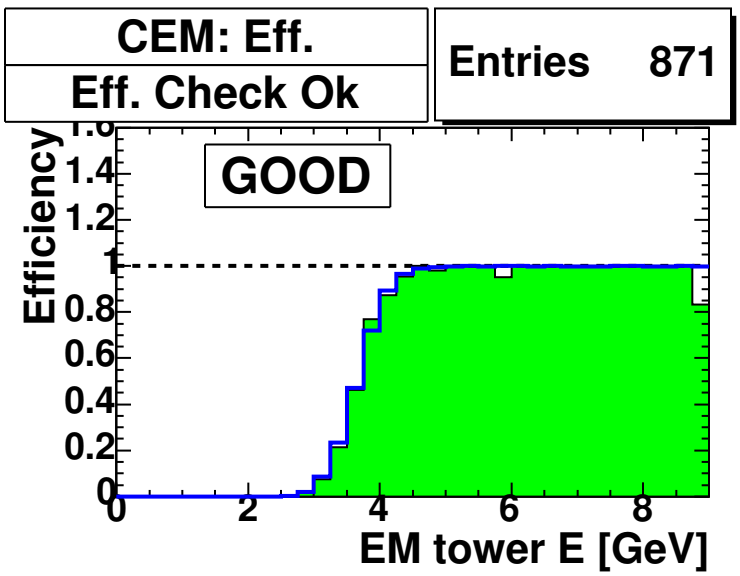
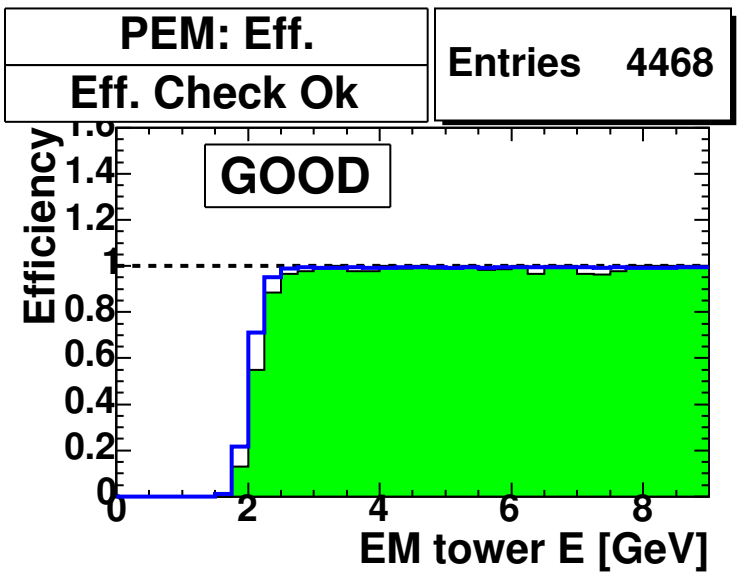
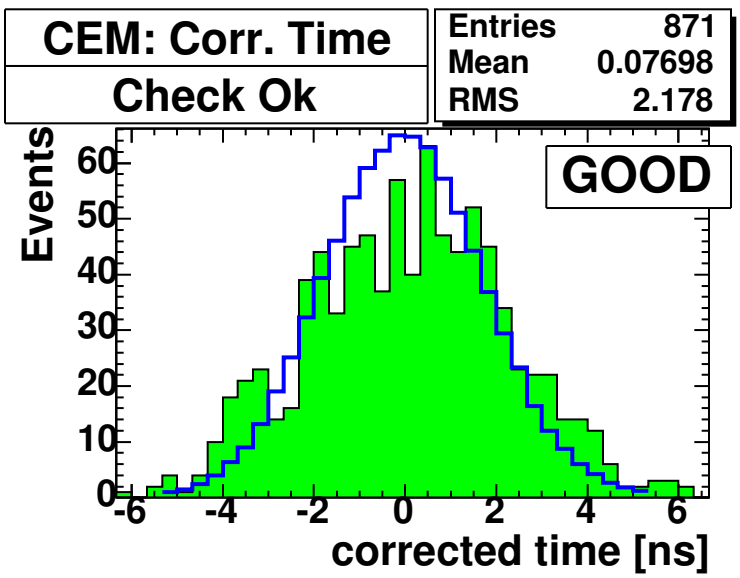
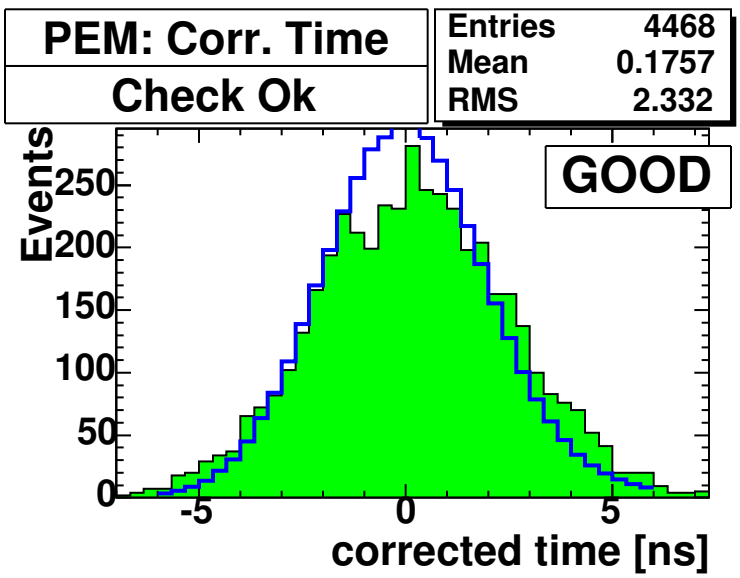
ObjectMon #4 TimeMonitor EMTDC Timing

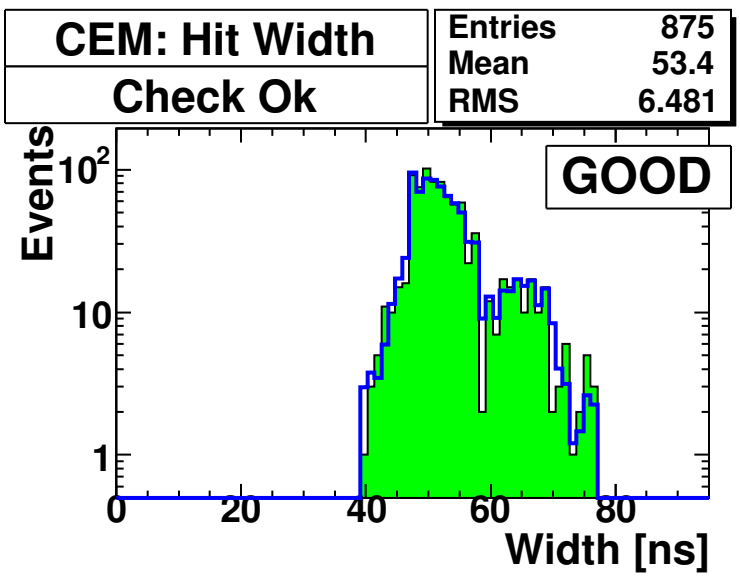
Run:206731 Event: 247254 # of Events:788 Time: Mon Nov 7 14:29:28 2005 Ref.Run:204185

