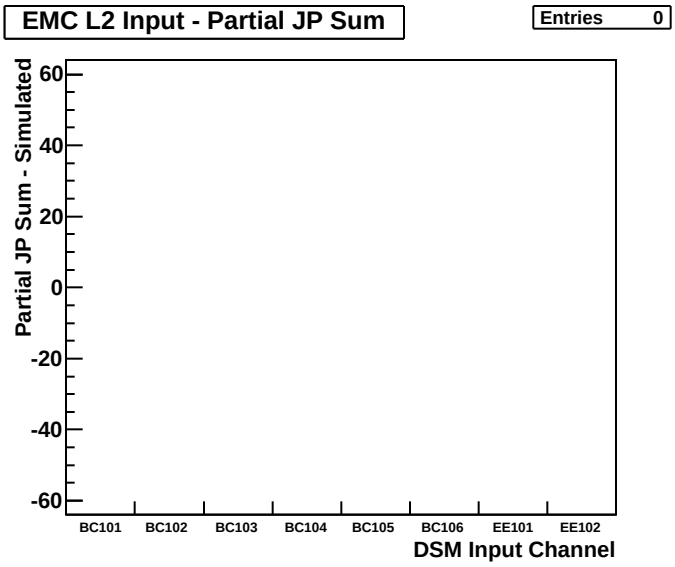

EMC L2 Input - JPY/JPB bits
Entries 1753440
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
133339 126222 127580 127058 128008 129176 219180 219180
14728 15114 14834 14690 15252 15351
7409 7479 7469 7210 7609 7683
63704 70365 69297 70222 68311 66970

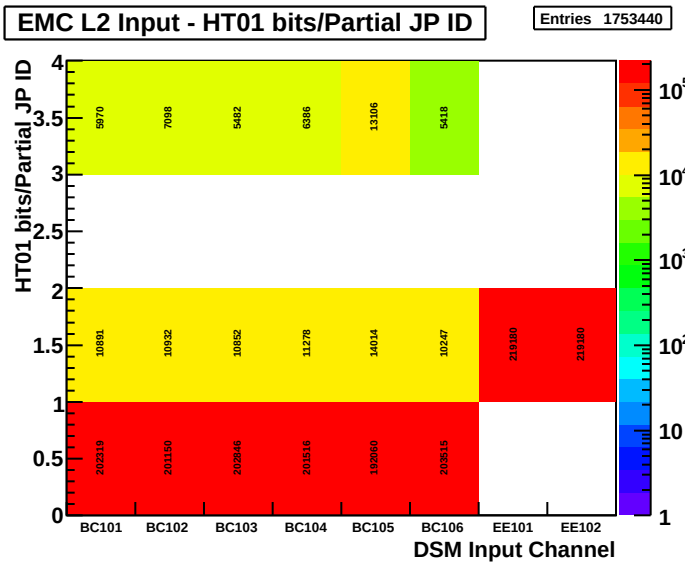

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

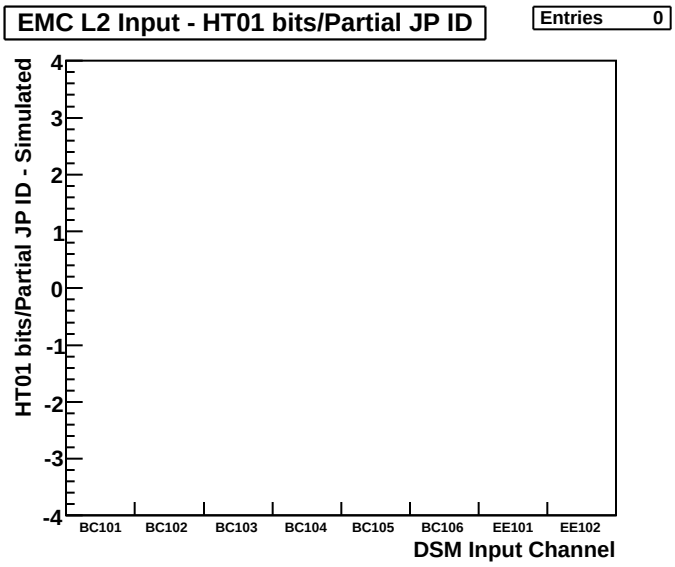

EMC L2 Input - JPZ/JPC bits
Entries 1753440
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
128341 125173 122240 128418 131973 123306 219180 219180
15376 15264 14989 15056 15671 14895
7633 7590 7503 7617 8054 7585
67830 71153 68448 68089 63482 67394

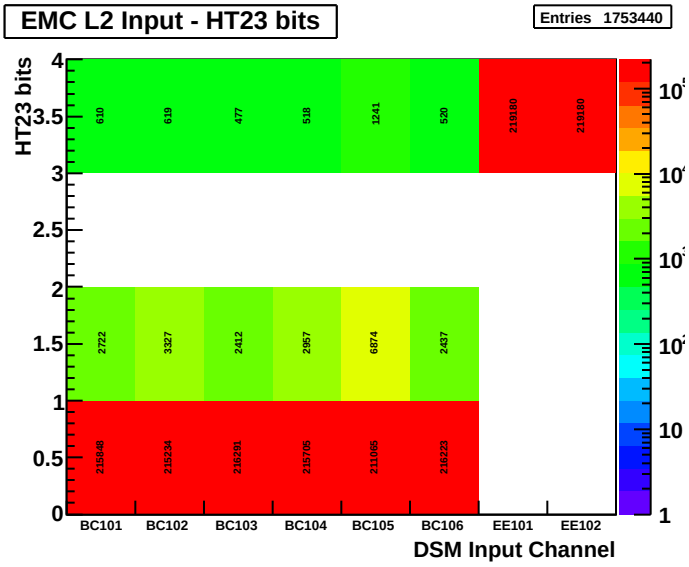

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

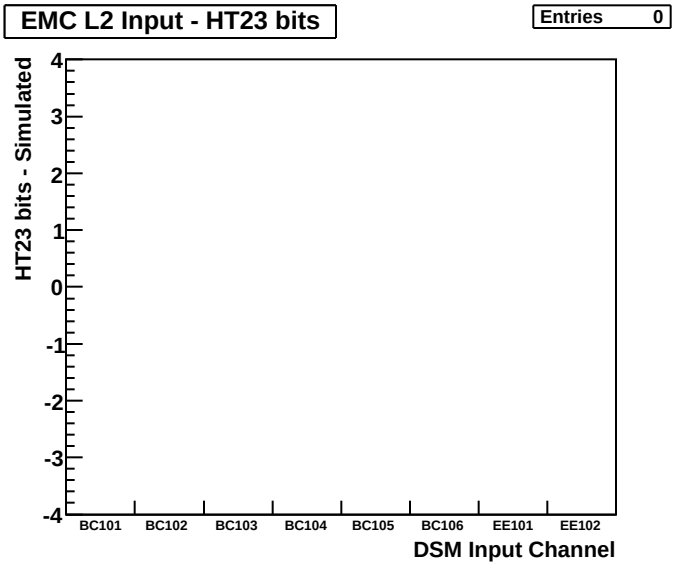

EMC L2 Input - Partial JP Sum
Entries 1753440
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

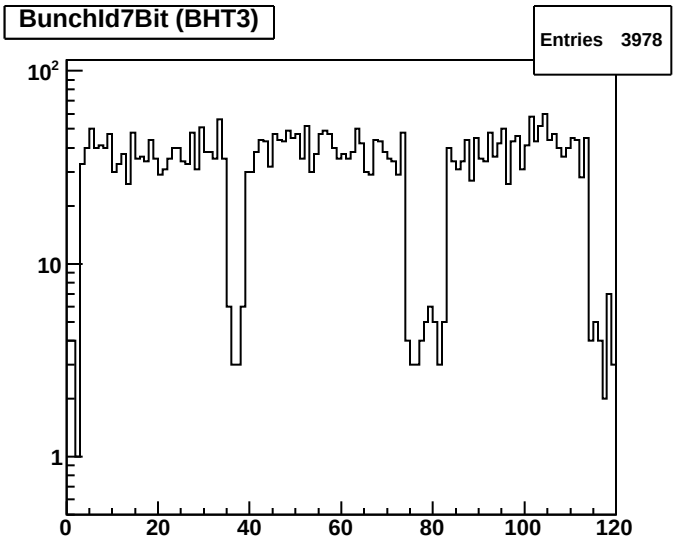

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

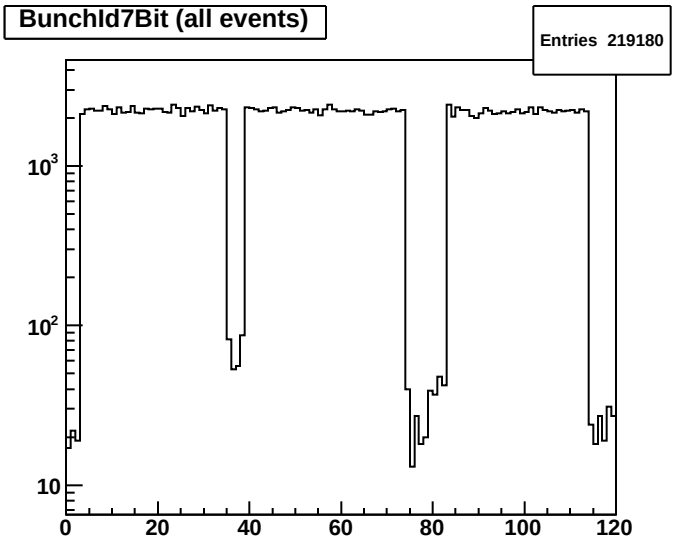

EMC L2 Input - HT01 bits/Partial JP ID
Entries 1753440
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

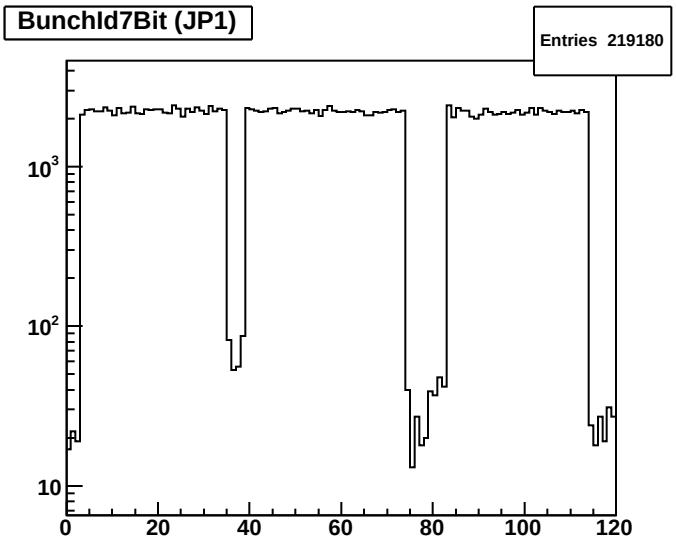

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

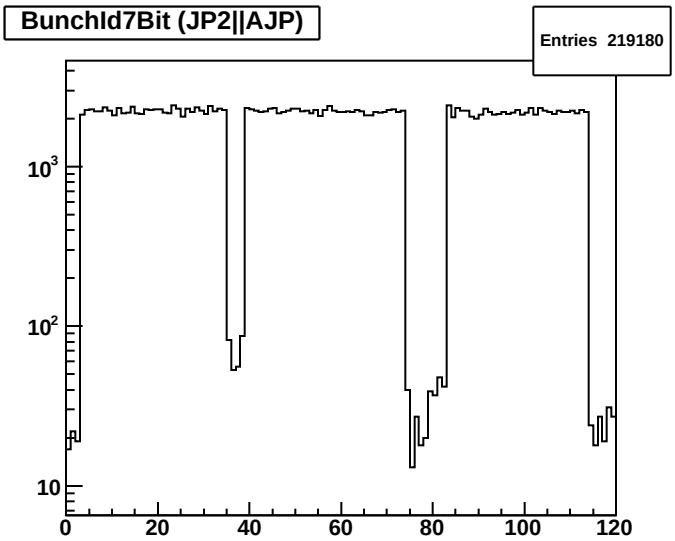

EMC L2 Input - HT23 bits
Entries 1753440
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