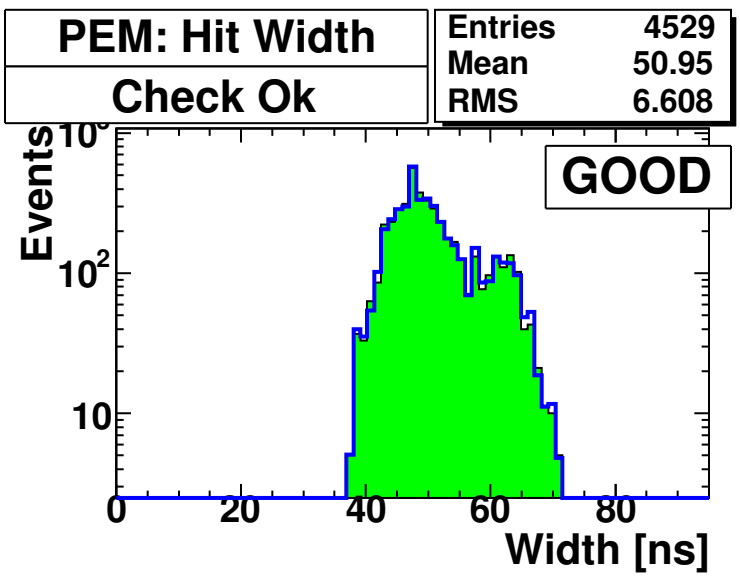












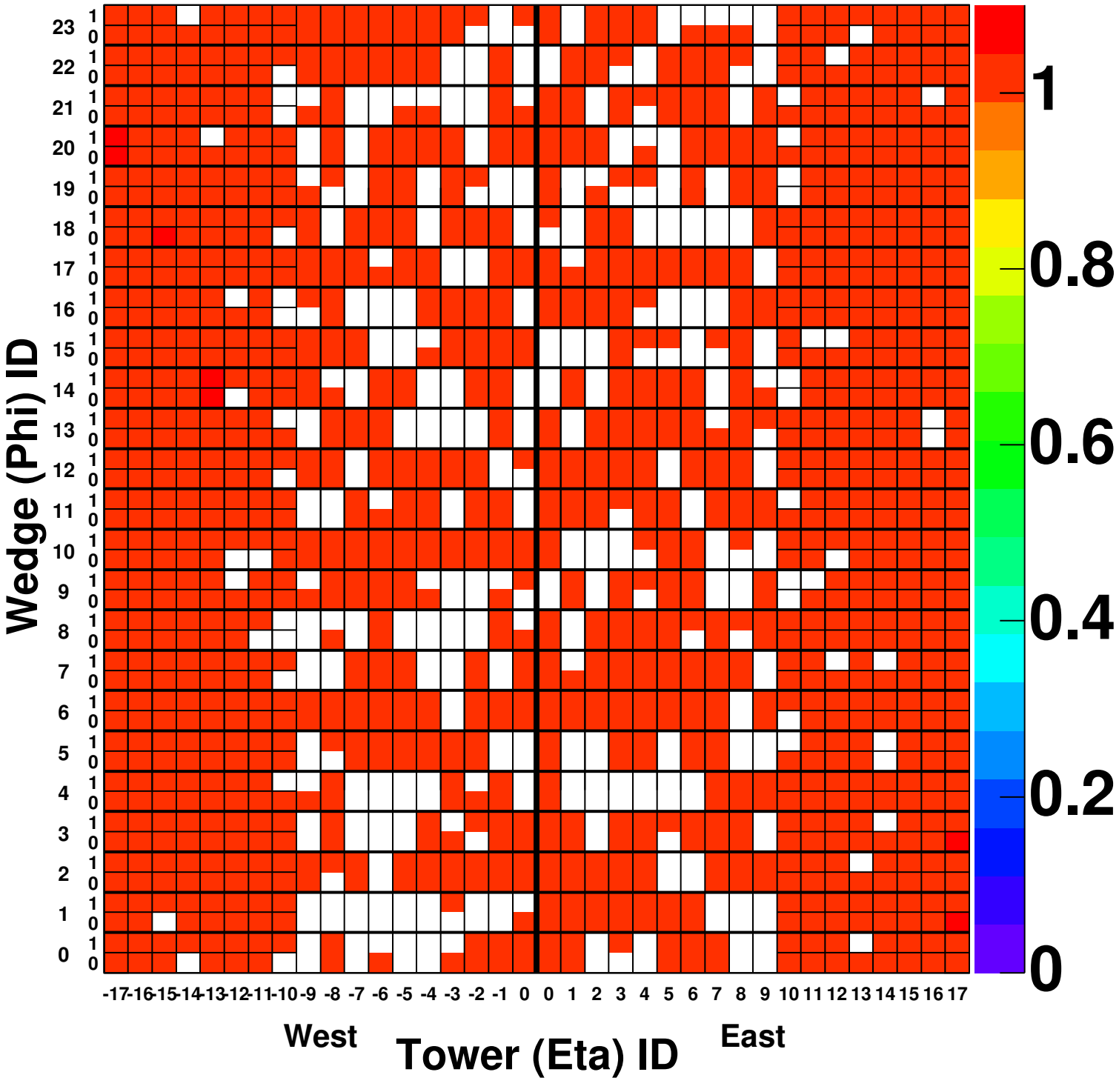
ObjectMon #8 TimeMonitor EMTD: 100% Eff 2D

Run:206731 Event: 247254 # of Events:788 Time: Mon Nov 7 14:29:28 2005 Ref.Run:204185

EMTDC: Eff. of EM Phototubes in 100% range

not red are BAD

100% Energy range [GeV]:
CEM: PMTE ≥ 6.25
PEM: PMTE ≥ 3.00

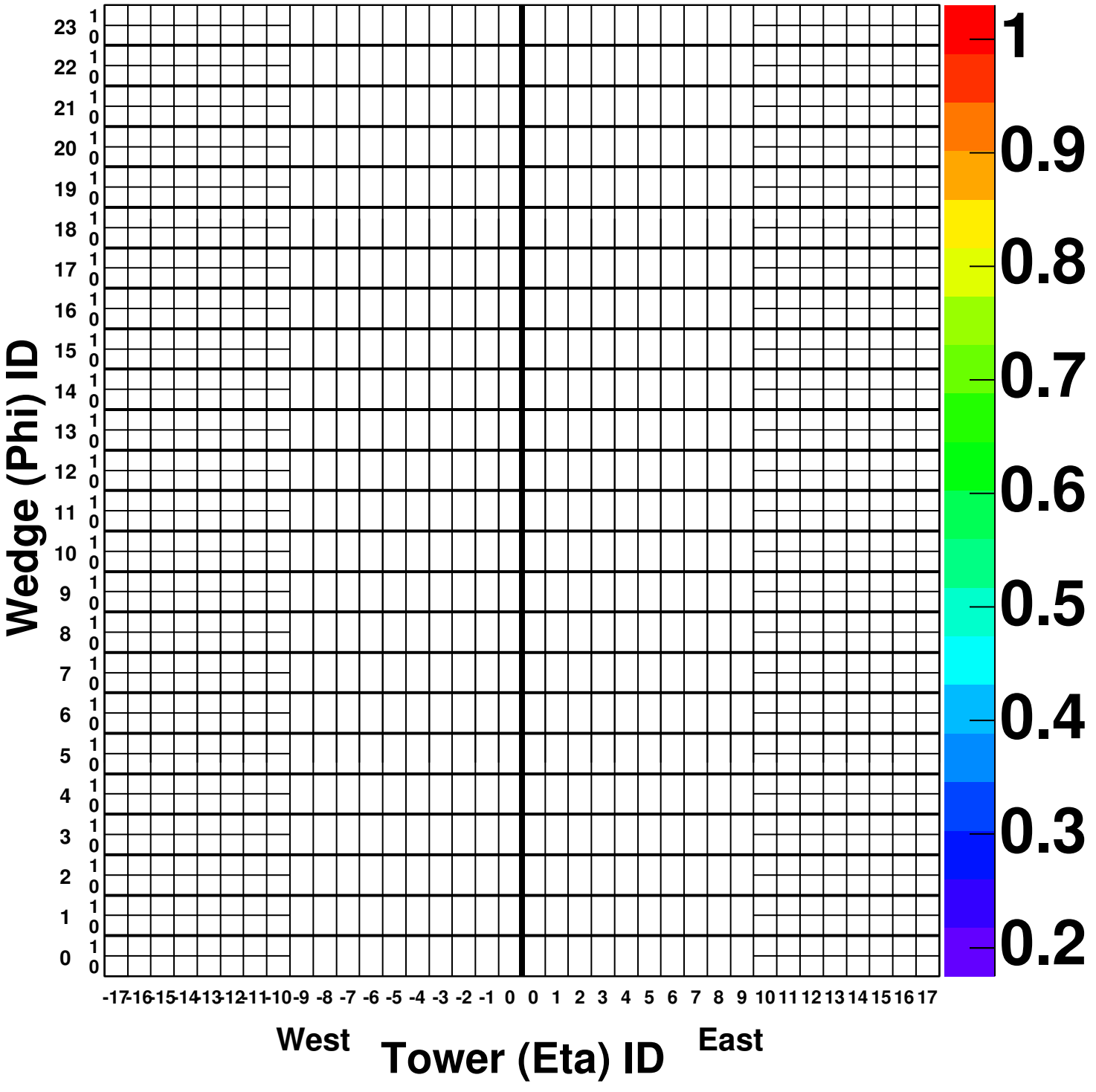


ObjectMon #22 TimeMonitor EMTD: Fit Efficiency

Run:206731 Event: 247254 # of Events:788 Time: Mon Nov 7 14:29:28 2005 Ref.Run:204185

EMTDC: Eff. Fit Plateau
not red are BAD

ASD Time Window is
520 ns < t_0 < 660 ns

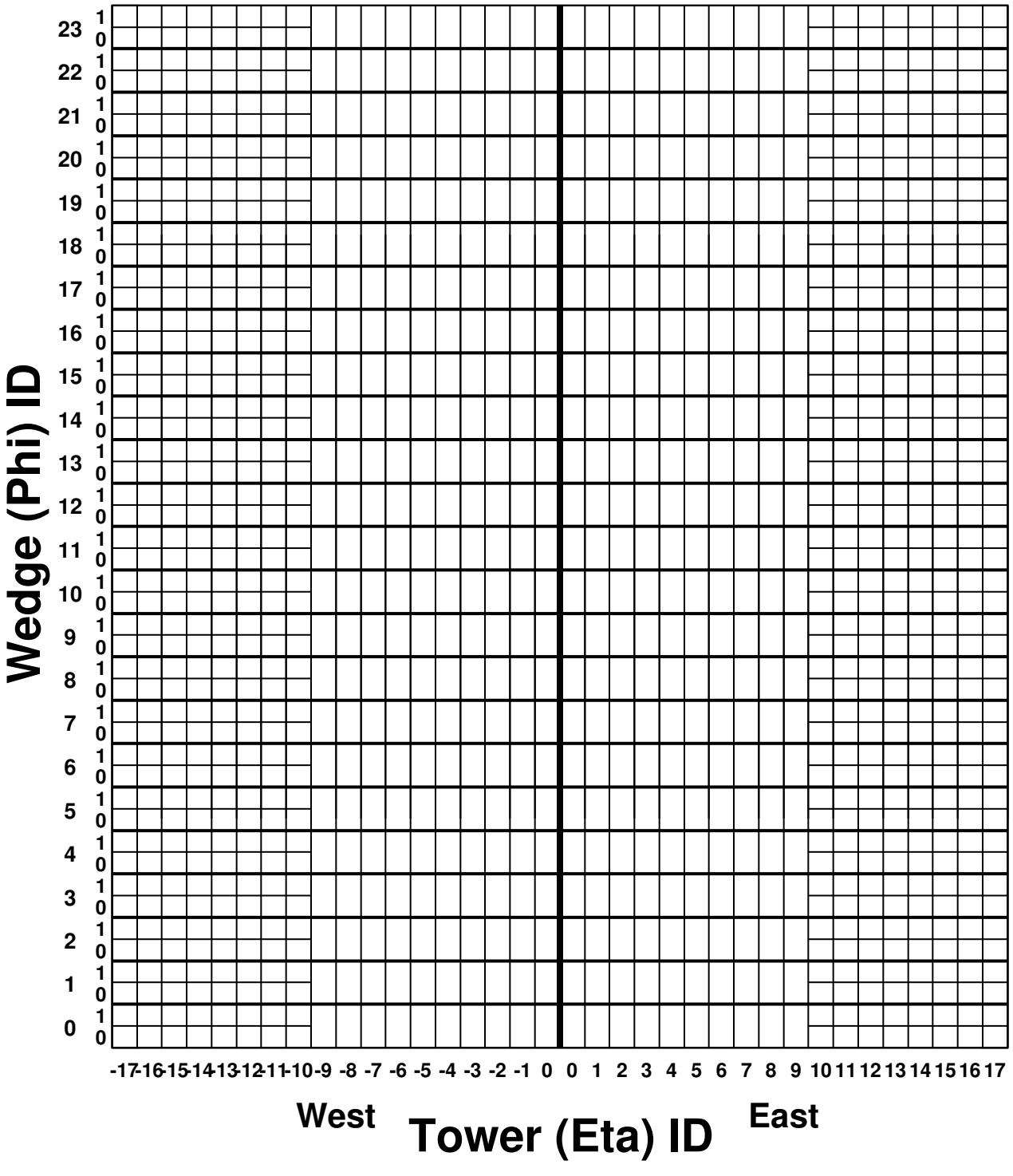


ObjectMon #20 TimeMonitor EMTD: Thresholds

Run:206731 Event: 247254 # of Events:788 Time: Mon Nov 7 14:29:28 2005 Ref.Run:204185

EMTDC: 50% Thresholds
red - BAD

ASD Time Window is
520 ns < t_0 < 660 ns
units for CEM: ADC counts * 0.01
units for PEM: ADC counts * 0.044

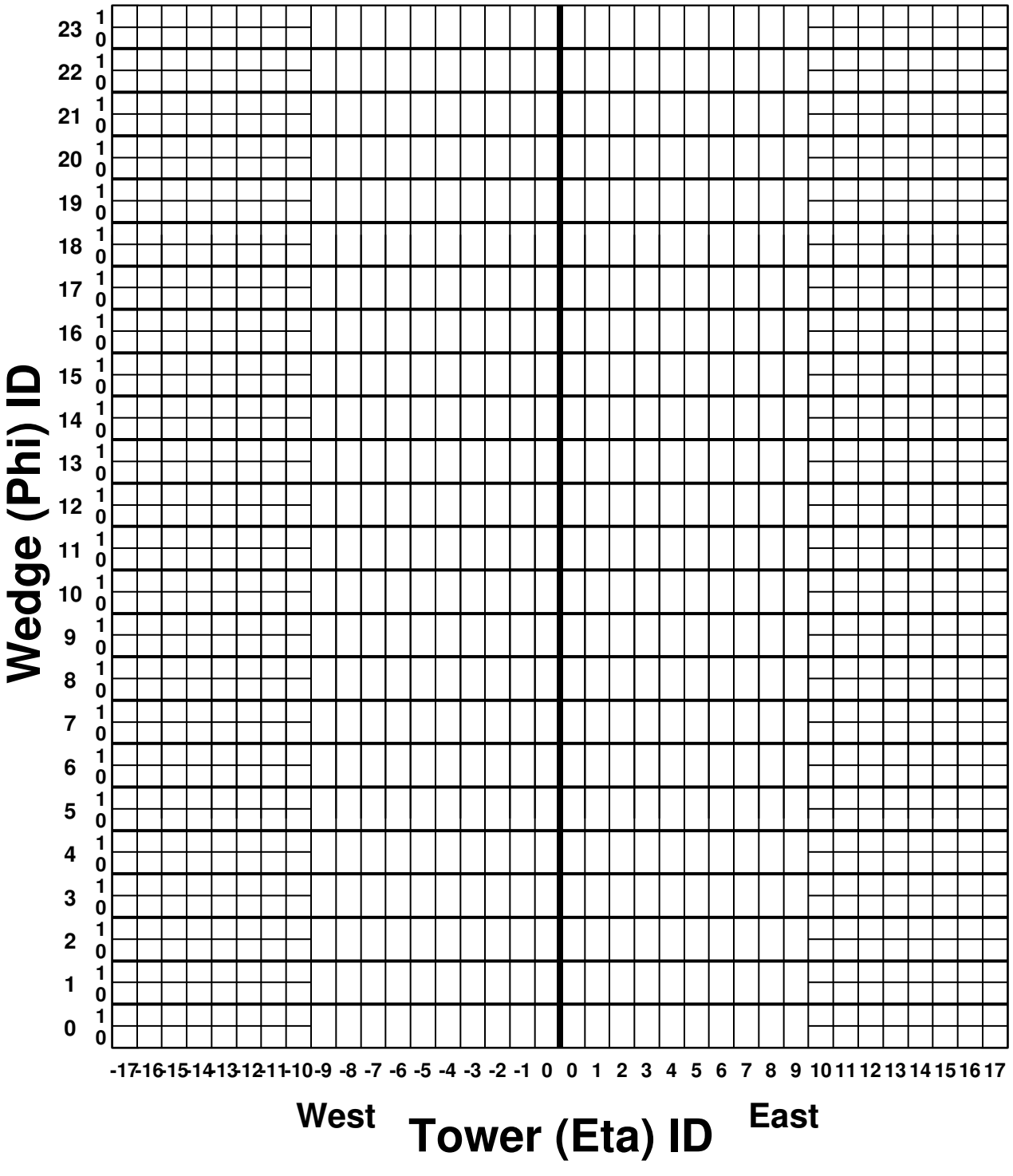


ObjectMon #21 TimeMonitor EMTD: Threshold Sigma

Run:206731 Event: 247254 # of Events:788 Time: Mon Nov 7 14:29:28 2005 Ref.Run:204185

EMTDC: Threshold Width
red - BAD

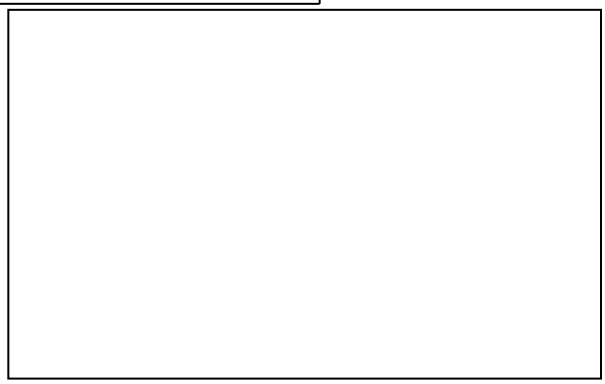
ASD Time Window is
520 ns < t_0 < 660 ns
units for CEM: ADC counts * 0.01
units for PEM: ADC counts * 0.045



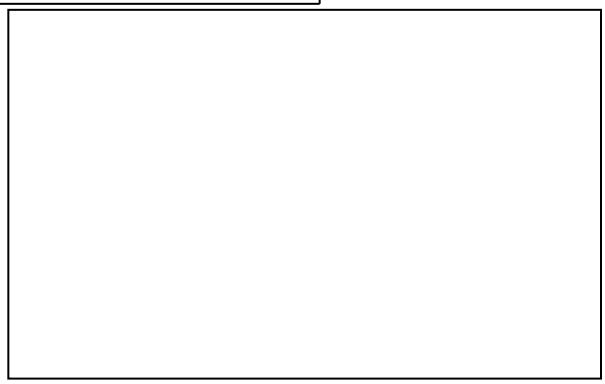
ObjectMon #9 TimeMonitor EMTD: Thresh., Eff. and Sigmas

Run:206731 Event: 247254 # of Events:788 Time: Mon Nov 7 14:29:28 2005 Ref.Run:204185

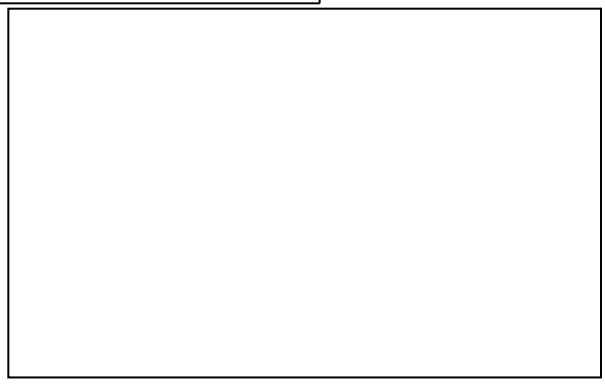
CEM: Eff. Plateau Distrib.