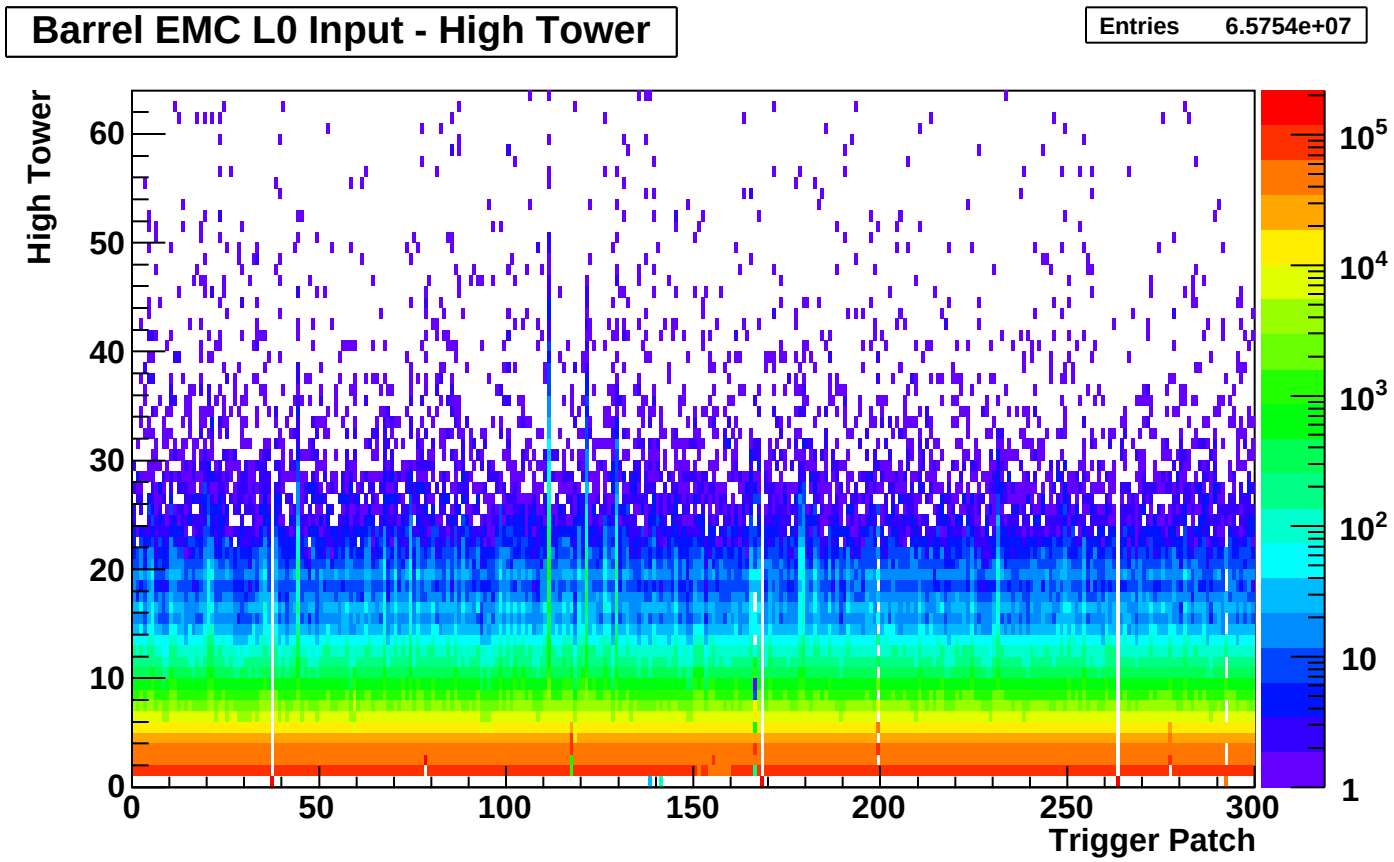

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

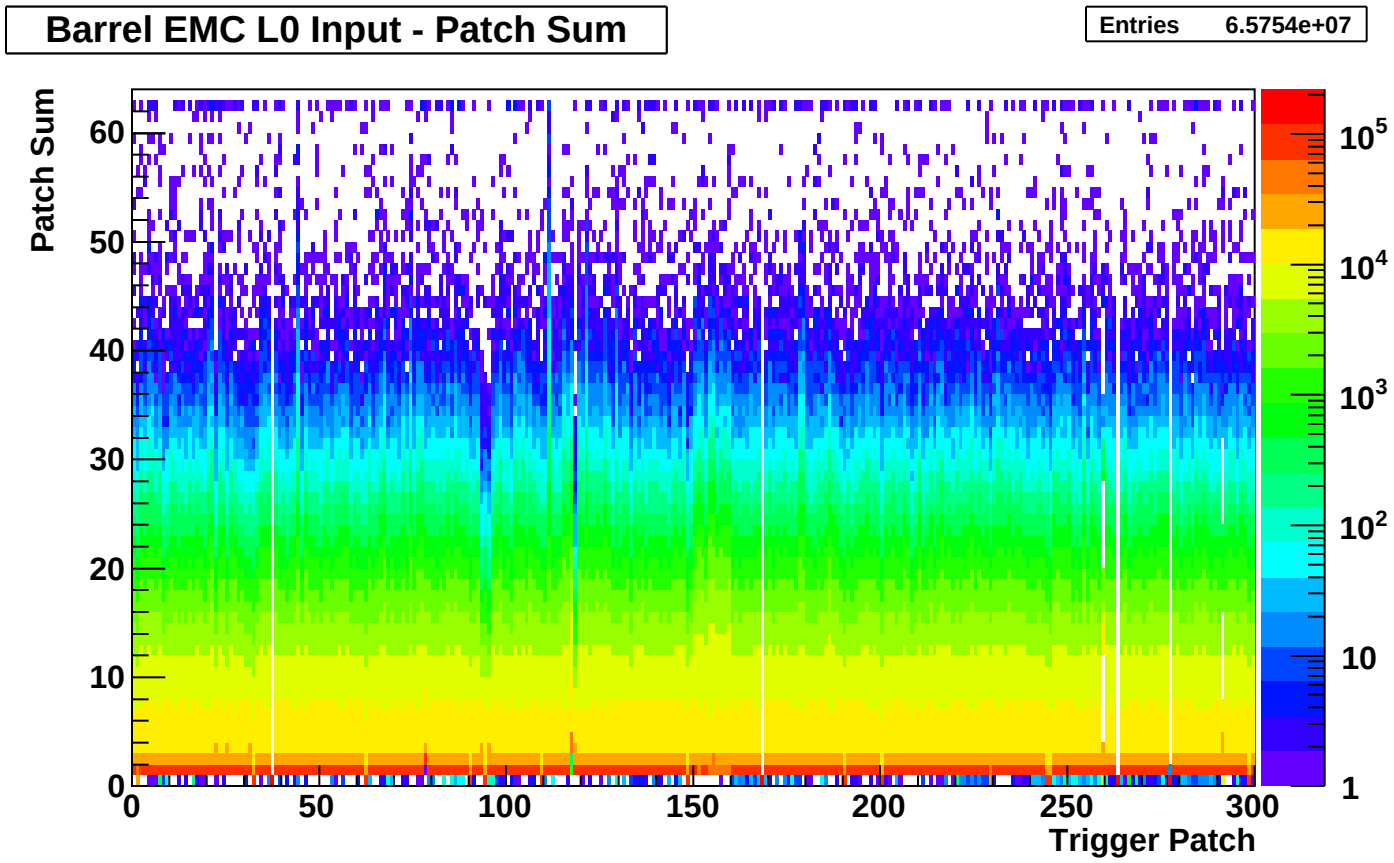

BunchId7Bit (BHT3)
Entries 3978
10^2
10
1
0
20
40
60
80
100
120

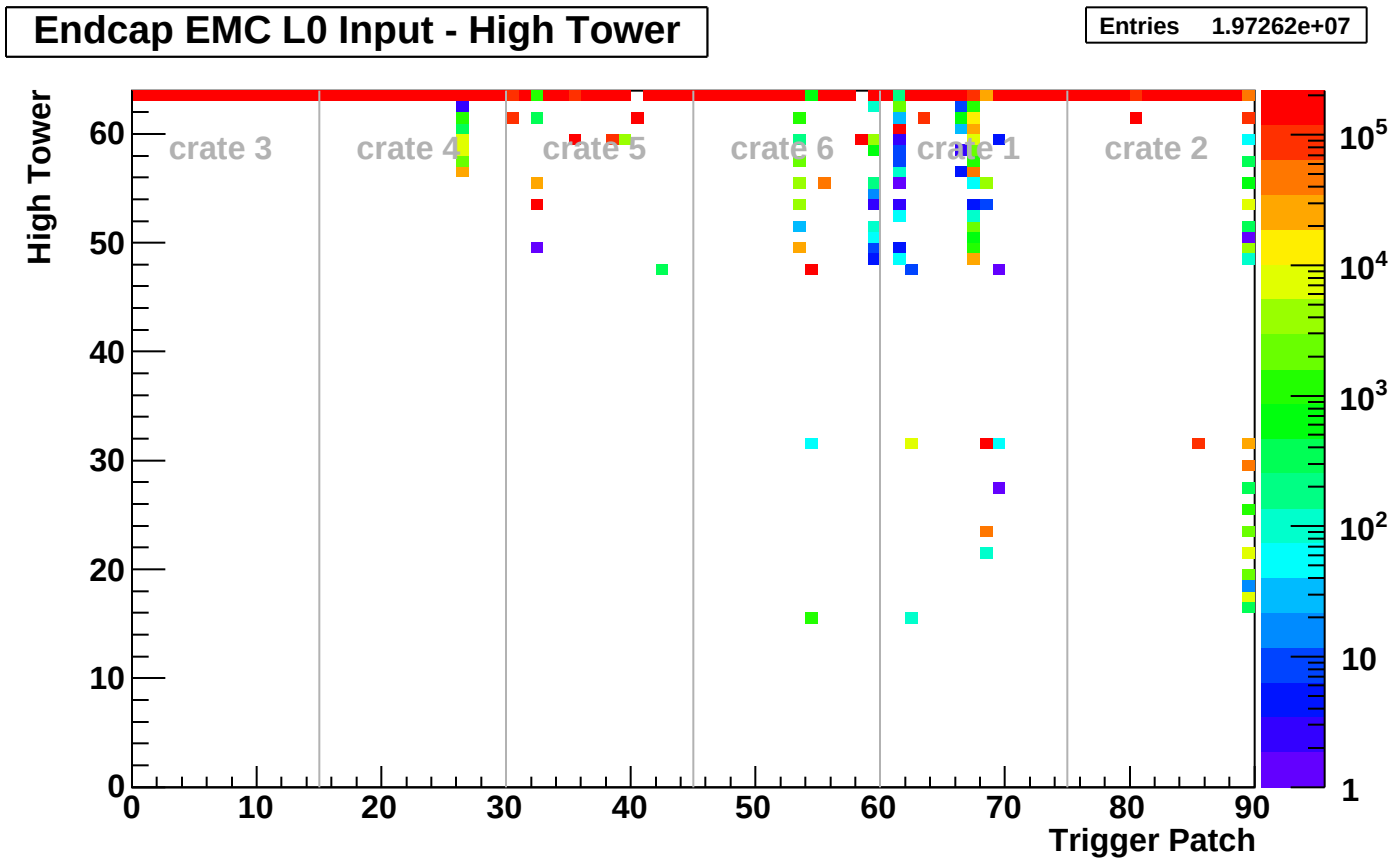

BunchId7Bit (all events)
Entries 219180
10^3
10^2
10
0
20
40
60
80
100
120

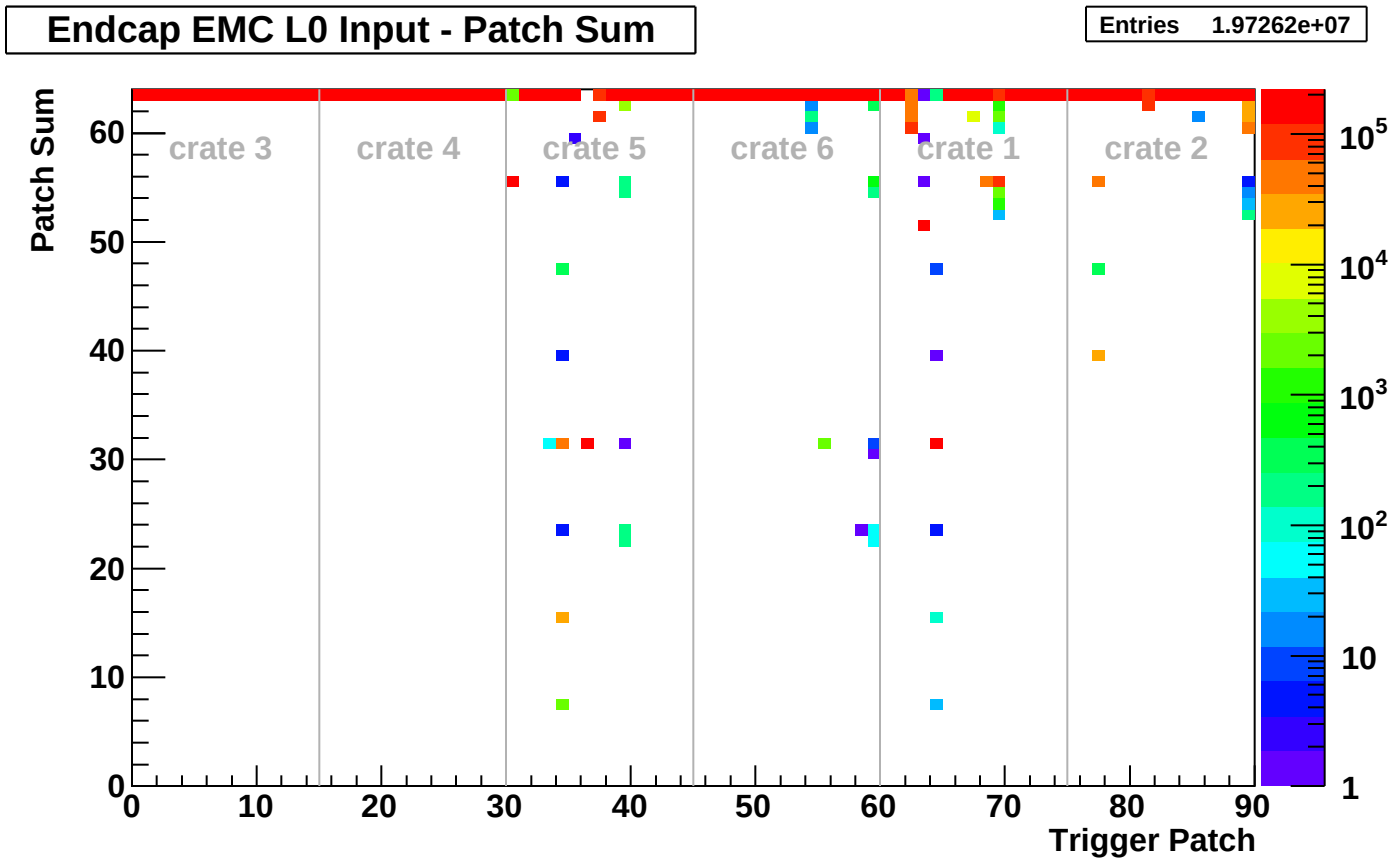

BunchId7Bit (JP1)
Entries 219180
10^3
10^2
10
0
20
40
60
80
100
120

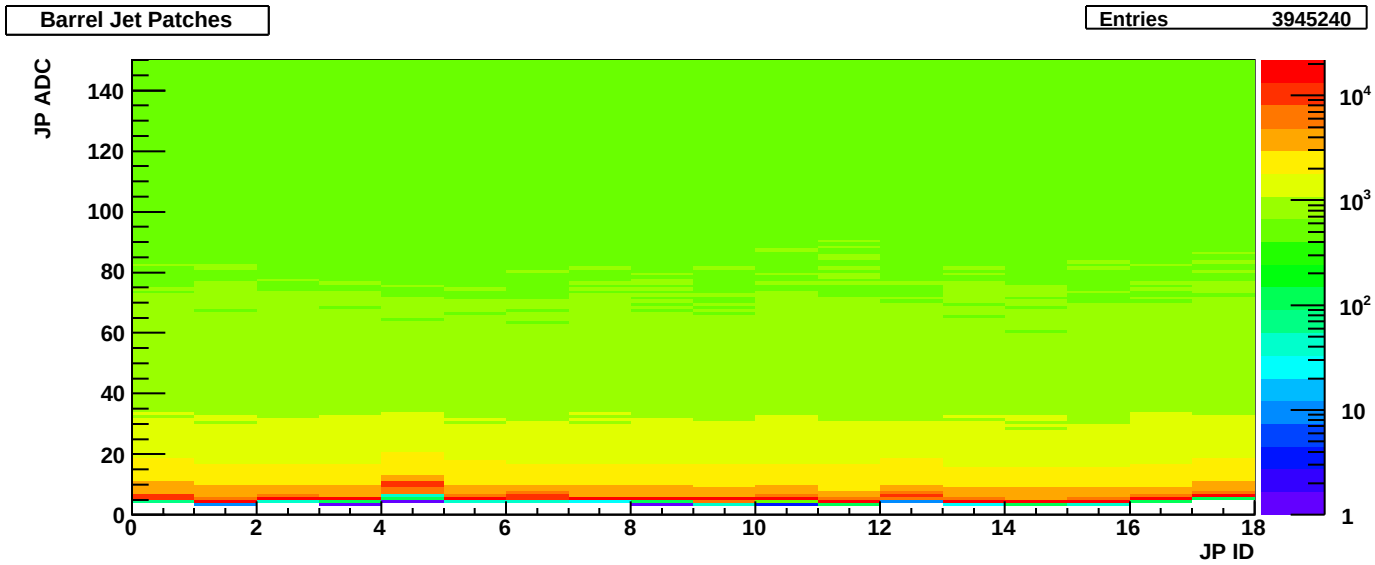

BunchId7Bit (JP2||AJP)
Entries 219180
10^3
10^2
10
0
20
40
60
80
100
120

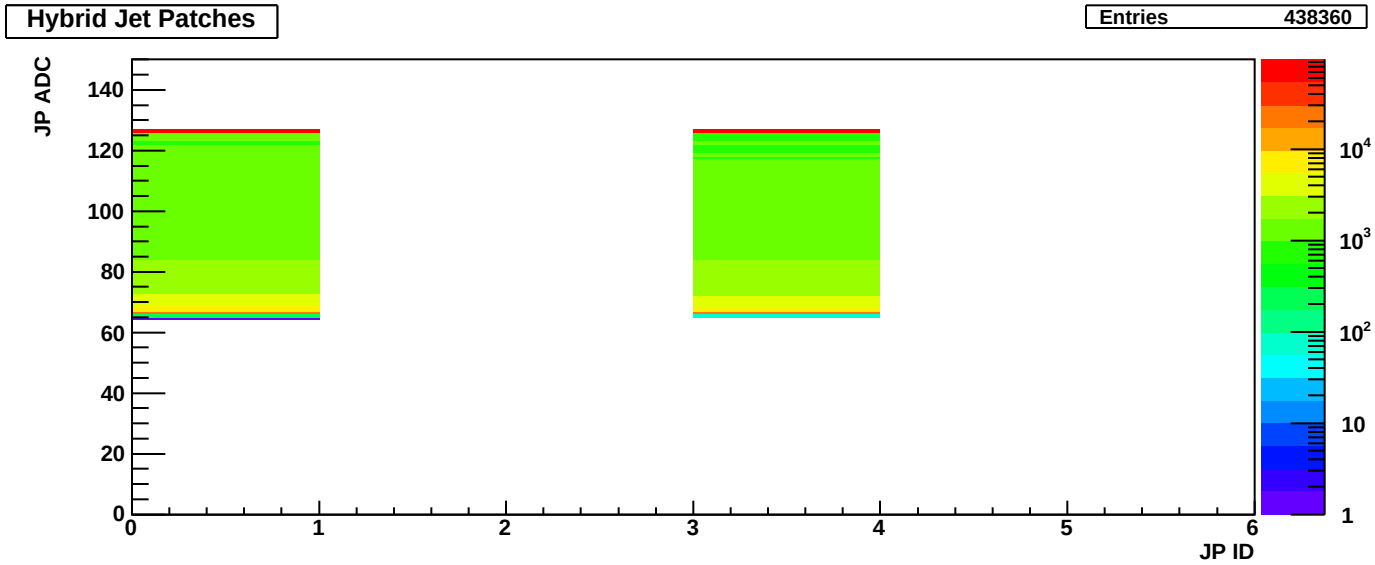

Barrel EMC L0 Input - High Tower
Entries 6.5754e+07
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

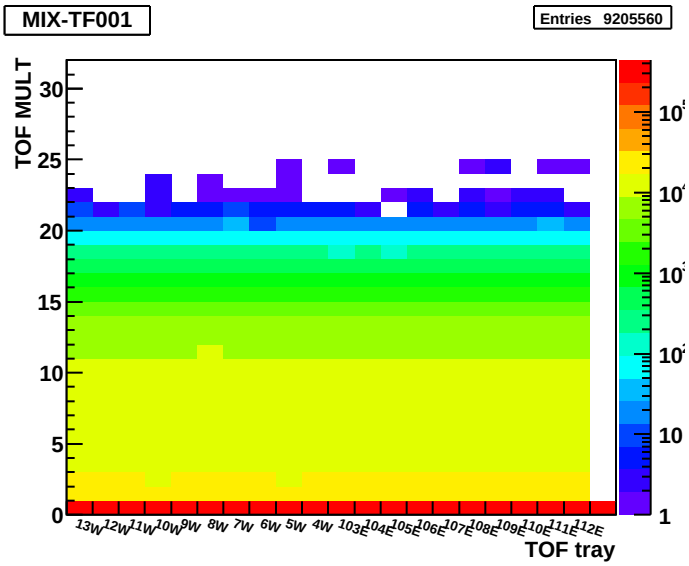

Barrel EMC L0 Input - Patch Sum
Entries 6.5754e+07
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

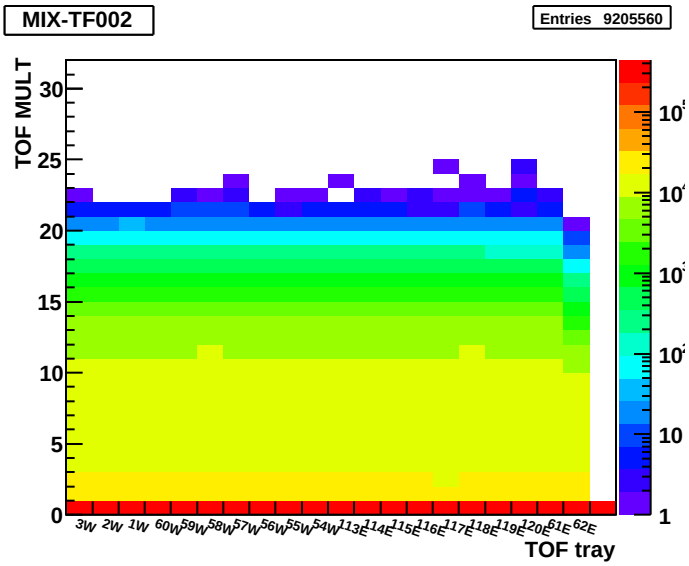

Endcap EMC L0 Input - High Tower
Entries 1.97262e+07
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

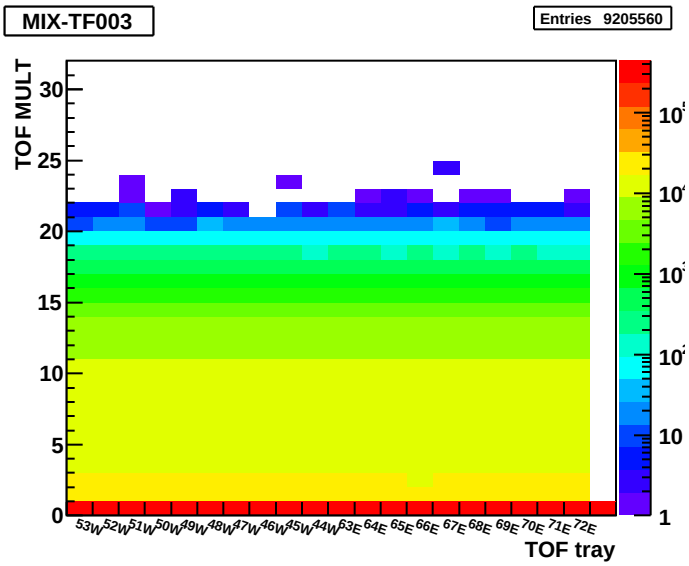

Endcap EMC L0 Input - Patch Sum
Entries 1.97262e+07
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

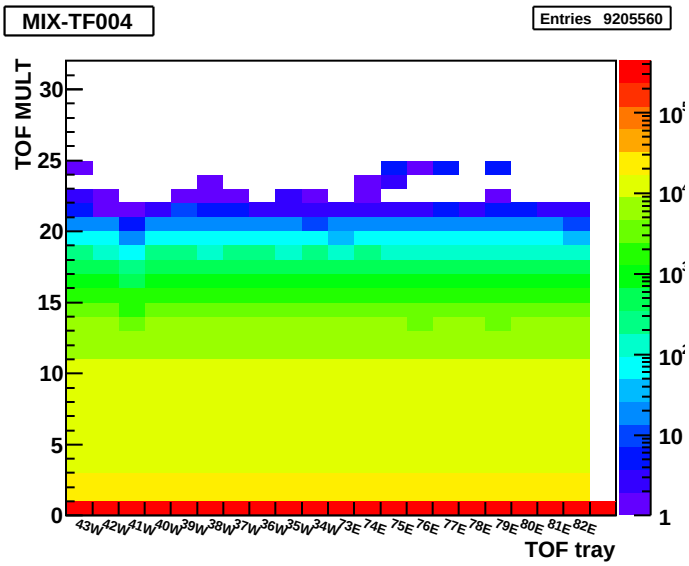

Barrel Jet Patches
Entries 3945240
JP ADC
JP ID

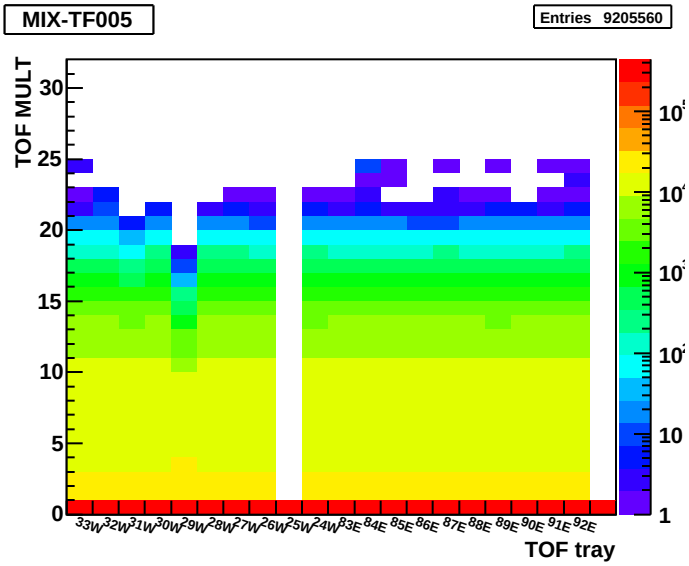

Hybrid Jet Patches
Entries 438360
JP ADC
JP ID

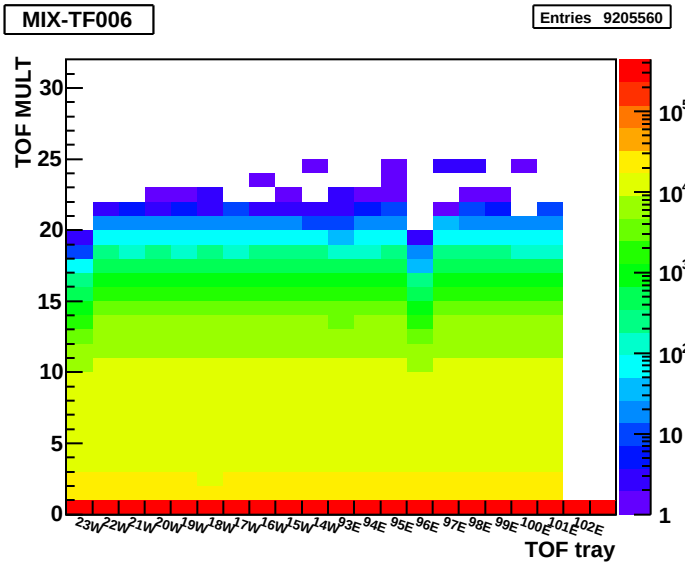

MIX-TF001
Entries 9205560
TOF MULT
TOF tray

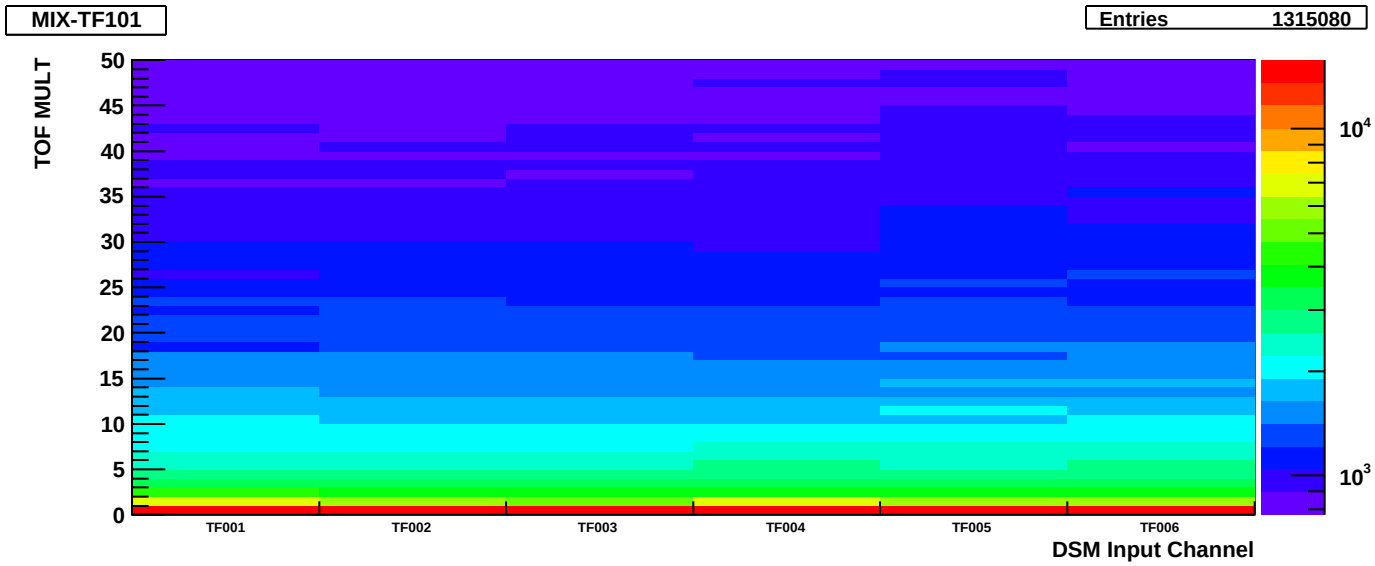

MIX-TF002
Entries 9205560
TOF MULT
TOF tray

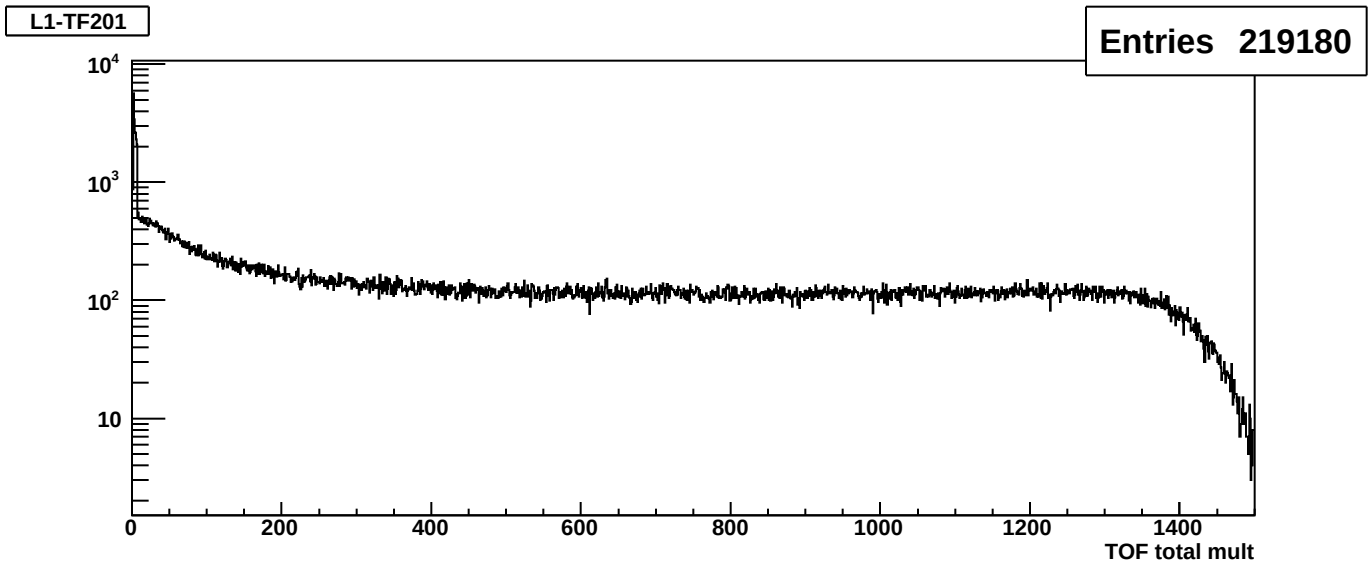

MIX-TF003
Entries 9205560
TOF MULT
TOF tray

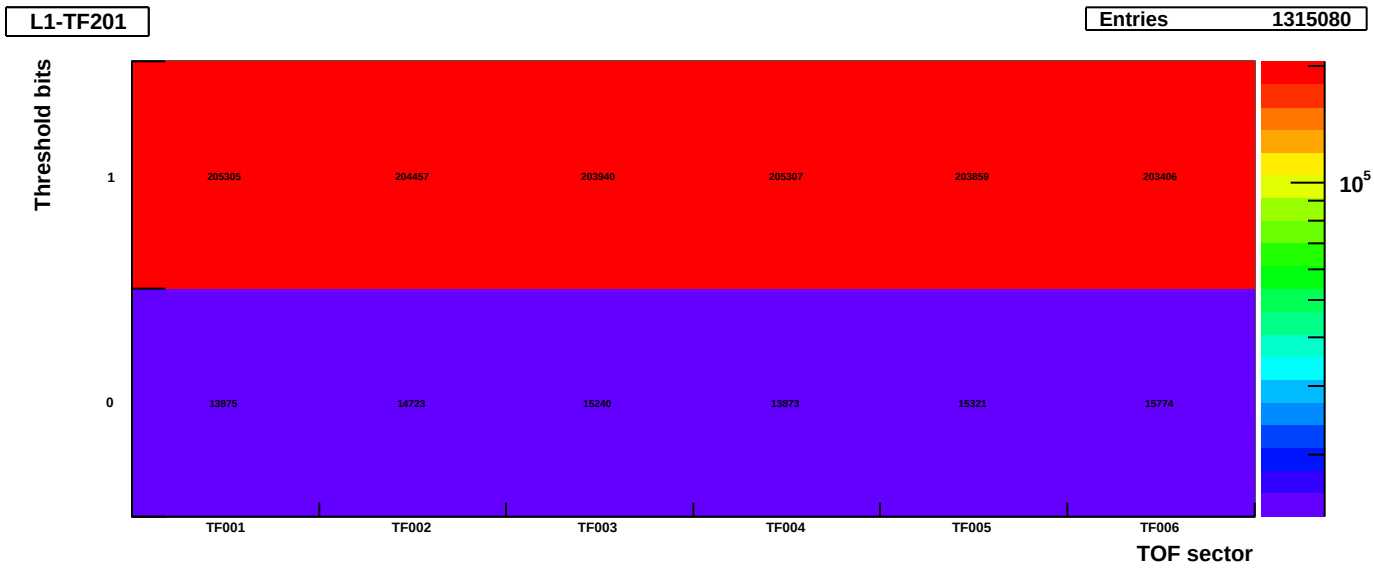

MIX-TF004
Entries 9205560
TOF MULT
TOF tray

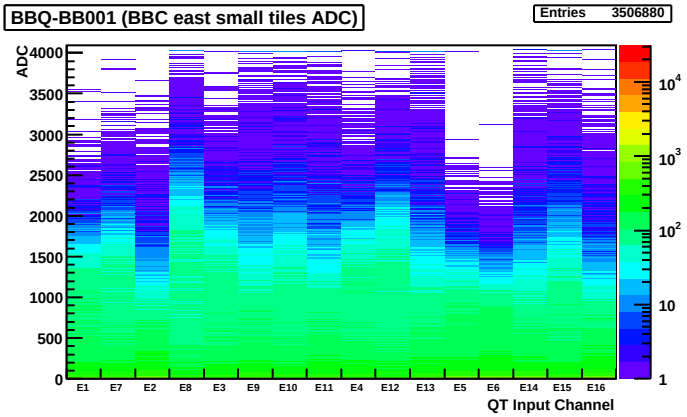

MIX-TF005
Entries 9205560
TOF MULT
TOF tray

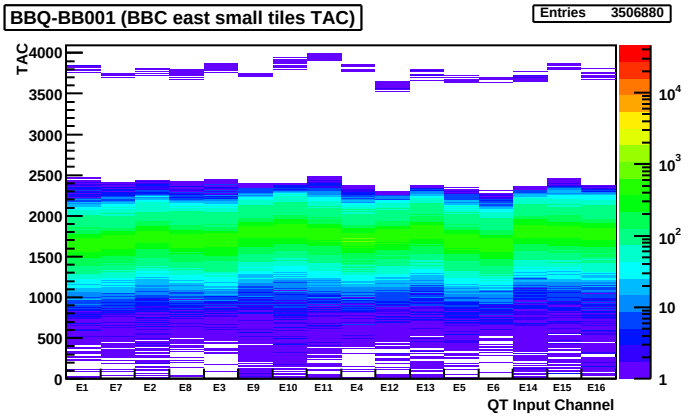

MIX-TF006
Entries 9205560
TOF MULT
TOF tray

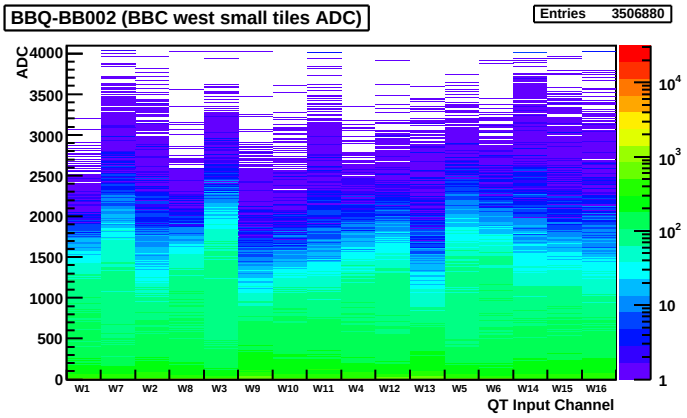

MIX-TF101
Entries 1315080
TOF MULT
50
45
40
35
30
25
20
15
10
5
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^4
10^3

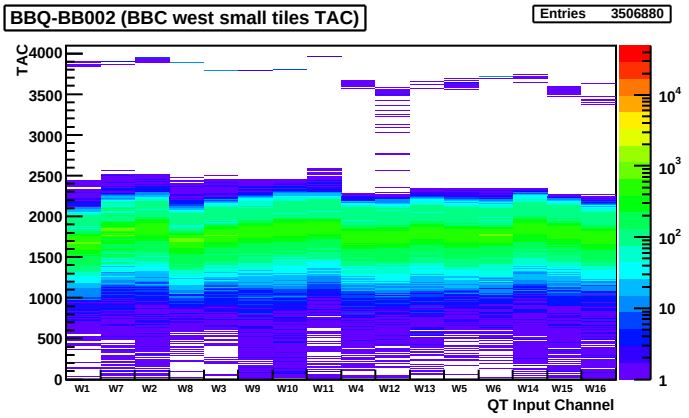

L1-TF201
Entries 219180
10^4
10^3
10^2
10
0
200
400
600
800
1000
1200
1400
TOF total mult