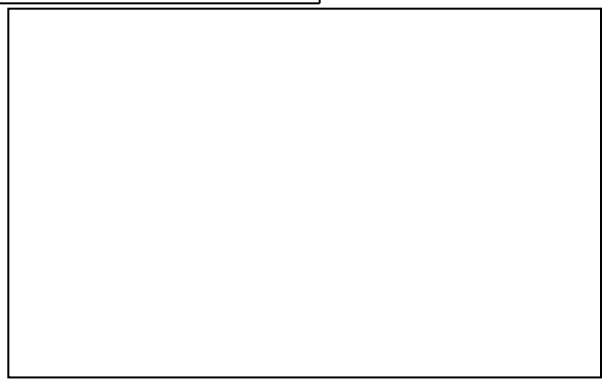
PEM: Eff. Plateau Distrib.



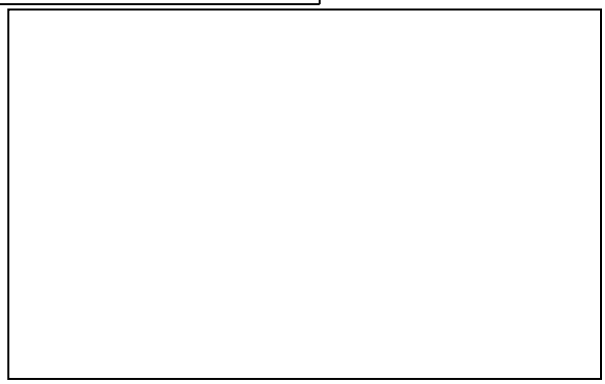
CEM: Threshold Distrib.



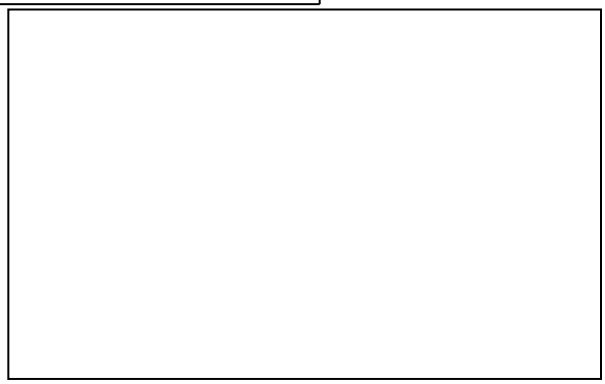
PEM: Threshold Distrib.



CEM: Width Distrib.



PEM: Width Distrib.



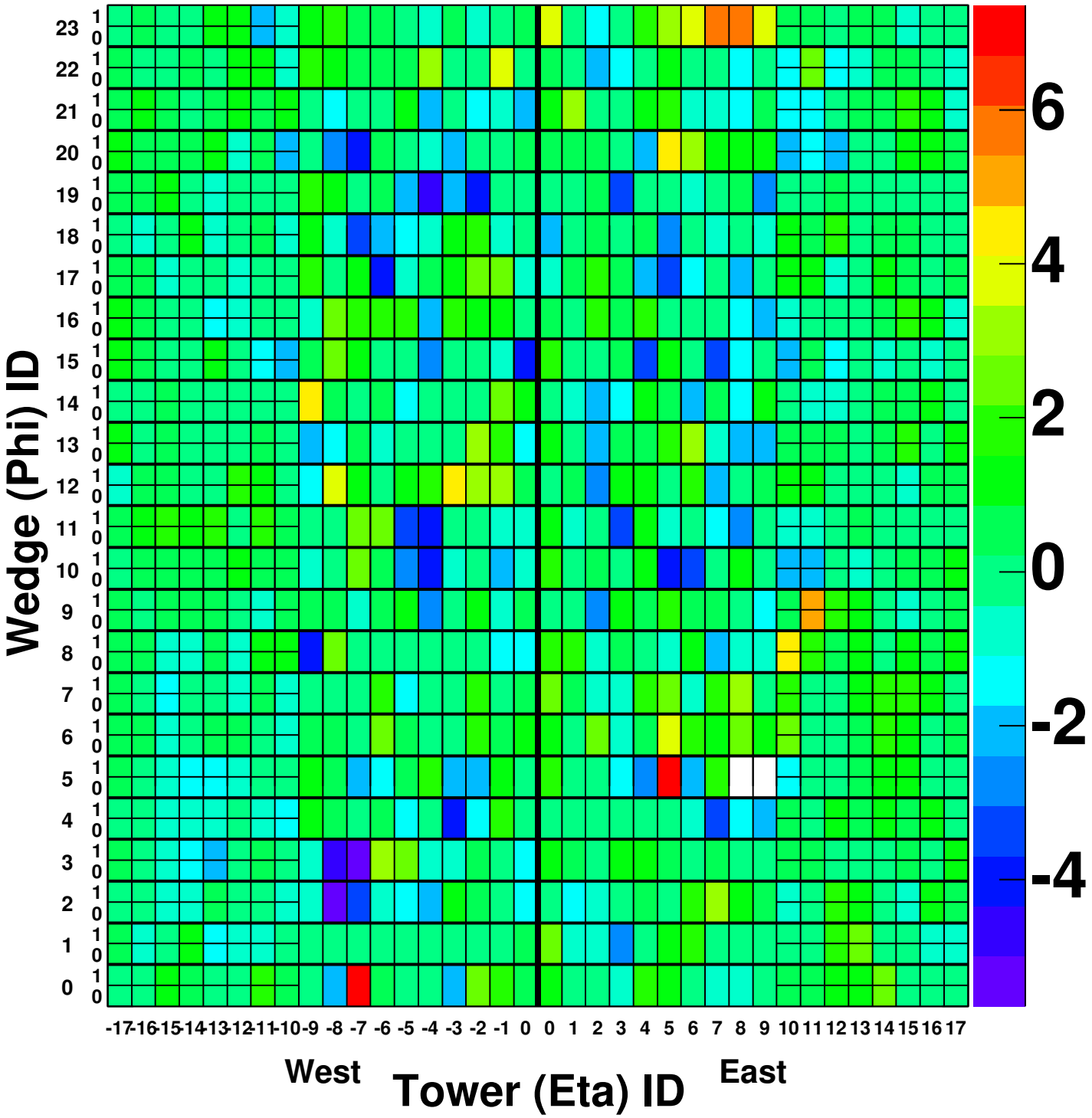
ObjectMon #12 TimeMonitor EMTD: Mean Corrected t0

Run:206731 Event: 247254 # of Events:788 Time: Mon Nov 7 14:29:28 2005 Ref.Run:204185

EMTDC: Mean Corrected t_0

purple or red - problems

ASD Time Window is
520 ns < t_0 < 660 ns
Eeven+Eodd > 0.20 GeV
$|t_{0corr}|$<15.0 ns