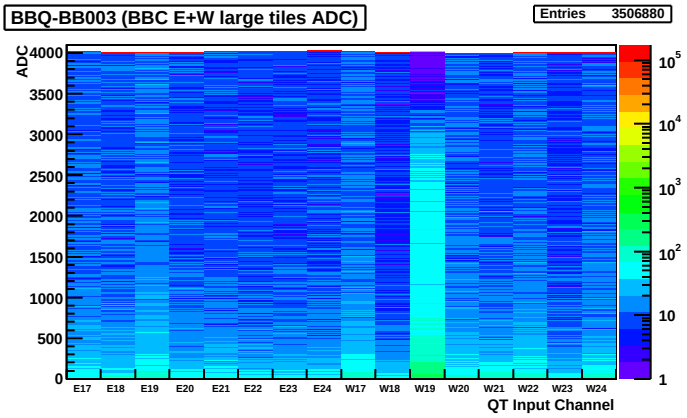

L1-TF201
Entries 1315080
Threshold bits
1
0
205305
204457
203940
205307
203859
203406
13875
14723
15240
13873
15321
15774
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector
10^5

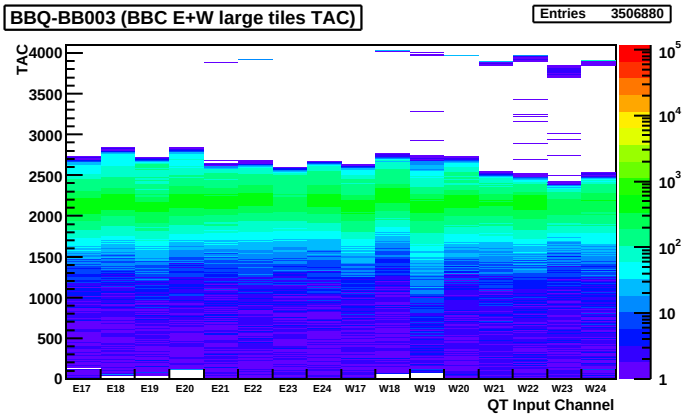

BBQ-BB001 (BBC east small tiles ADC)
Entries 3506880
ADC
QT Input Channel

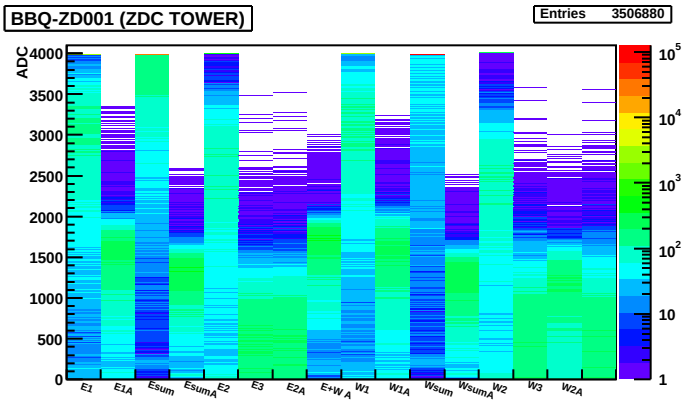

BBQ-BB001 (BBC east small tiles TAC)
Entries 3506880
TAC
QT Input Channel

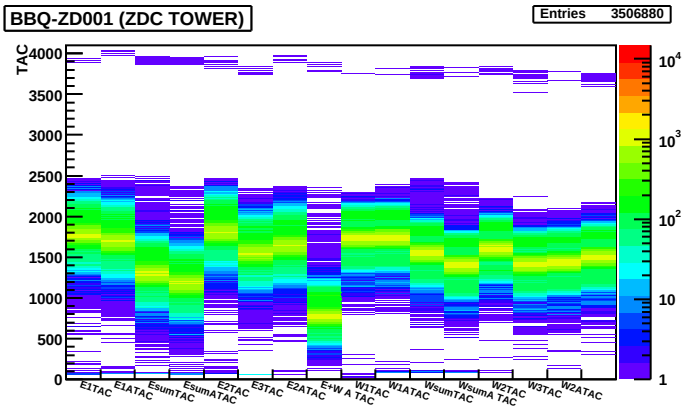

BBQ-BB002 (BBC west small tiles ADC)
Entries 3506880
ADC
QT Input Channel

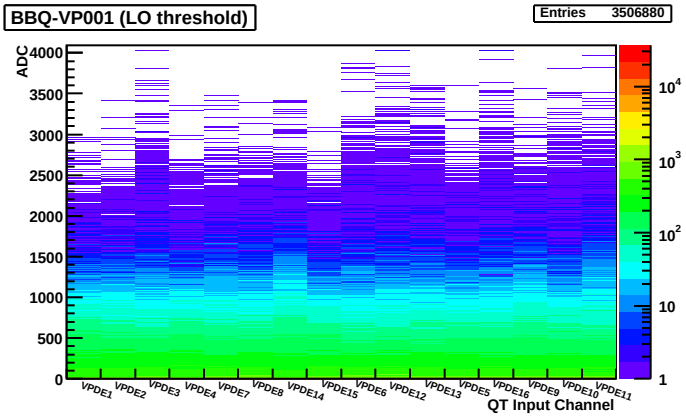

BBQ-BB002 (BBC west small tiles TAC)
Entries 3506880
TAC
QT Input Channel

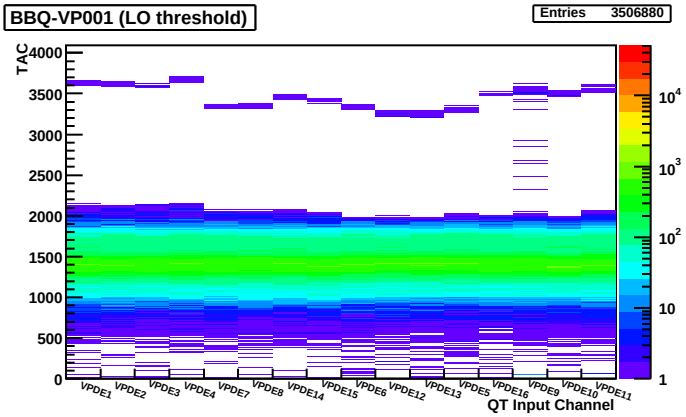

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 3506880
ADC
QT Input Channel

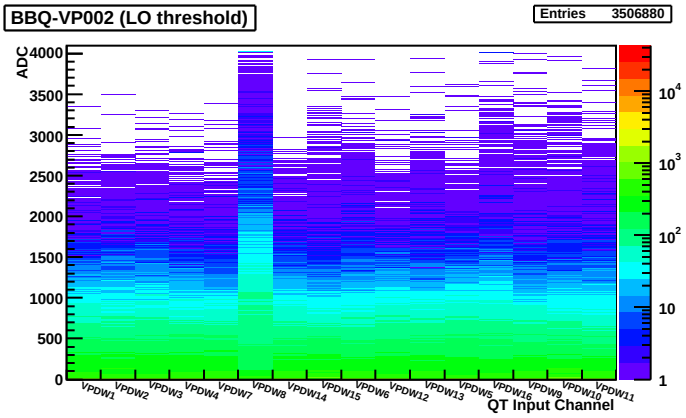

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 3506880
TAC
QT Input Channel