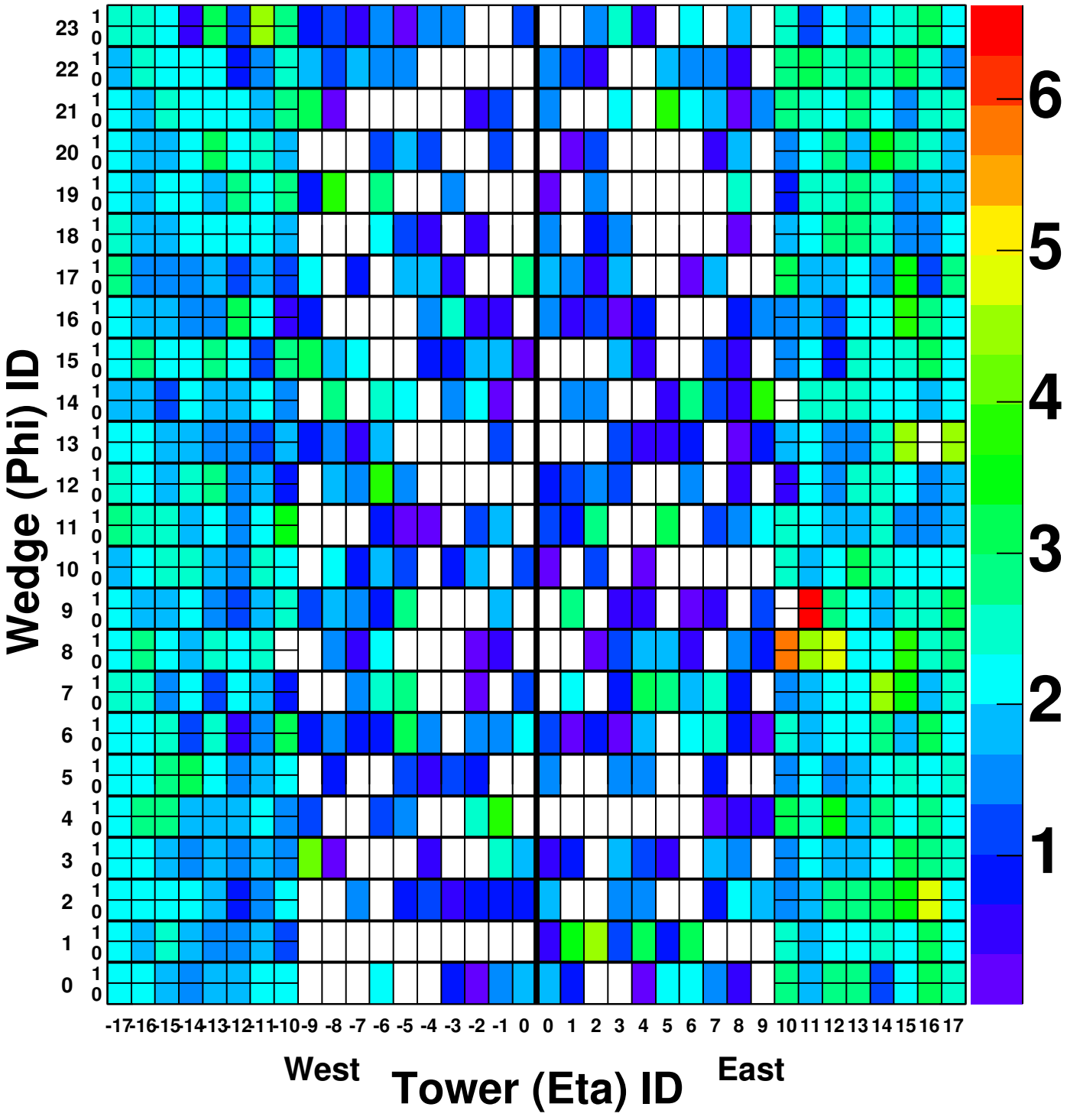
ObjectMon #13 TimeMonitor EMTD: RMS for Corrected t0

Run:206731 Event: 247254 # of Events:788 Time: Mon Nov 7 14:29:28 2005 Ref.Run:204185

EMTDC: Corrected t_0 RMS

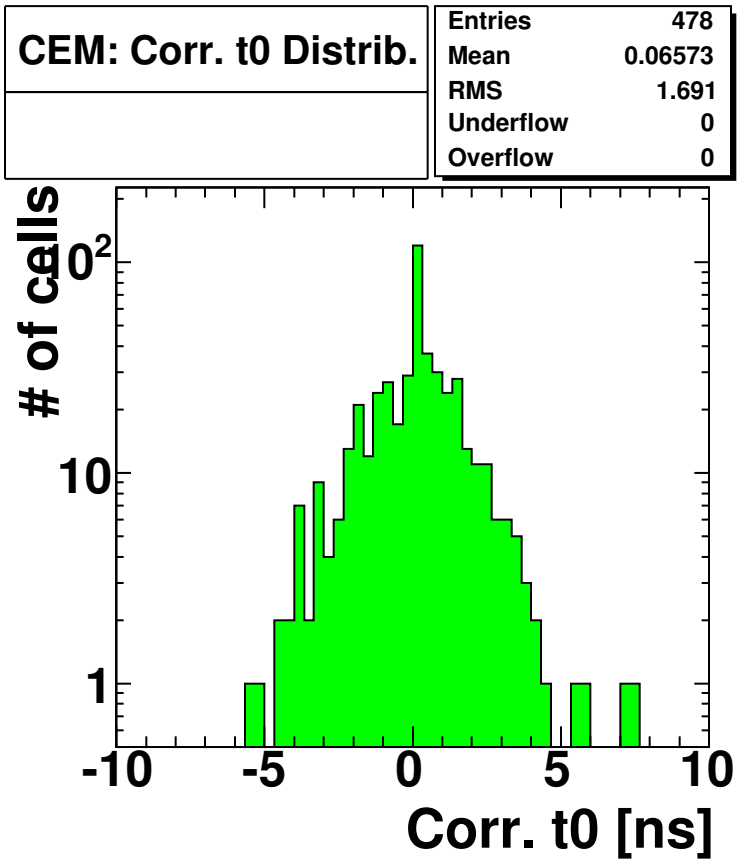
purple or red - problems

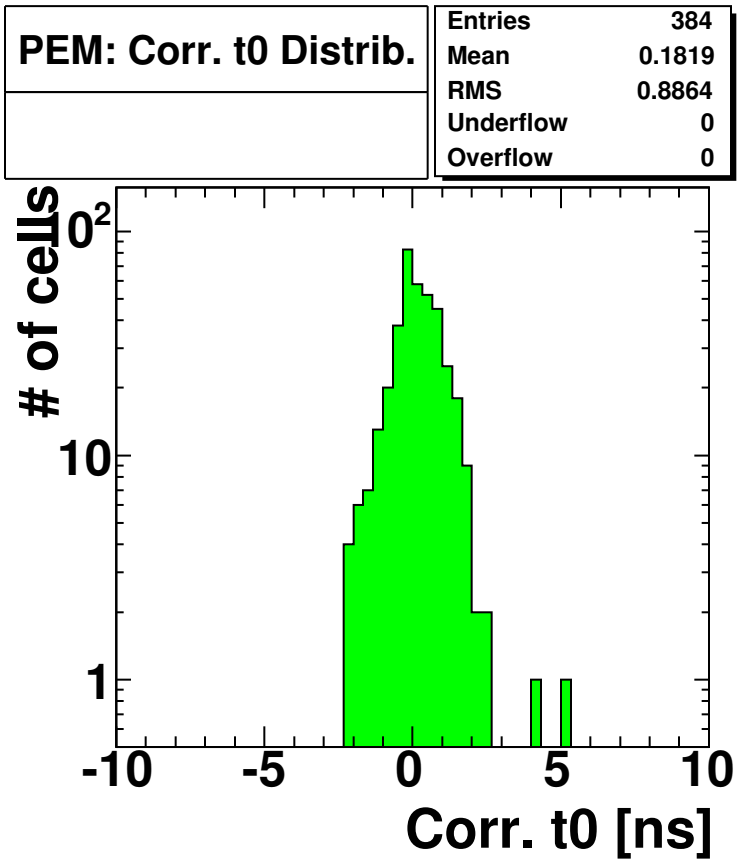
ASD Time Window is
520 ns < t_0 < 660 ns
Eeven+Eodd > 0.20 GeV
$|t_{0corr}|$<15.0 ns