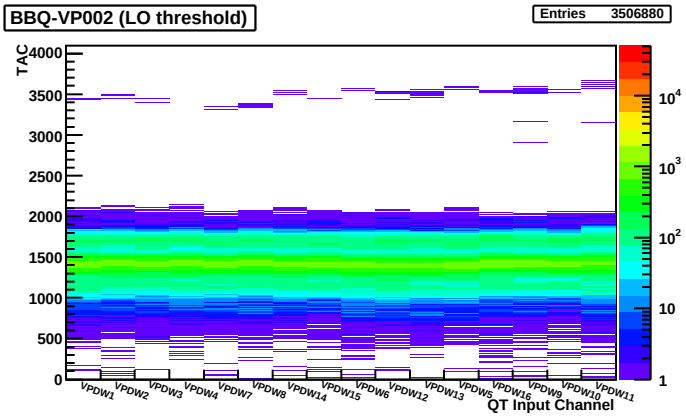

BBQ-ZD001 (ZDC TOWER)
Entries 3506880
ADC

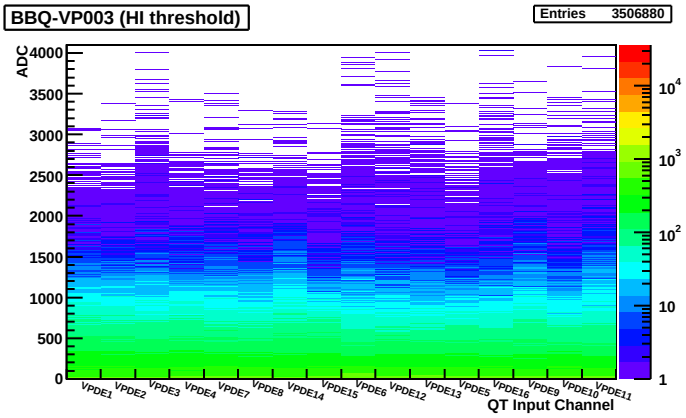

BBQ-ZD001 (ZDC TOWER)
Entries 3506880
TAC

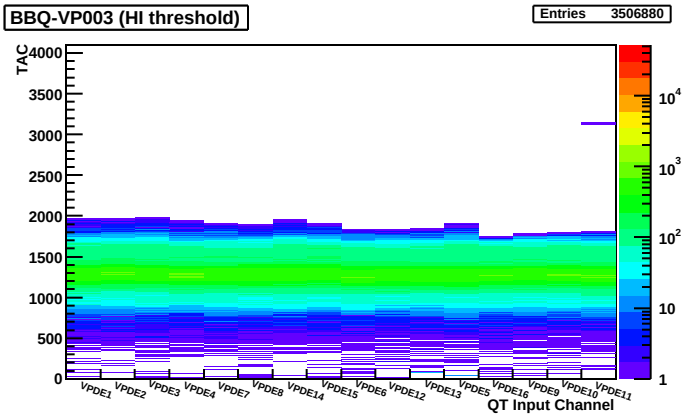

BBQ-VP001 (LO threshold)
Entries 3506880
ADC
QT Input Channel

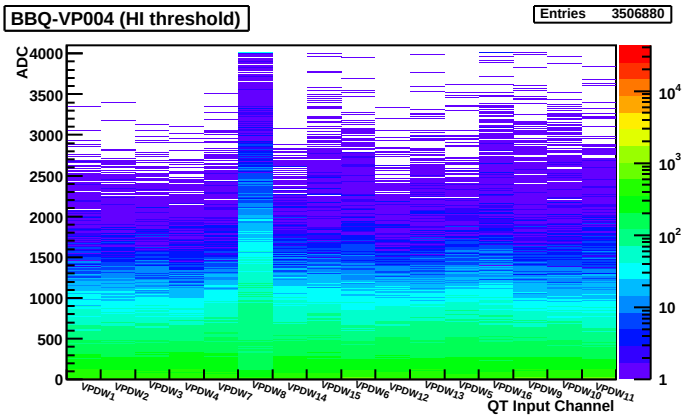

BBQ-VP001 (LO threshold)
Entries 3506880
TAC
QT Input Channel

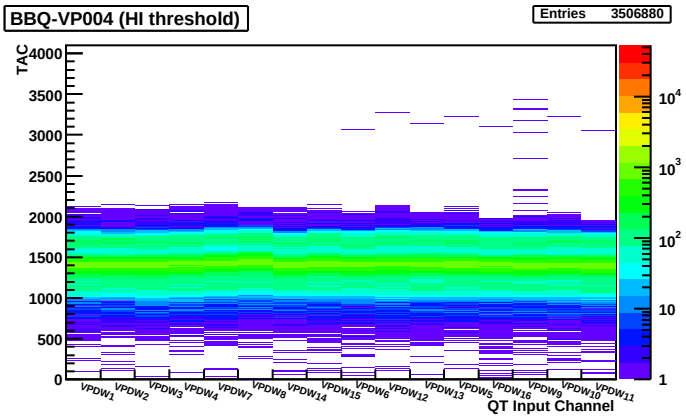

BBQ-VP002 (LO threshold)
Entries 3506880
ADC
QT Input Channel

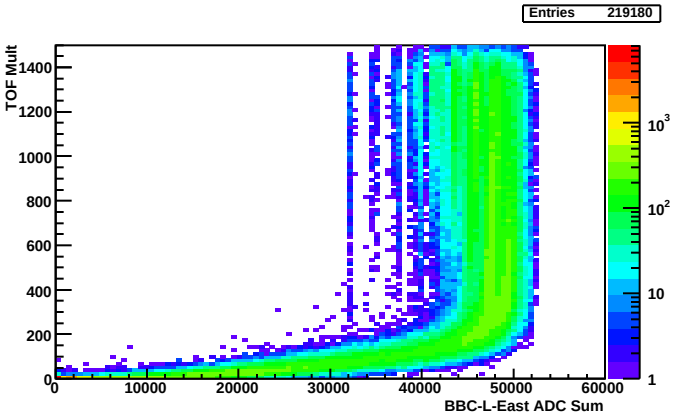

BBQ-VP002 (LO threshold)
Entries 3506880
TAC
QT Input Channel

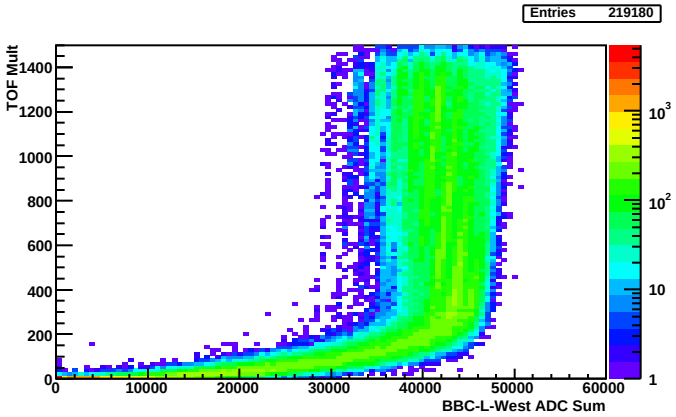

BBQ-VP003 (HI threshold)
Entries 3506880
ADC
QT Input Channel

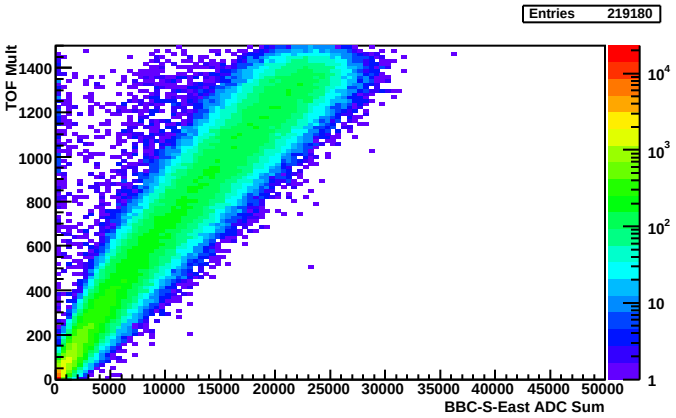

BBQ-VP003 (HI threshold)
Entries 3506880
TAC
QT Input Channel

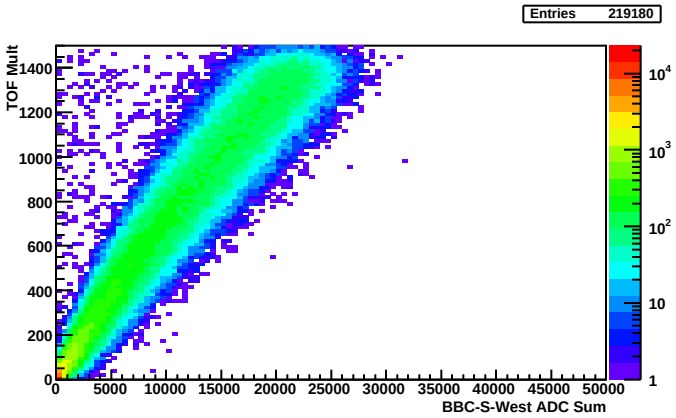

BBQ-VP004 (HI threshold)
Entries 3506880
ADC
QT Input Channel

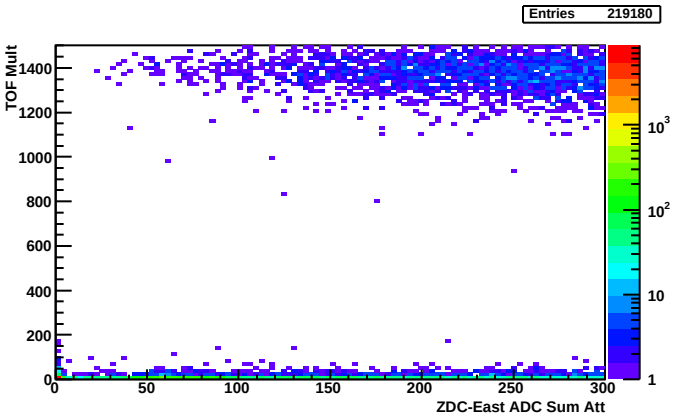

BBQ-VP004 (HI threshold)
Entries 3506880
TAC
QT Input Channel

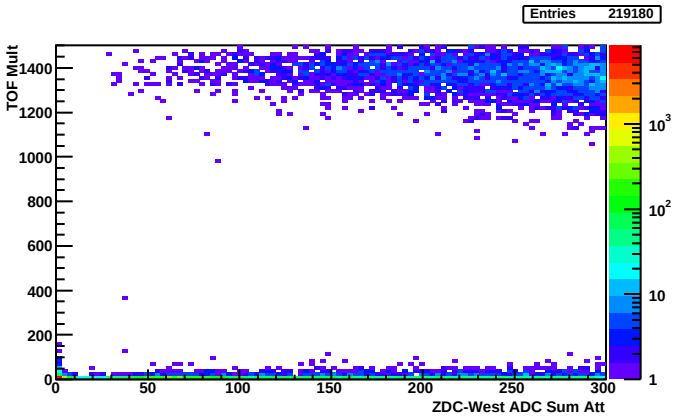

Entries 219180
TOF Mult
BBC-L-East ADC Sum

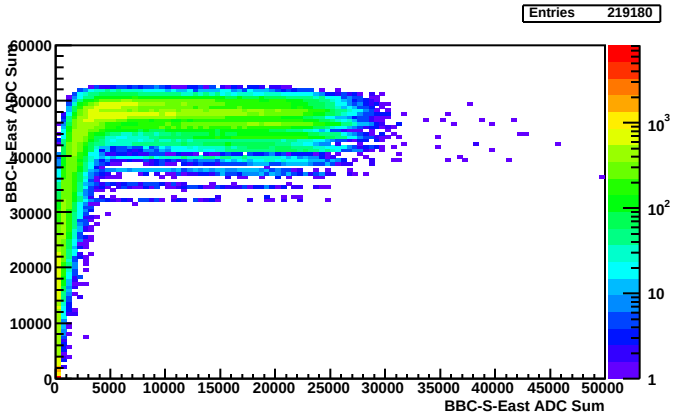

Entries 219180
TOF Mult
BBC-L-West ADC Sum

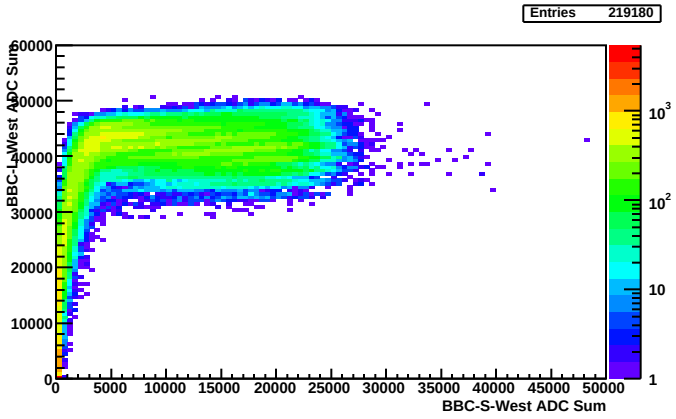

Entries 219180
TOF Mult
BBC-S-East ADC Sum

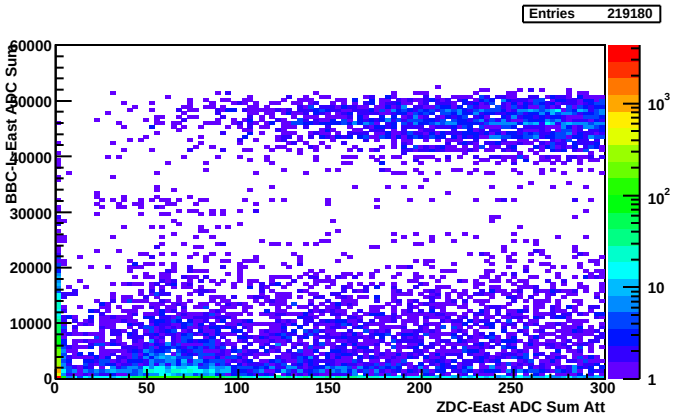

Entries 219180
TOF Mult
BBC-S-West ADC Sum

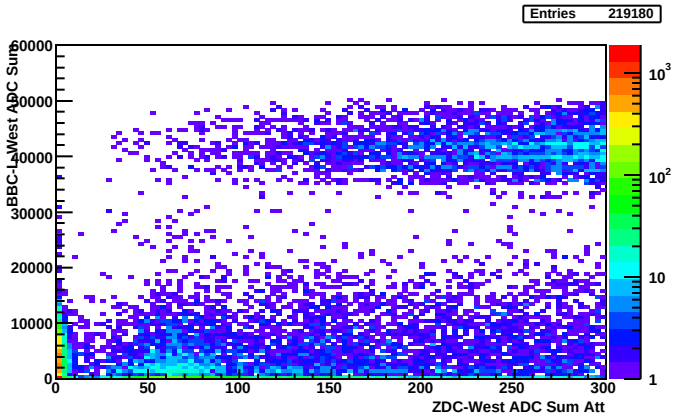

Entries 219180
TOF Mult
ZDC-East ADC Sum Att


Entries 219180
TOF Mult
ZDC-West ADC Sum Att


Entries 219180
BBC-L-East ADC Sum
BBC-S-East ADC Sum


Entries 219180
BBC-L-West ADC Sum
BBC-S-West ADC Sum


Entries 219180
BBC-L-East ADC Sum
ZDC-East ADC Sum Att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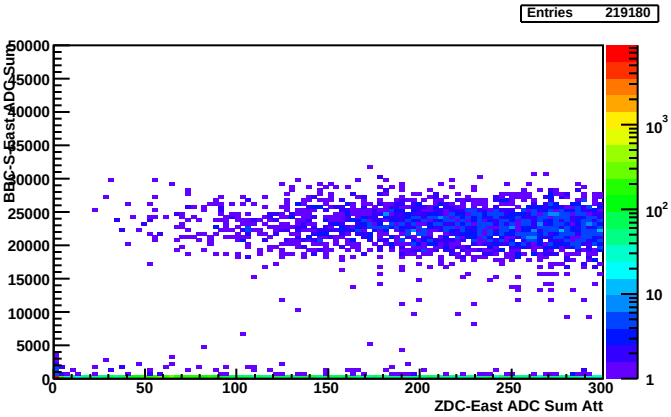
BBC-L-West ADC Sum
ZDC-West ADC Sum Att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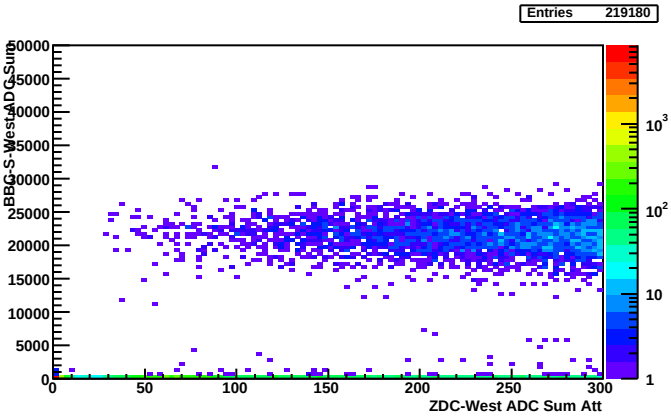
BBC-S-East ADC Sum
ZDC-East ADC Sum Att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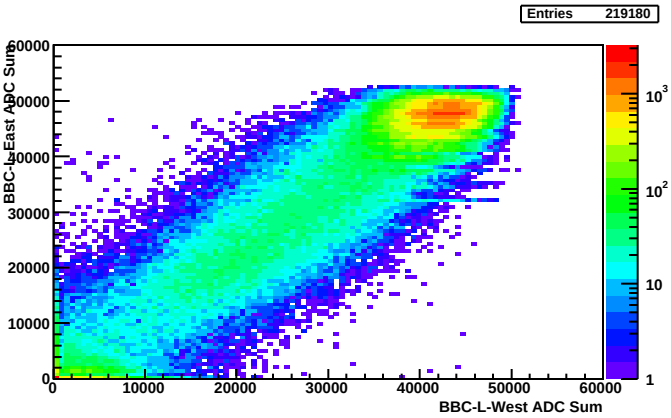
BBC-S-West ADC Sum
ZDC-West ADC Sum Att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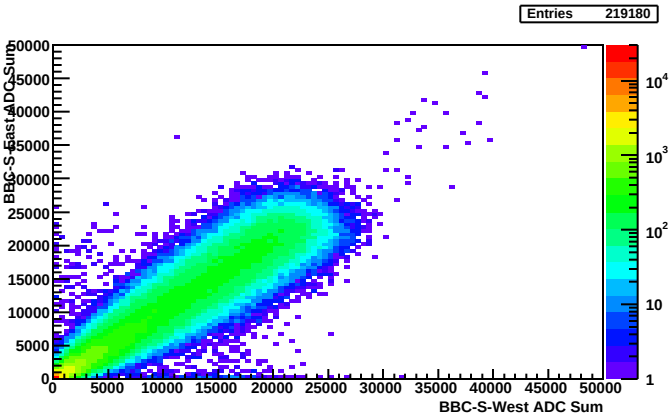
BBC-L-East ADC Sum
BBC-L-West ADC Sum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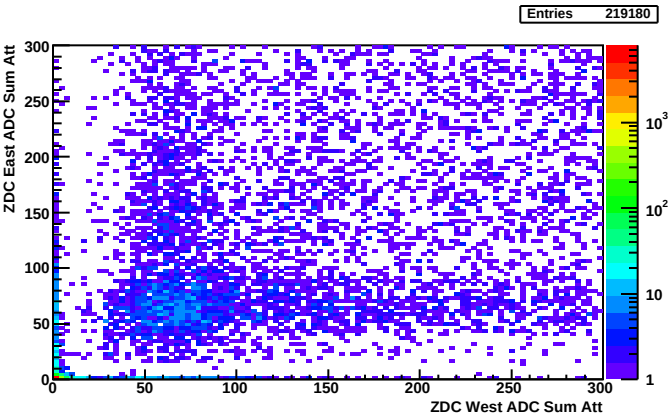
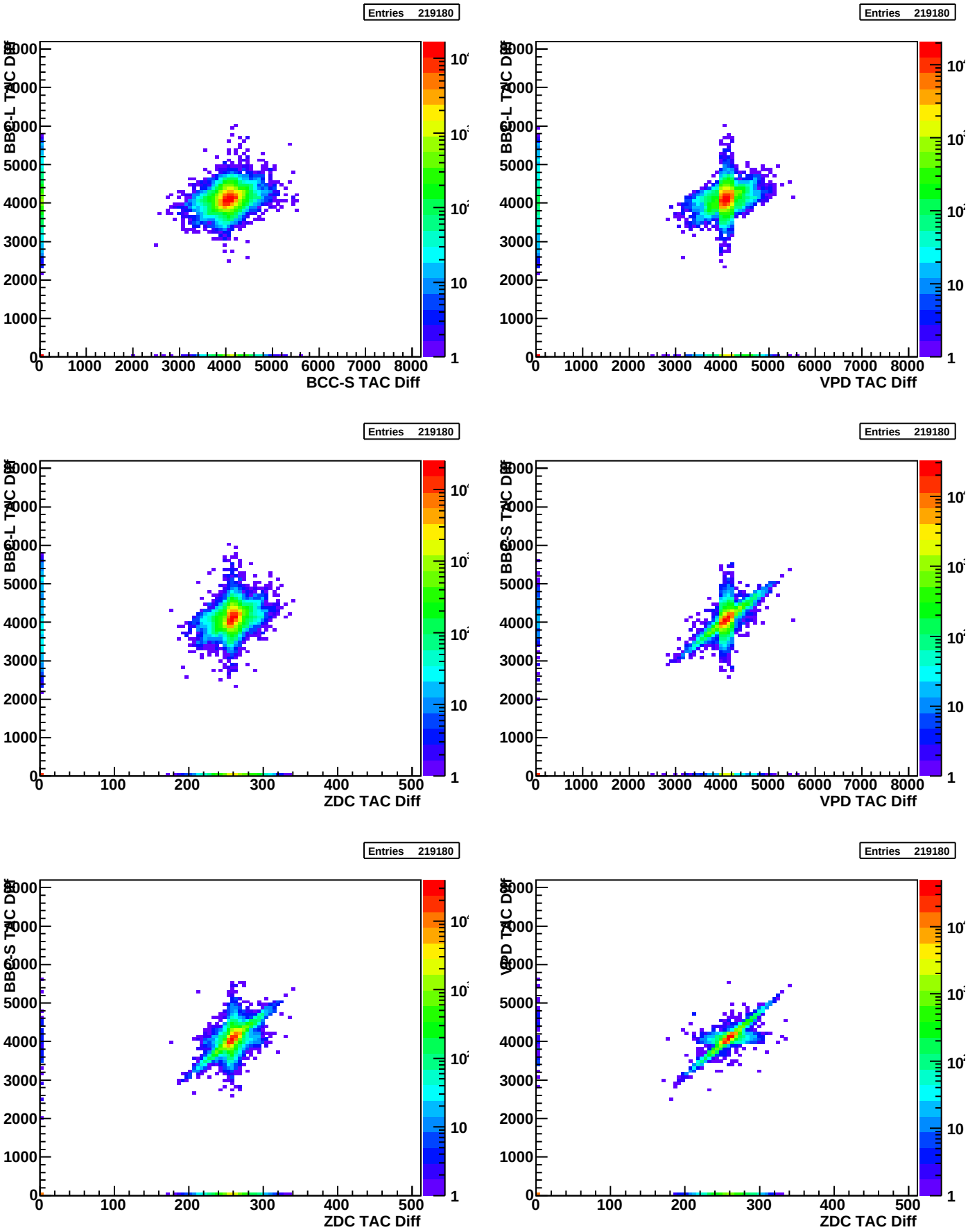
BBC-S-East ADC Sum
BBC-S-West ADC Sum