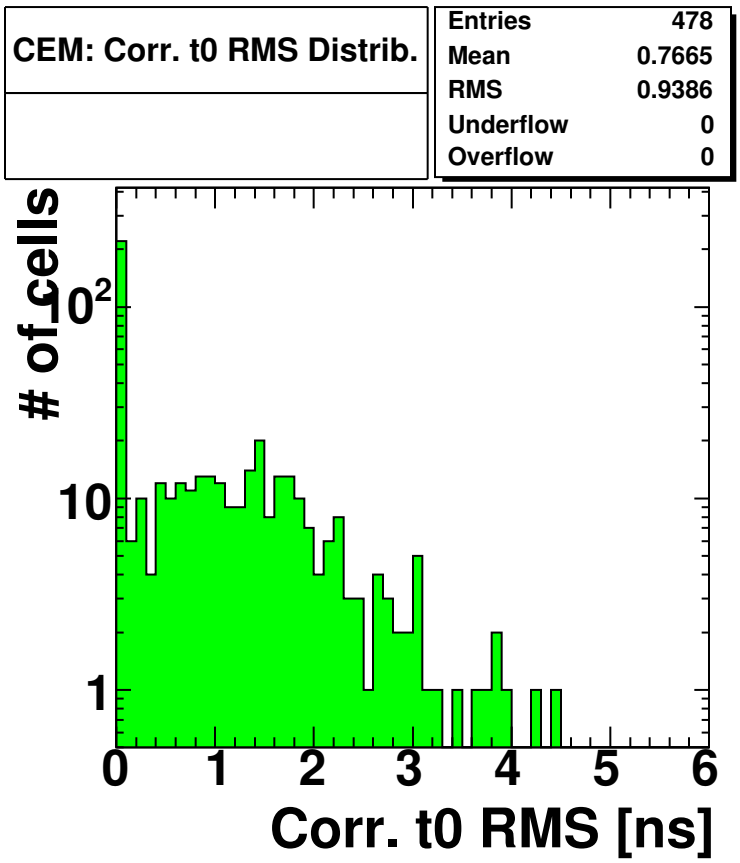


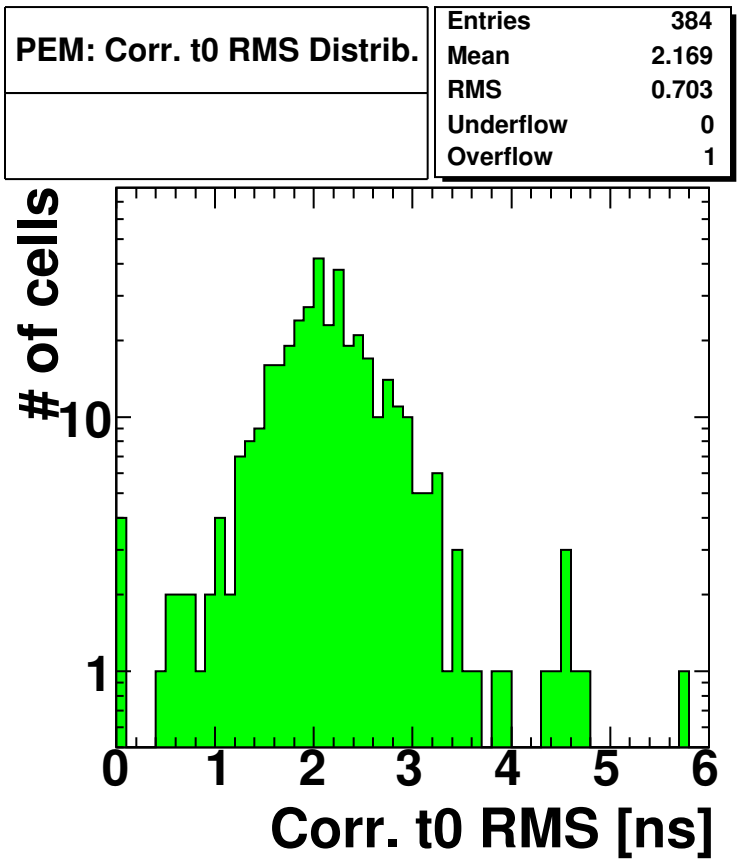
ObjectMon #14 TimeMonitor EMTD: Corrected t0 and RMS

Run:206731 Event: 247254 # of Events:788 Time: Mon Nov 7 14:29:28 2005 Ref.Run:204185









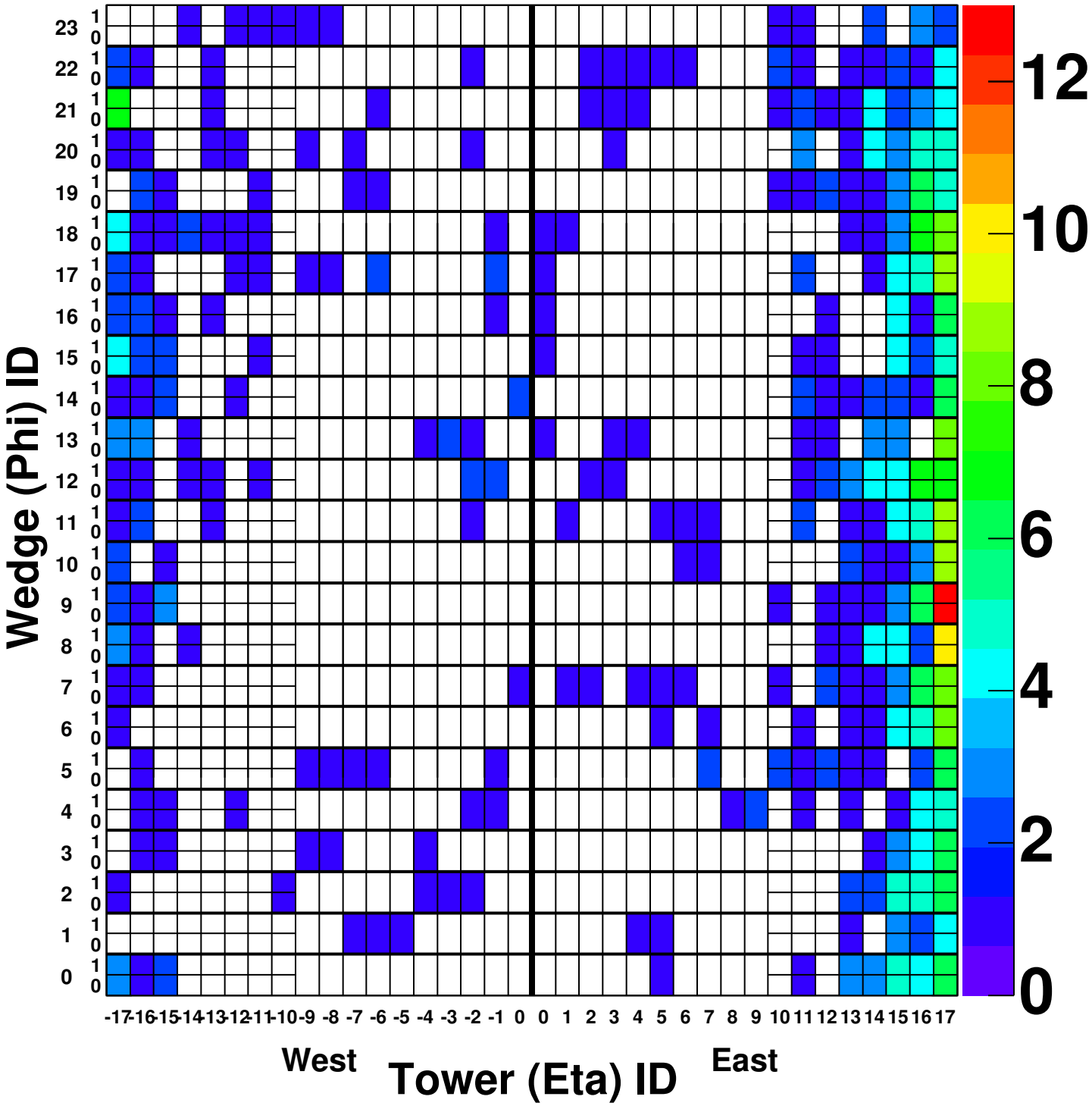
ObjectMon #18 TimeMonitor EMTD: Corr. t0 Far From Mean

Run:206731 Event: 247254 # of Events:788 Time: Mon Nov 7 14:29:28 2005 Ref.Run:204185

EMTDC: Hits Far From Corr. <t0>

potential problems are colored

ASD Time Window is
520 ns < t_0 < 660 ns
Eeven+Eodd > 0.2 GeV
$|t_{0corr}|$>15.0 ns



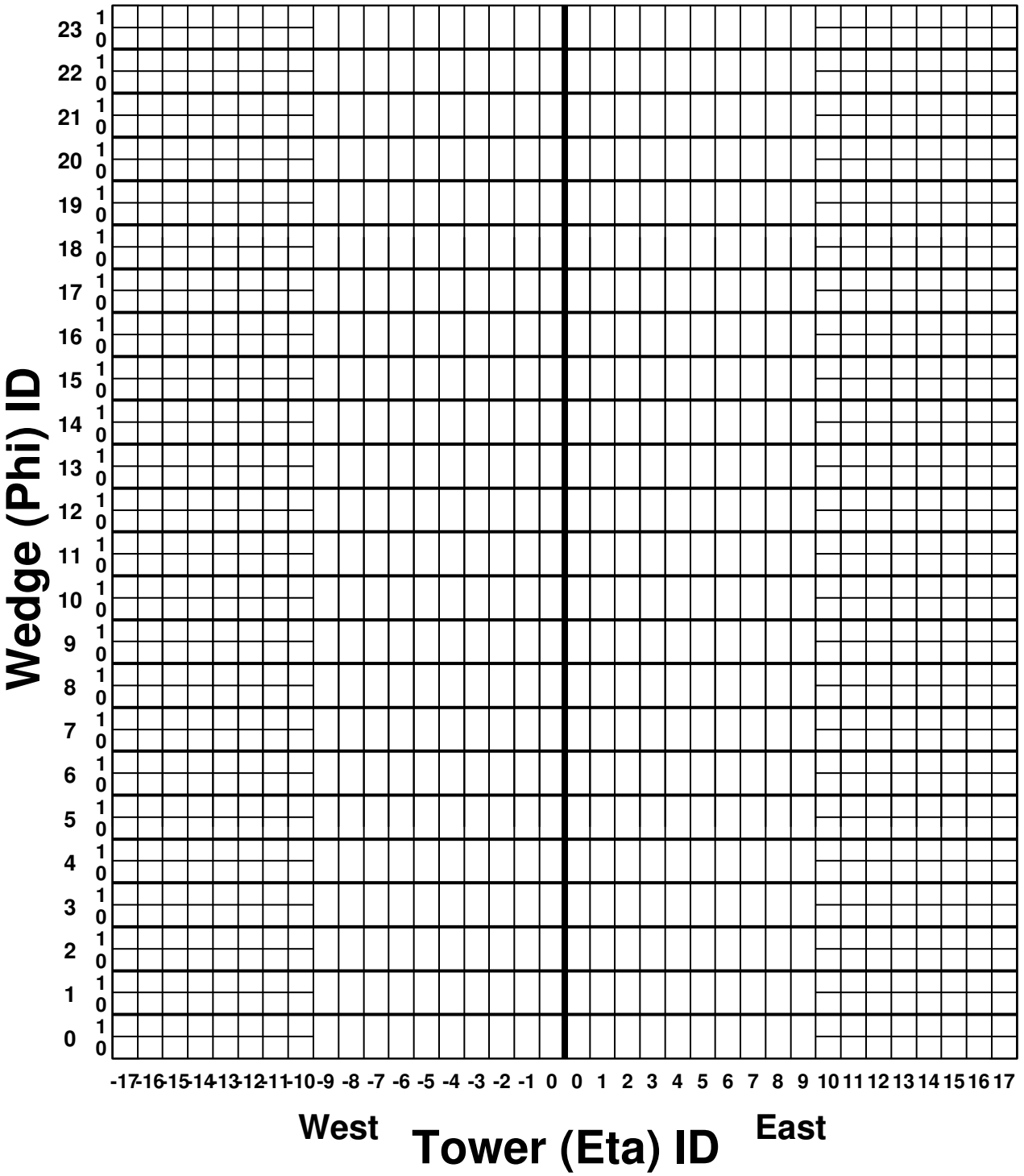
ObjectMon #15 TimeMonitor EMTD: Fake Firings