Entries 219180
ZDC East ADC Sum Att
ZDC West ADC Sum Att


Entries 219180
BBC-L TAC Diff
BCC-S TAC Diff
Entries 219180
BBC-L TAC Diff
VPD TAC Diff
Entries 219180
BBC-L TAC Diff
ZDC TAC Diff
Entries 219180
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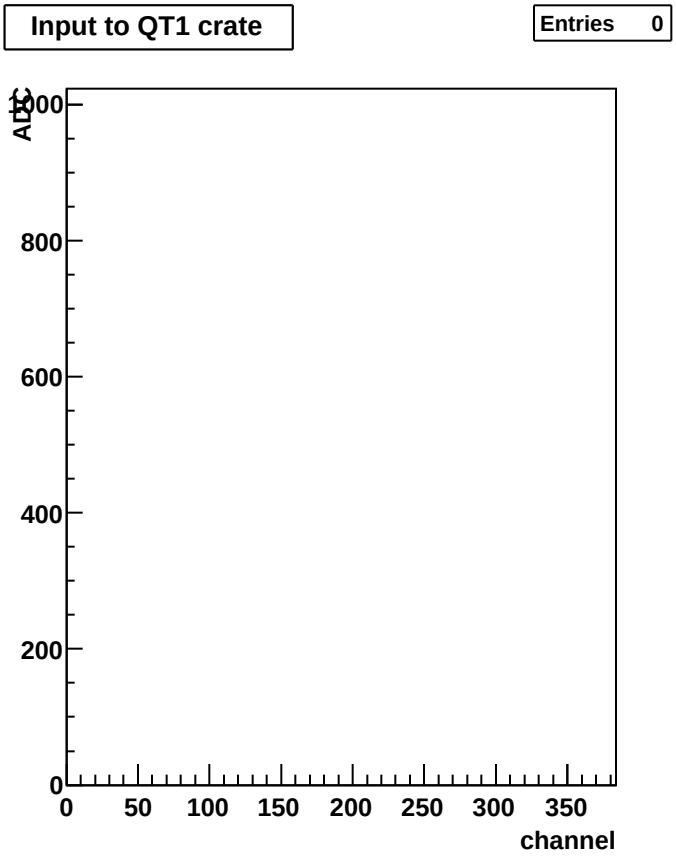
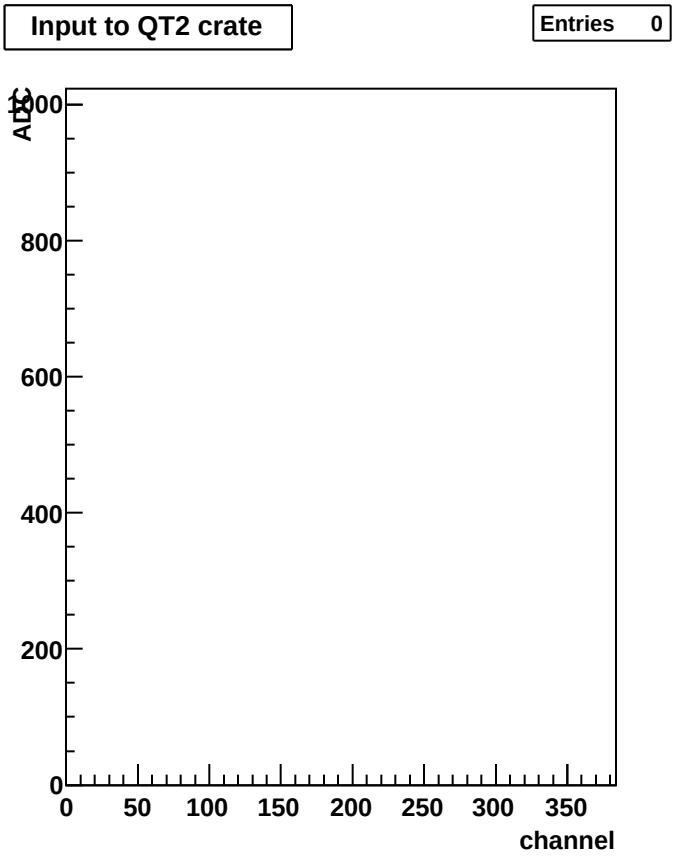
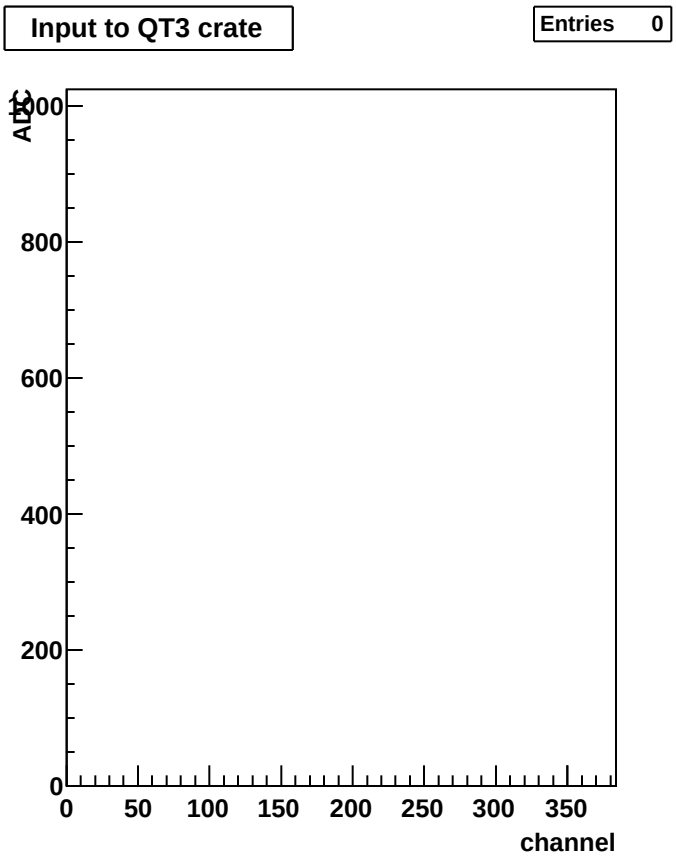
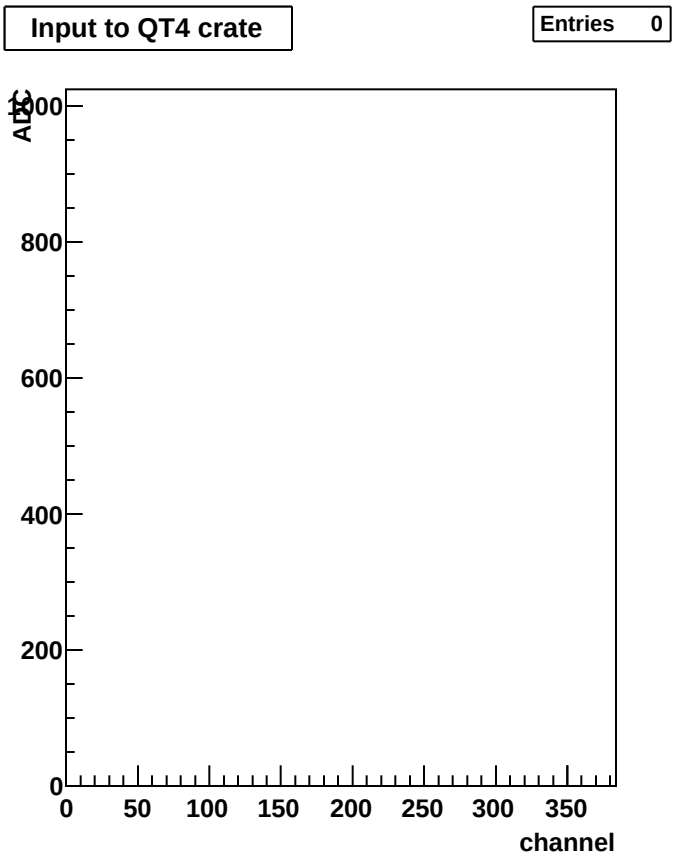
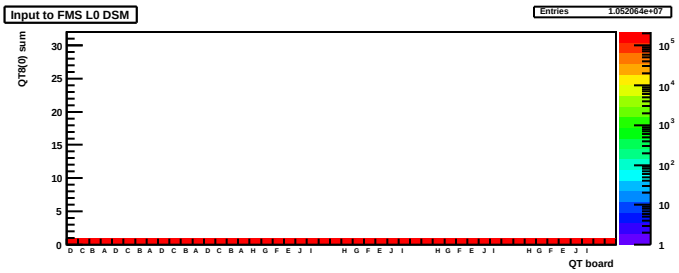
VPD TAC Diff
Entries 219180
BBC-S TAC Diff
ZDC TAC Diff
Entries 219180
VPD TAC Diff
ZDC TAC Diff

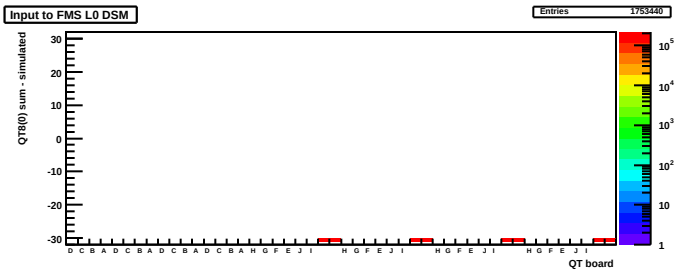

Input to QT1 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

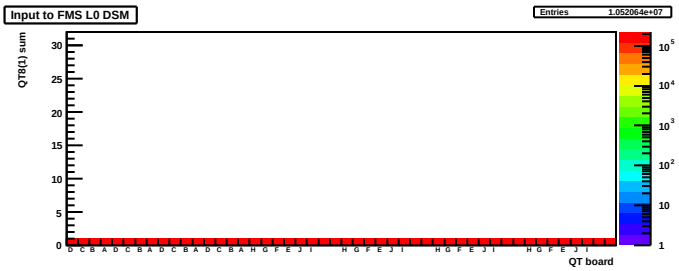

Input to QT2 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

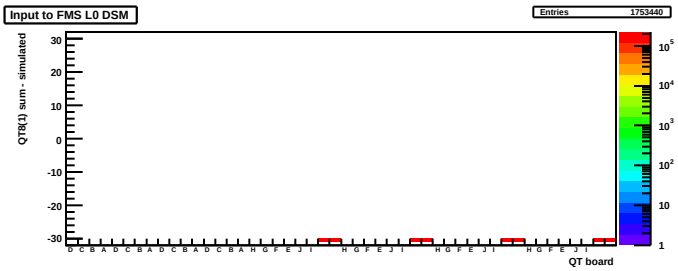

Input to QT3 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

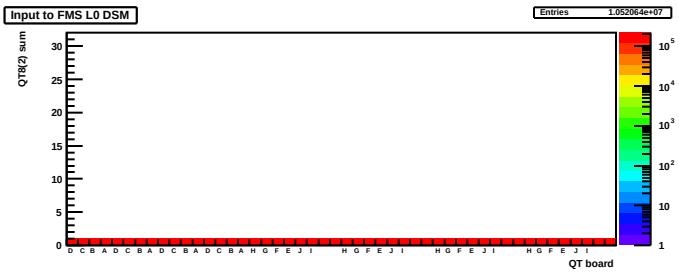

Input to QT4 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

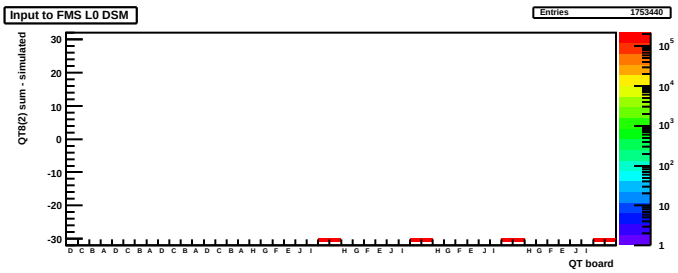

Input to FMS L0 DSM
Entries 1.052064e+07
QT8(0) sum
QT board

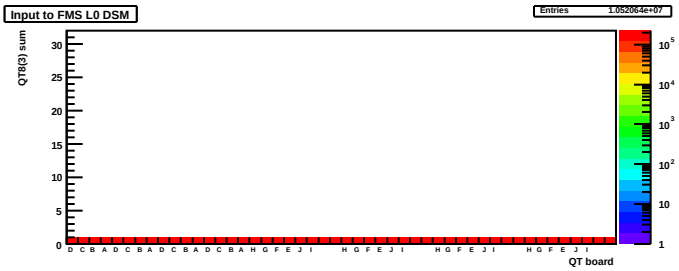

Input to FMS L0 DSM
Entries 1753440
QT8(0) sum - simulated
QT board

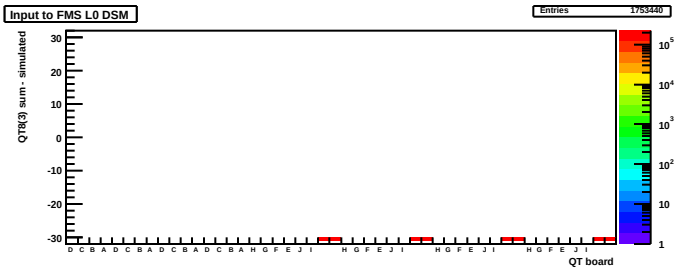

Input to FMS L0 DSM
Entries 1.052064e+07
QT8(1) sum
QT board

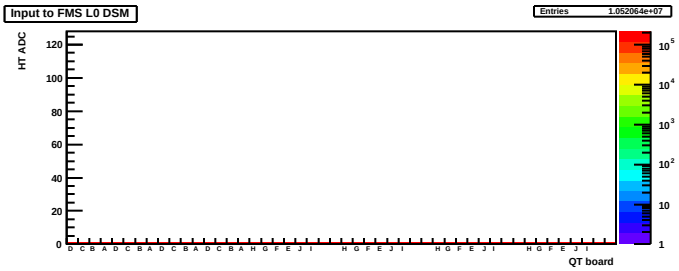

Input to FMS L0 DSM
Entries 1753440
QT8(1) sum - simulated
QT board

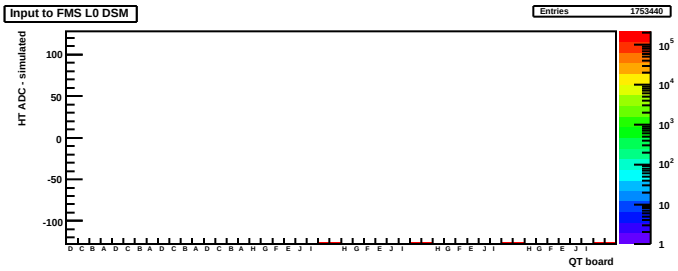

Input to FMS L0 DSM
Entries 1.052064e+07
QT8(2) sum
QT board

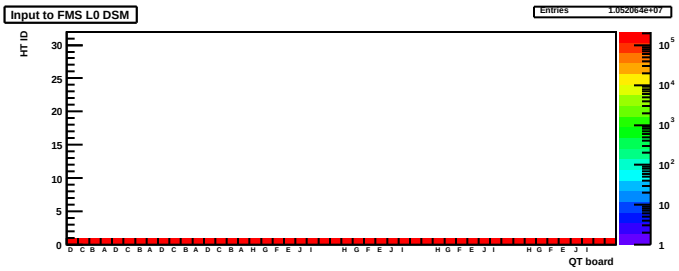

Input to FMS L0 DSM
Entries 1753440
QT8(2) sum - simulated
QT board

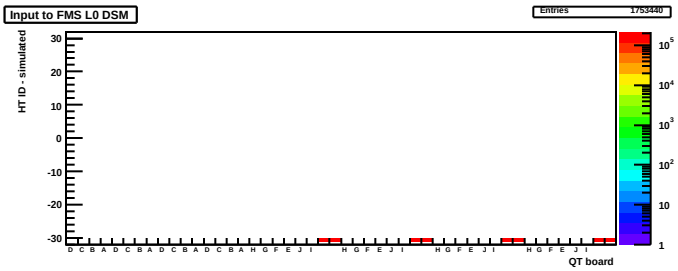

Input to FMS L0 DSM
Entries 1.052064e+07
QT8(3) sum
QT board

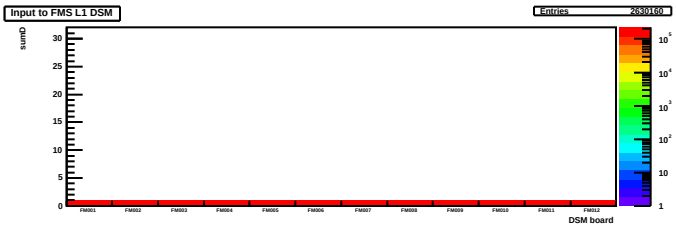

Input to FMS L0 DSM
Entries 1753440
QT8(3) sum - simulated
QT board

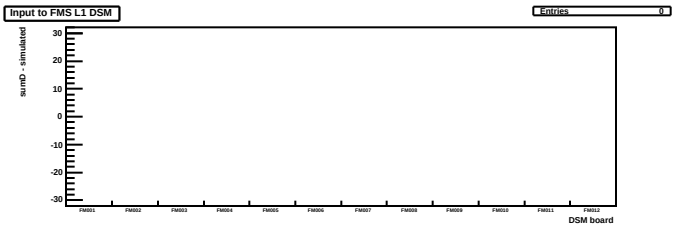

Input to FMS L0 DSM
Entries 1.052064e+07
HT ADC
QT board

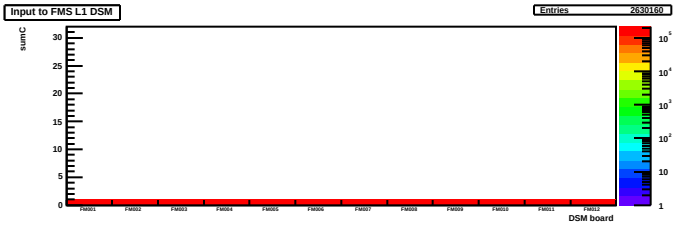

Input to FMS L0 DSM
Entries 1753440
HT ADC - simulated
QT board

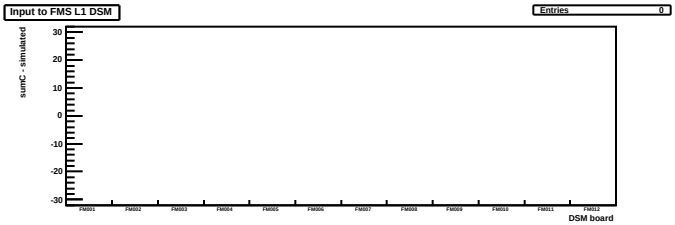

Input to FMS L0 DSM
Entries 1.052064e+07
HT ID
QT board

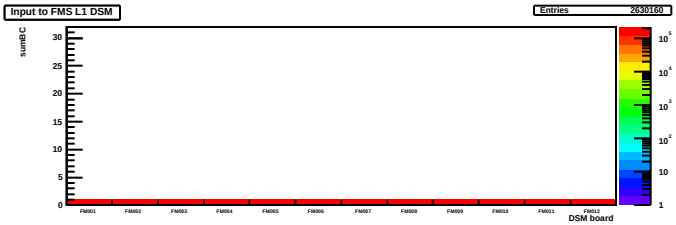

Input to FMS L0 DSM
Entries 1753440
HT ID - simulated
QT board

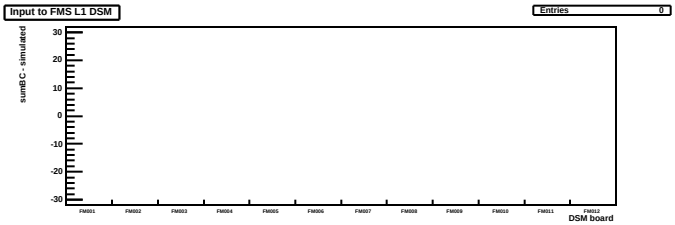

Input to FMS L1 DSM
Entries 2630160
sumD
DSM board

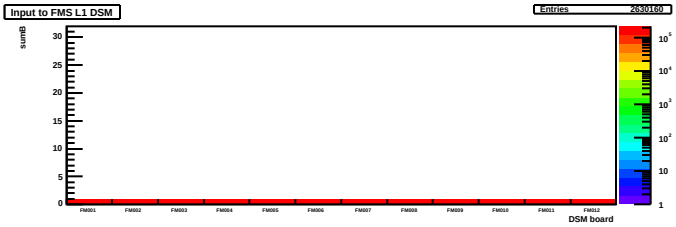

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

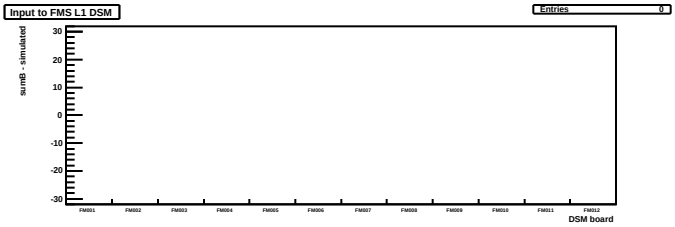

Input to FMS L1 DSM
Entries 2630160
sumC
DSM board

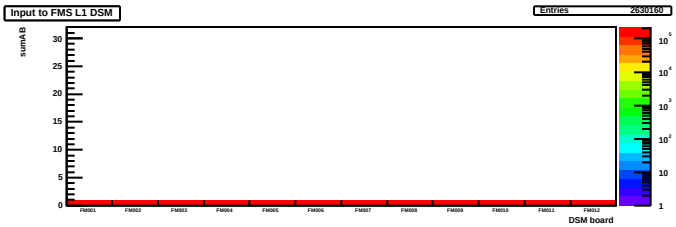

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

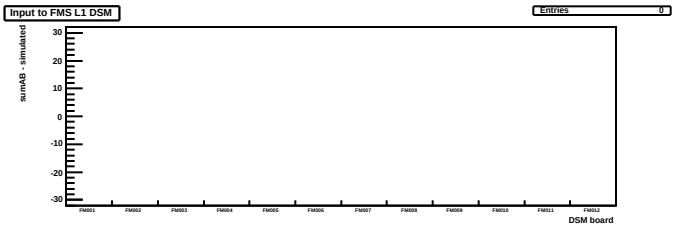

Input to FMS L1 DSM
Entries 2630160
sumBC
DSM board

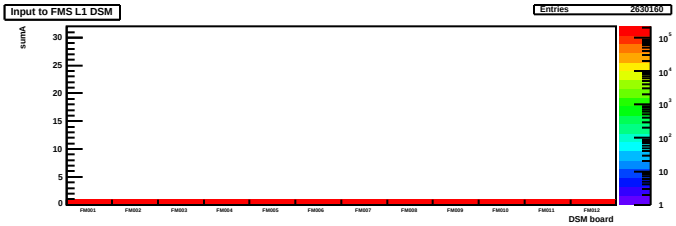

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

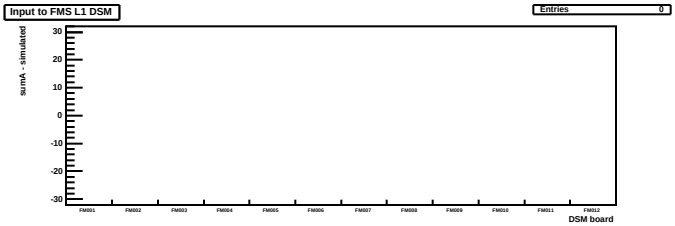

Input to FMS L1 DSM
Entries 2630160
sumB
DSM board

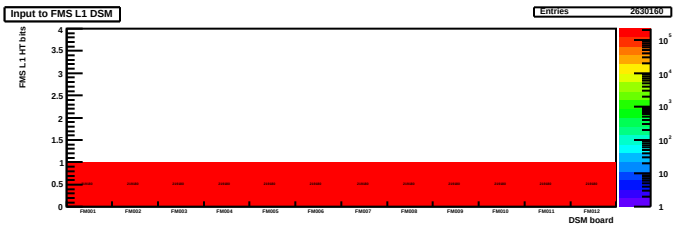

Input to FMS L1 DSM
Entries 0
sumB - simulated
DSM board

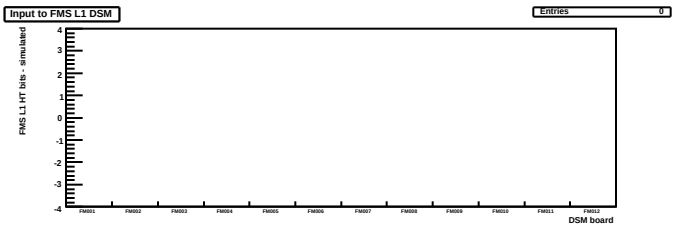

Input to FMS L1 DSM
Entries 2630160
sumAB
DSM board

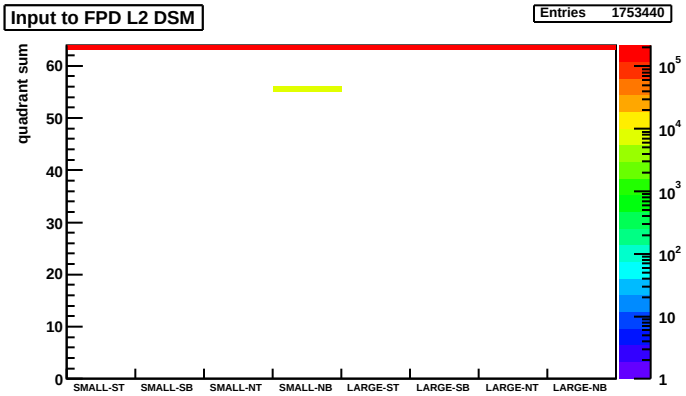

Input to FMS L1 DSM
Entries 0
sumAB - simulated
DSM board

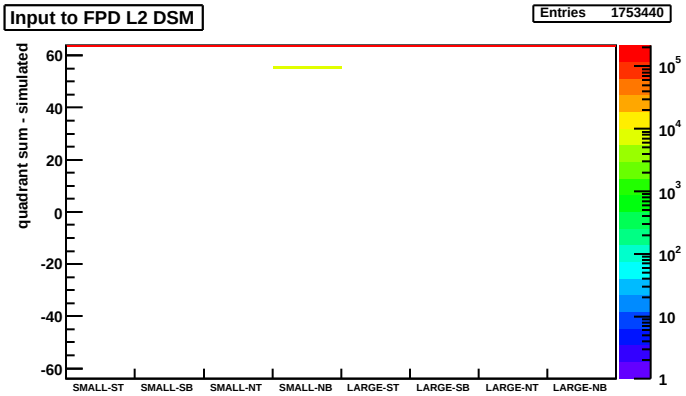

Input to FMS L1 DSM
Entries 2630160
sumA
DSM board

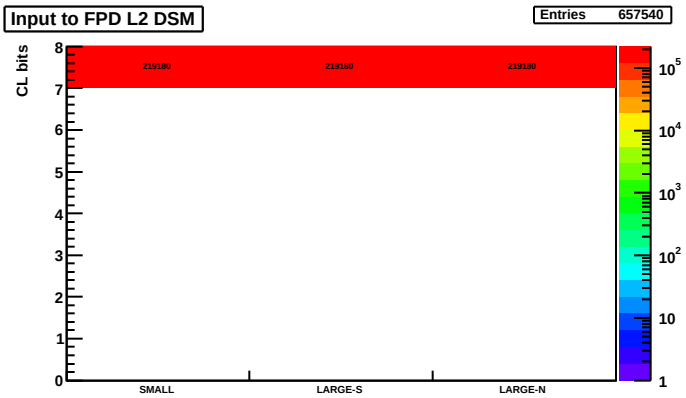

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

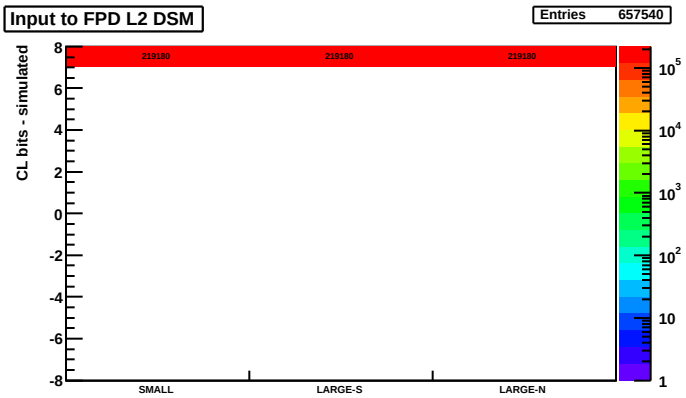

Input to FMS L1 DSM
Entries 2630160
FMS L1 HT bits
DSM board

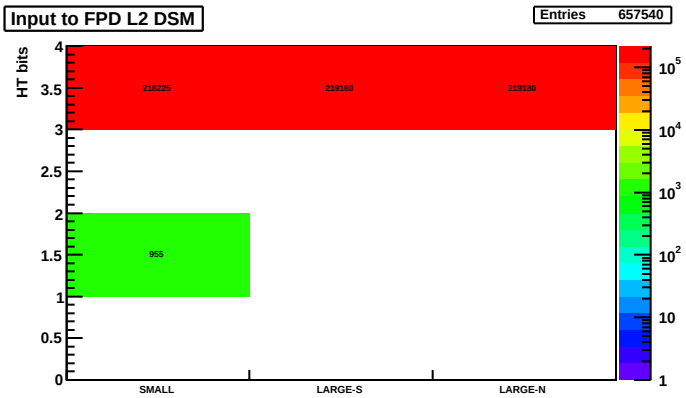

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

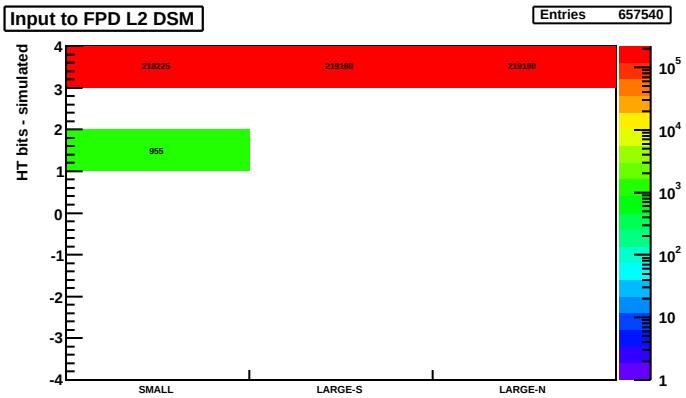

Input to FPD L2 DSM
Entries 1753440
quadrant sum
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

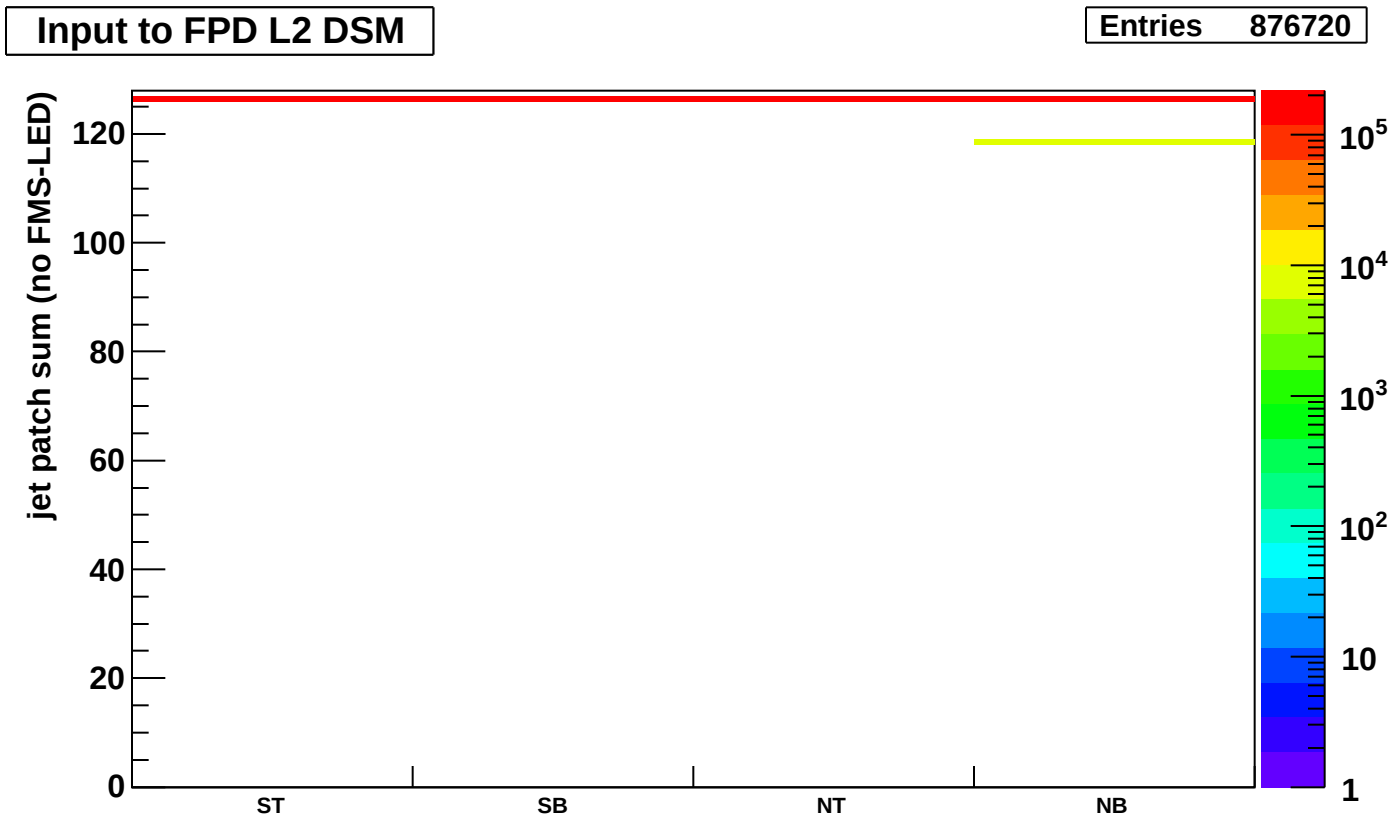

Input to FPD L2 DSM
Entries 1753440
quadrant sum - simulated
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

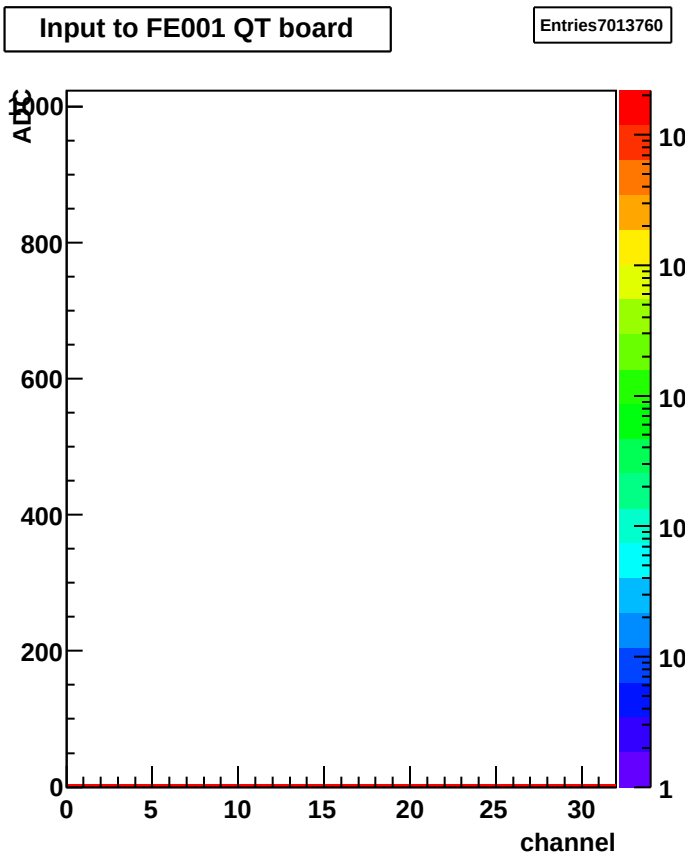

Input to FPD L2 DSM
Entries 657540
CL bits
219180
219180
219180
SMALL
LARGE-S
LARGE-N

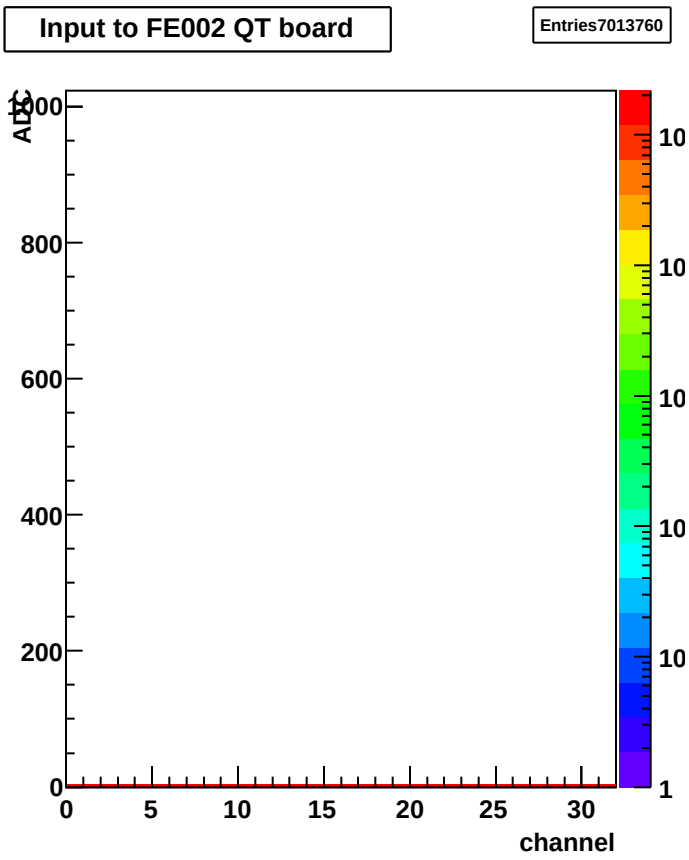

Input to FPD L2 DSM
Entries 657540
CL bits - simulated
219180
219180
219180
SMALL
LARGE-S
LARGE-N