Run:206731 Event: 247254 # of Events:788 Time: Mon Nov 7 14:29:28 2005 Ref.Run:204185

EMTDC: Fake Firings Occupancy

potential problems are colored

Energy range [GeV]:
Eeven+Eodd < 0.20
ASD Time Window is
520 ns < t_0 < 660 ns



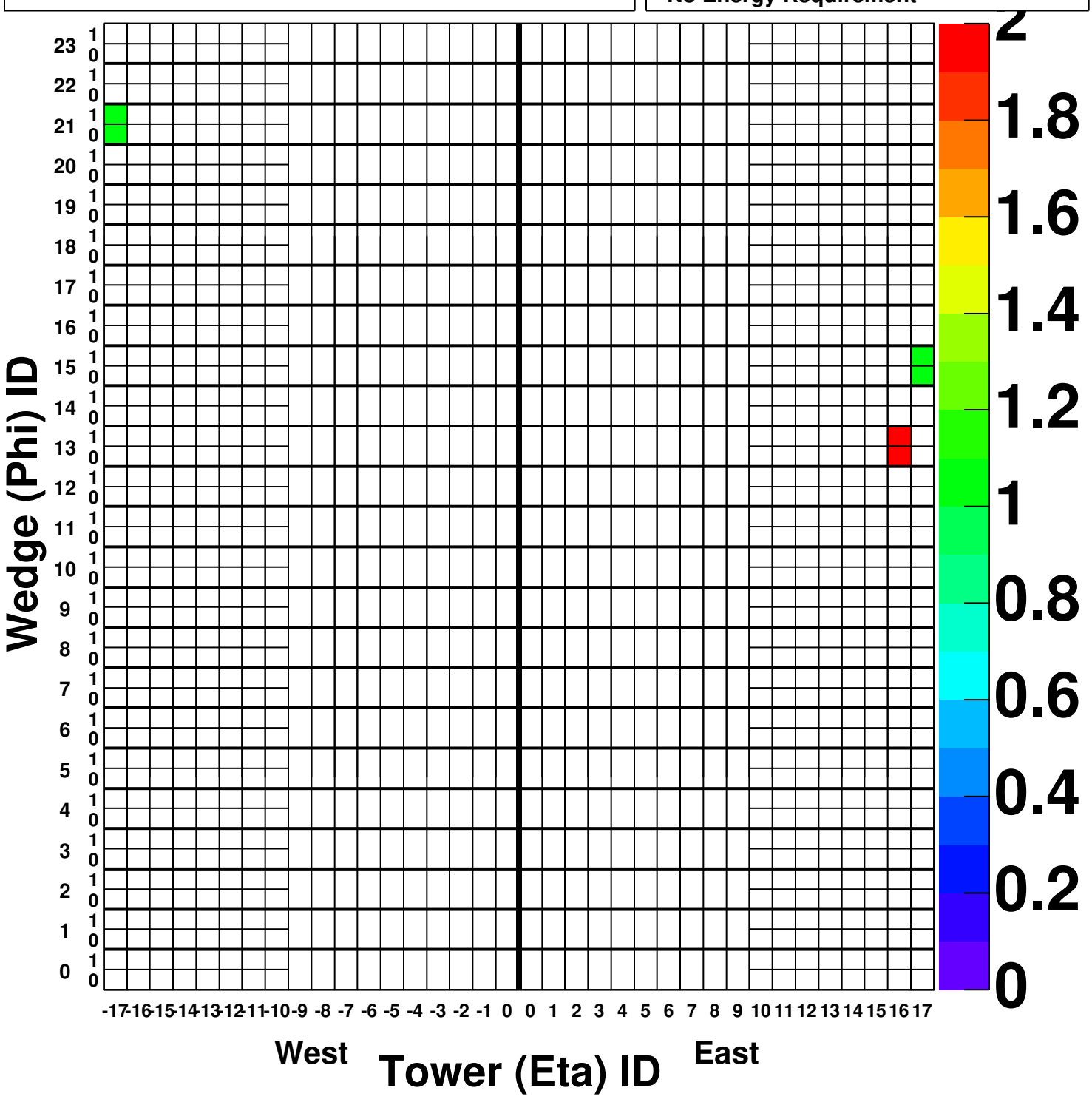
ObjectMon #17 TimeMonitor EMTD: Multiple Firings & Ok Width

Run:206731 Event: 247254 # of Events:788 Time: Mon Nov 7 14:29:28 2005 Ref.Run:204185

EMTDC: Multiply Ok Width Firing Towers

potential problems are colored

ASD Time Window is
520 ns < t_0 < 660 ns
20 < Hit width < 200 ns
No Energy Requirement



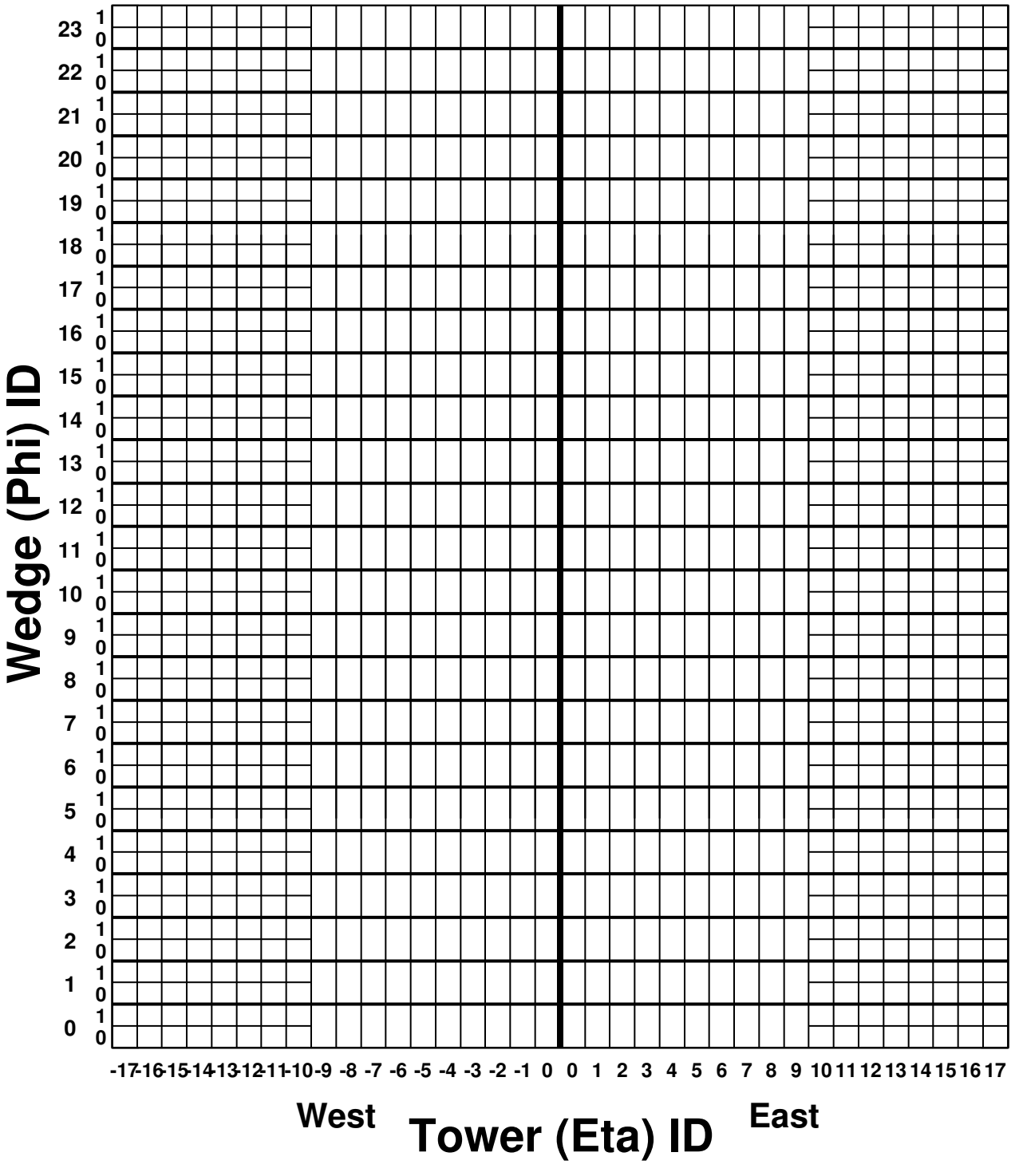
ObjectMon #16 TimeMonitor EMTD: Multiple Firings & Low Width