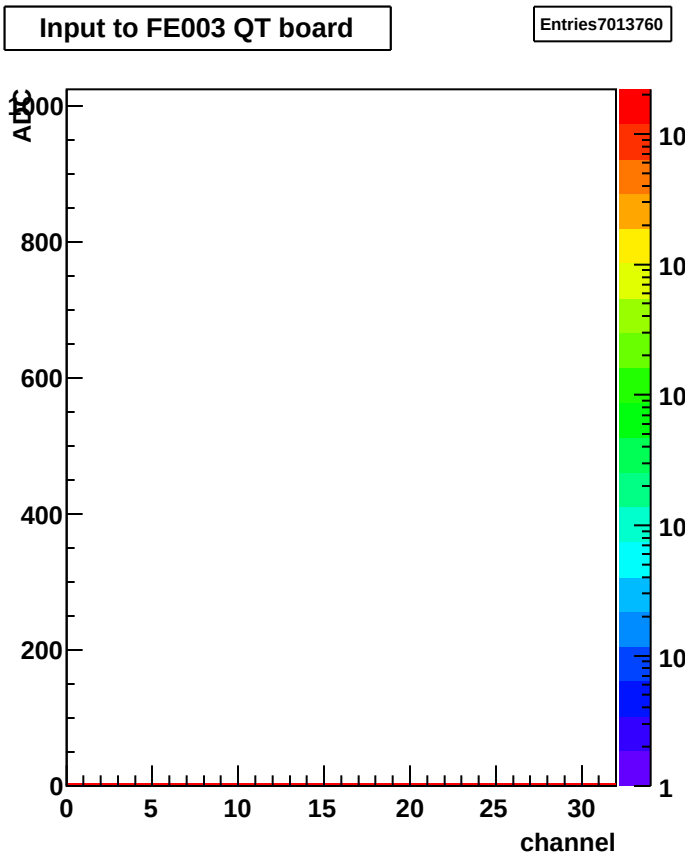

Input to FPD L2 DSM
Entries 657540
HT bits
218225
219180
219180
955
SMALL
LARGE-S
LARGE-N

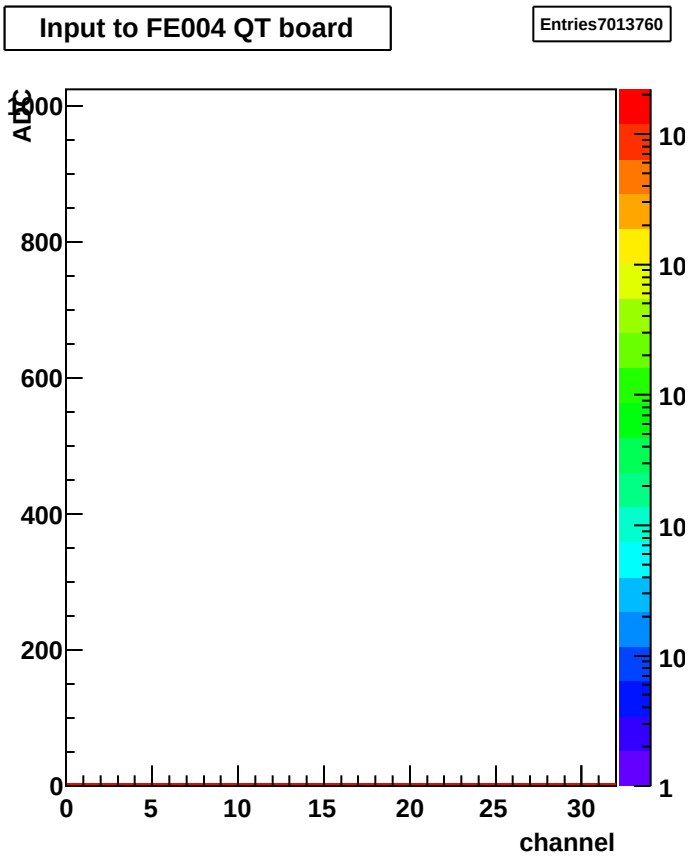

Input to FPD L2 DSM
Entries 657540
HT bits - simulated
218225
219180
219180
955
SMALL
LARGE-S
LARGE-N


Input to FPD L2 DSM
Entries 876720
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

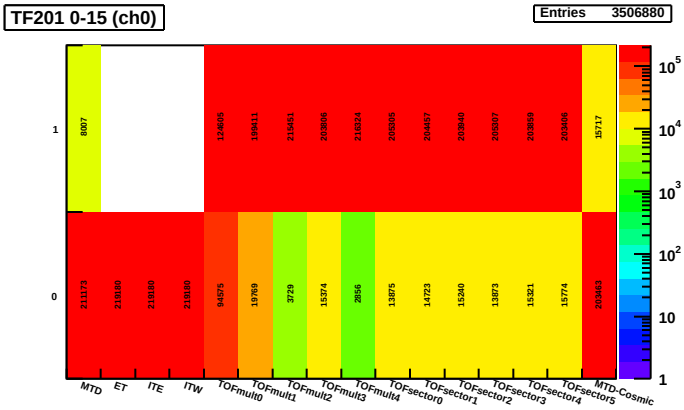

Input to FE001 QT board
Entries7013760
ADC
channel


Input to FE002 QT board
Entries7013760
ADC
channel

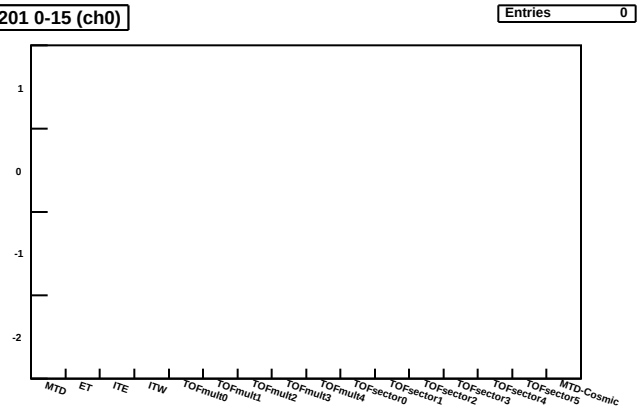

Input to FE003 QT board
Entries7013760
ADC
channel


Input to FE004 QT board
Entries7013760
ADC
channel

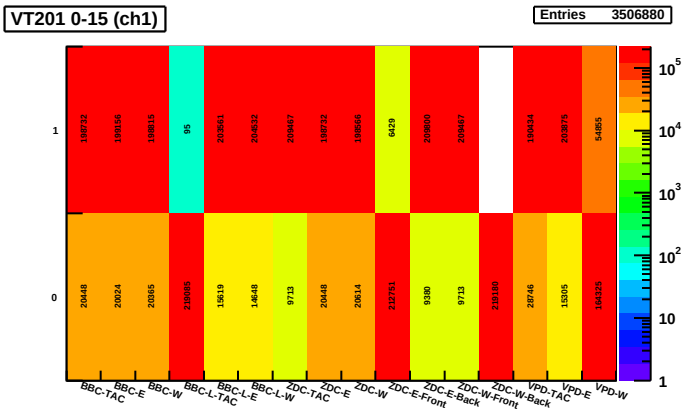
TF201 0-15 (ch0)



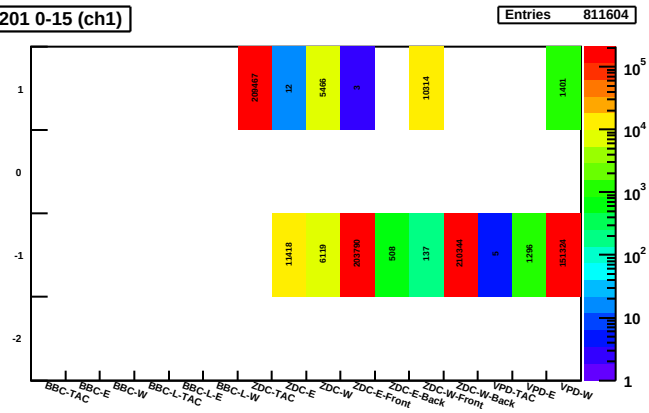
TF201 0-15 (ch0)



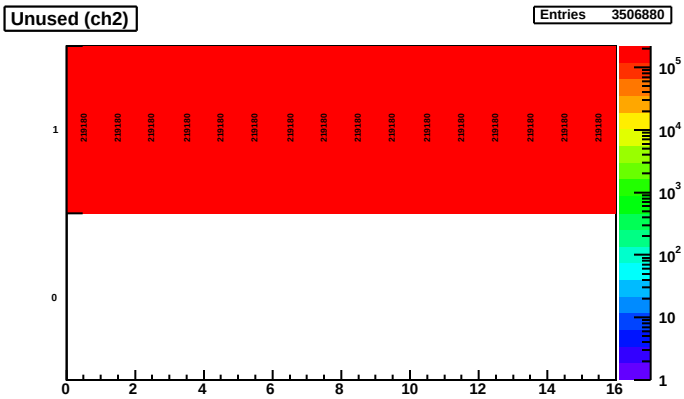
VT201 0-15 (ch1)

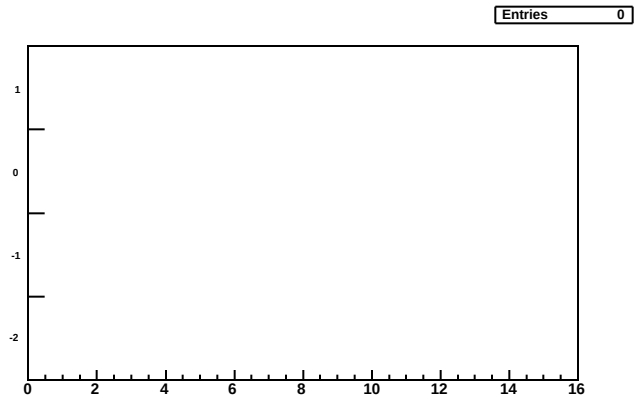


VT201 0-15 (ch1)

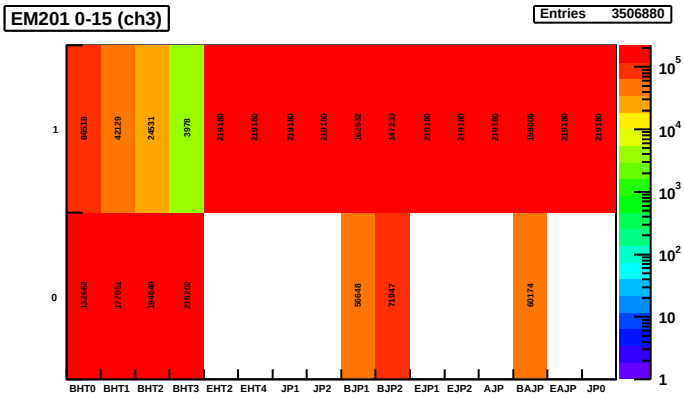


Unused (ch2)

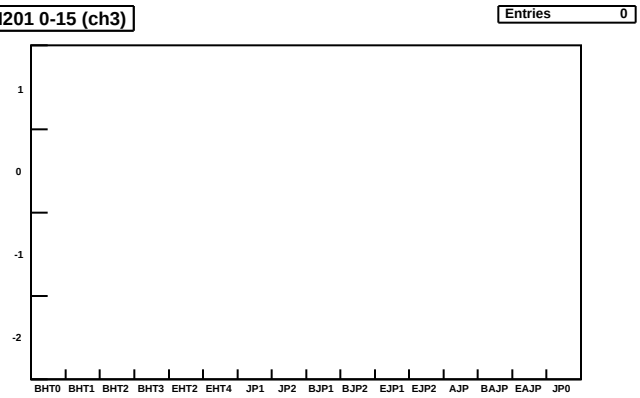




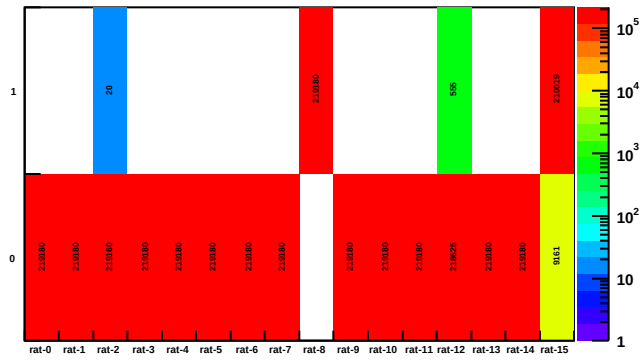
EM201 0-15 (ch3)

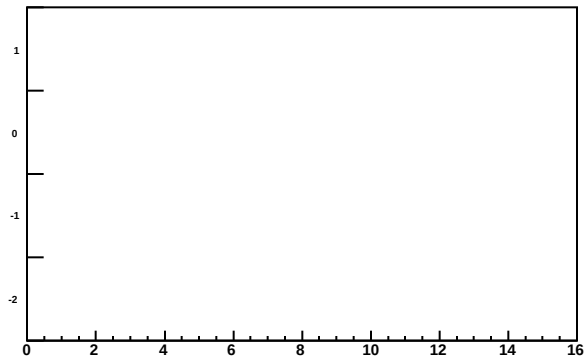


EM201 0-15 (ch3)

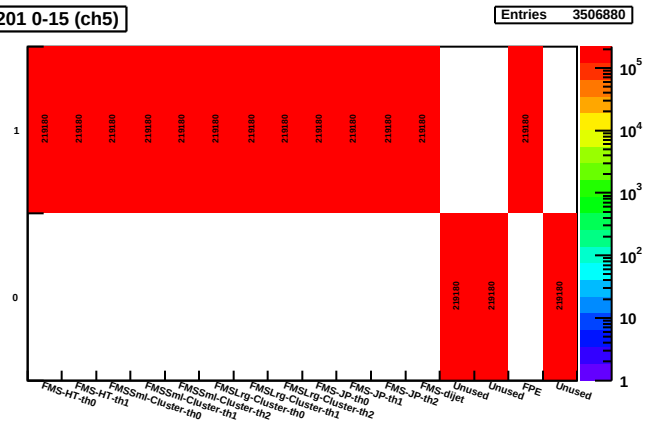


RAT board (ch4)

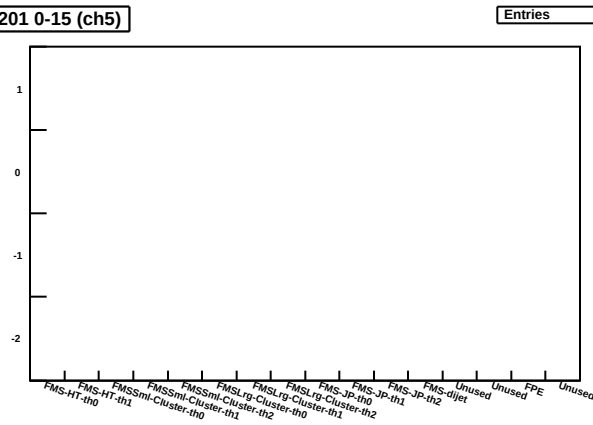




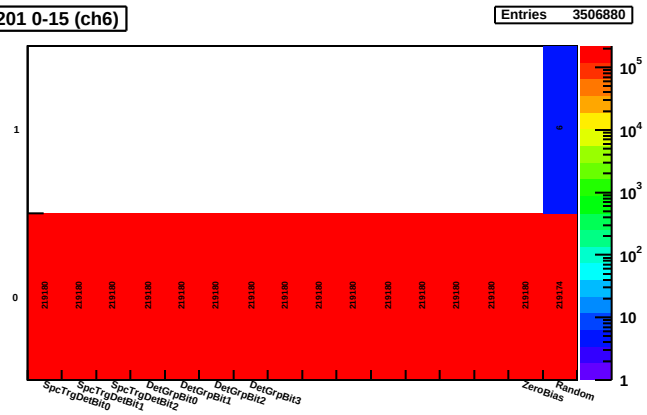
FP201 0-15 (ch5)

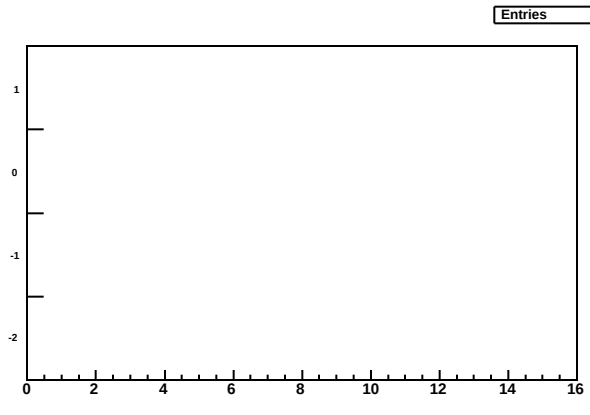
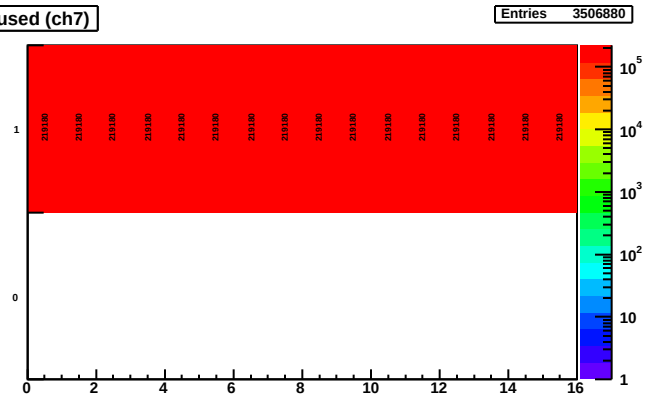
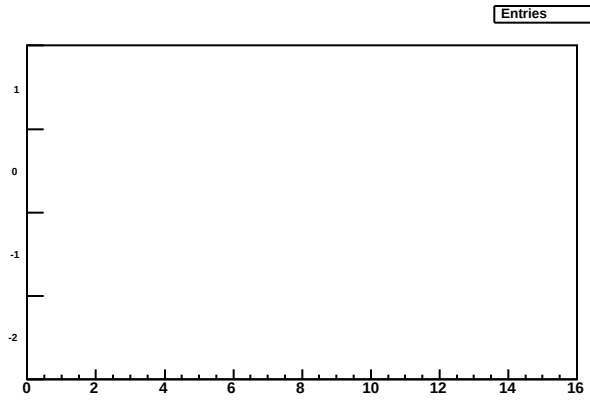


FP201 0-15 (ch5)



ST201 0-15 (ch6)





Unused (ch7)