Run:206731 Event: 247254 # of Events:788 Time: Mon Nov 7 14:29:28 2005 Ref.Run:204185

EMTDC: Low Width Firing Towers

potential problems are colored

ASD Time Window is
520 ns < t_0 < 660 ns
0 < Hit width < 20 ns
No Energy Requirement

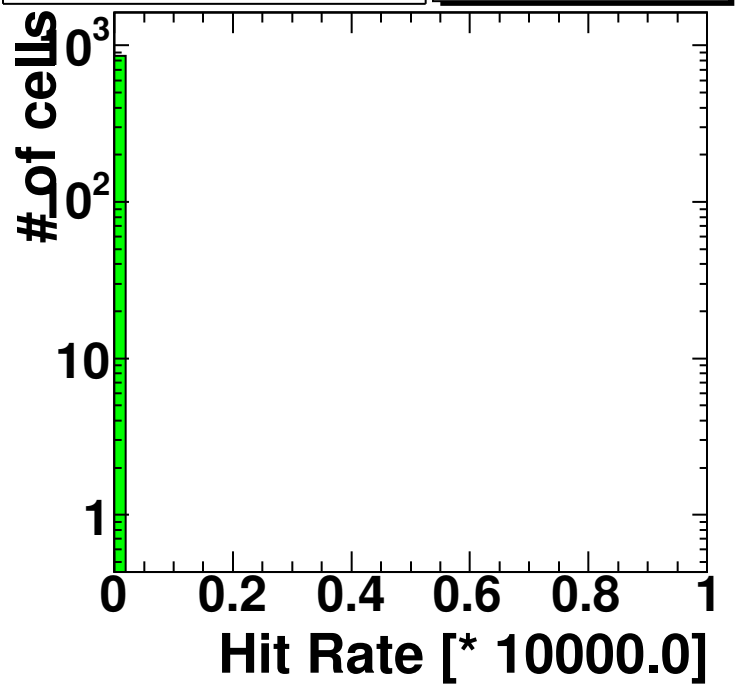


ObjectMon #19 TimeMonitor EMTD: Fakes, Low Width and OOT Hits & Mult. Firings

Run:206731 Event: 247254 # of Events:788 Time: Mon Nov 7 14:29:28 2005 Ref.Run:204185

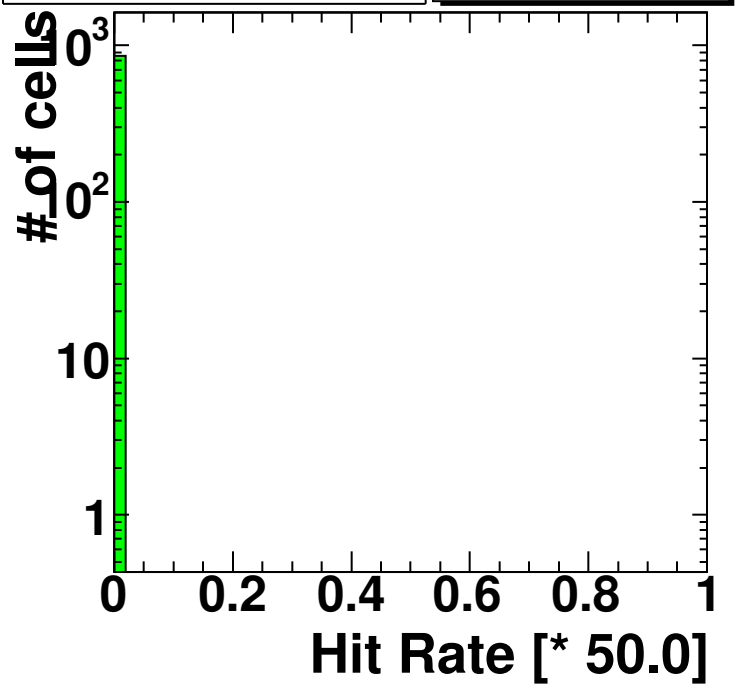
Fake Firing Rate

Entries	862
Mean	0
RMS	-0
Underflow	0
Overflow	0



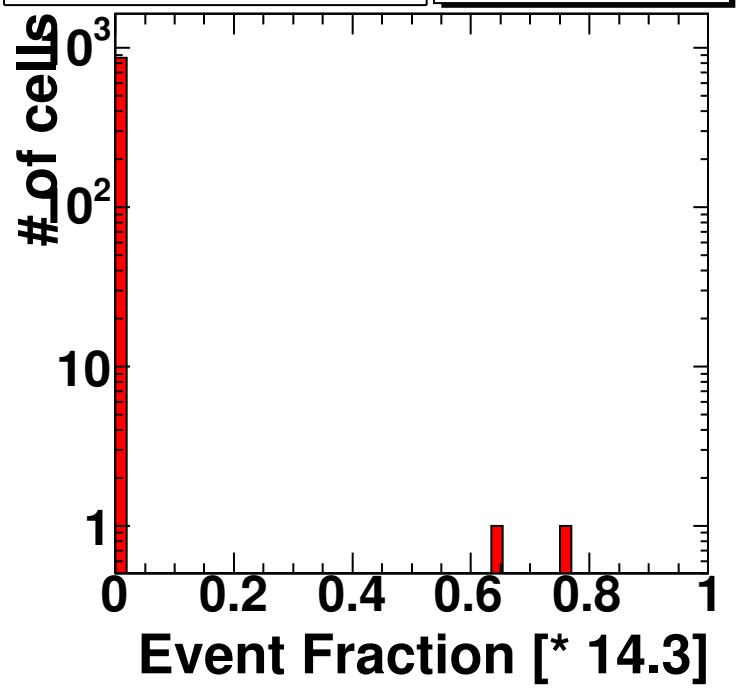
Low Wid. Firng. Rate

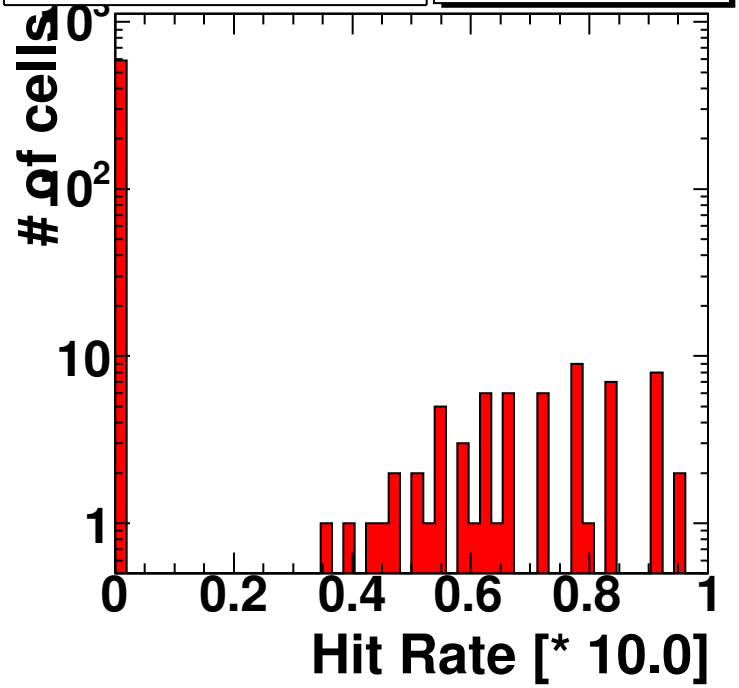
Entries	862
Mean	0
RMS	-0
Underflow	0
Overflow	0



Mult. Ok-Wid. Firng. Rate

Entries	862
Mean	0.0001139
RMS	0.002367
Underflow	0
Overflow	1



OOT Hit Rate

Entries	862
Mean	0.006844
RMS	0.02127
Underflow	0
Overflow	209