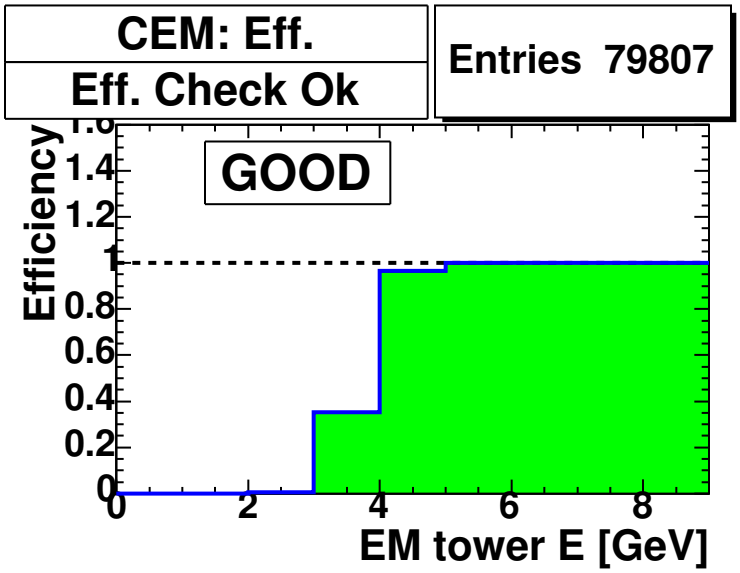
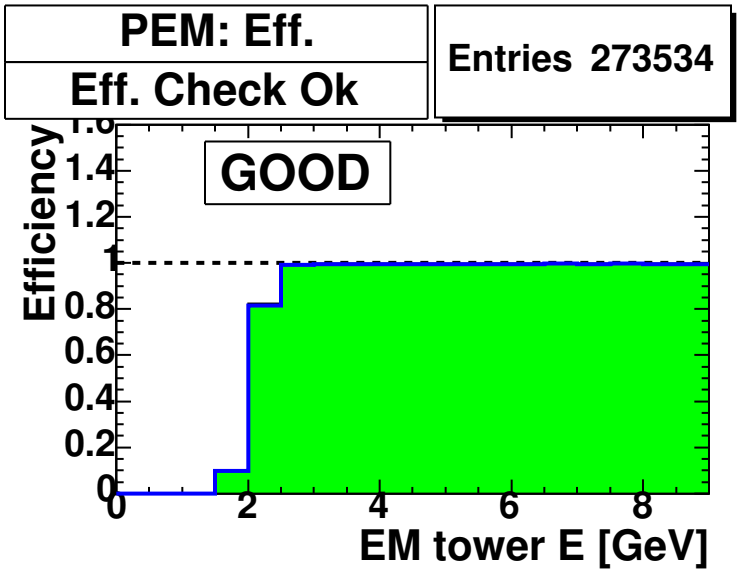
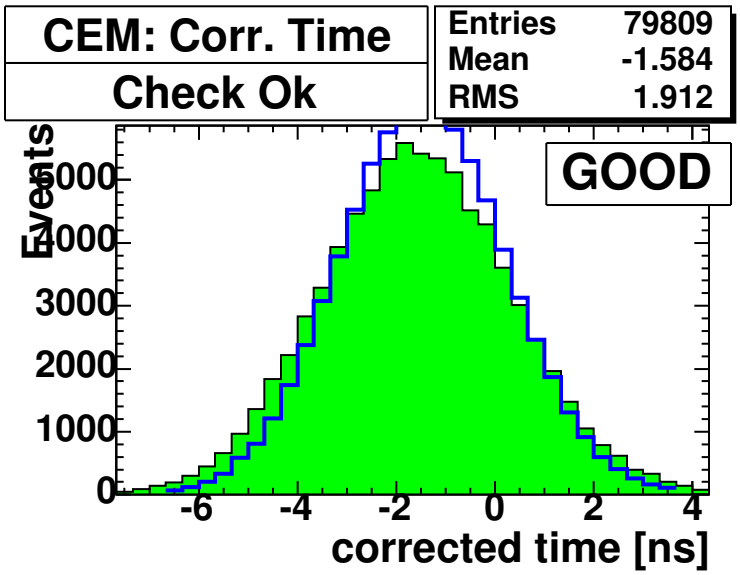
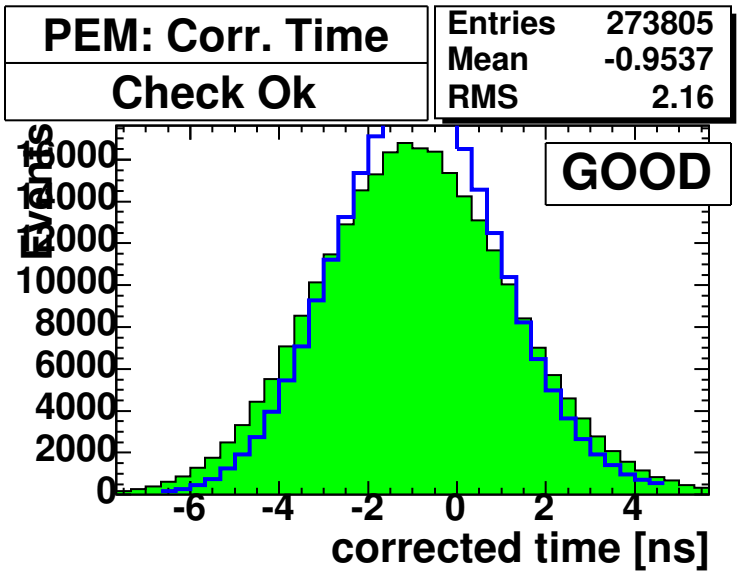
ObjectMon #4 TimeMonitor EMTDC Timing

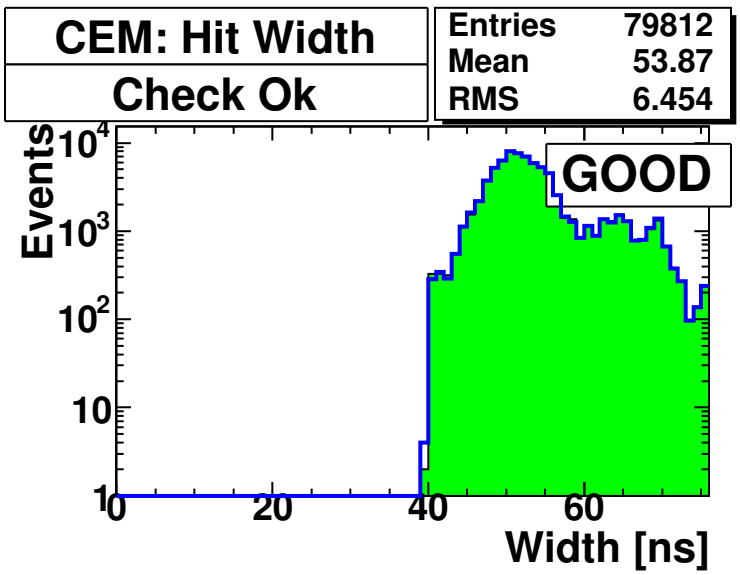
Run:200570 Event: 4479714 # of Events:64253 Time: Wed Jul 6 04:34:55 2005 Ref.Run:199620

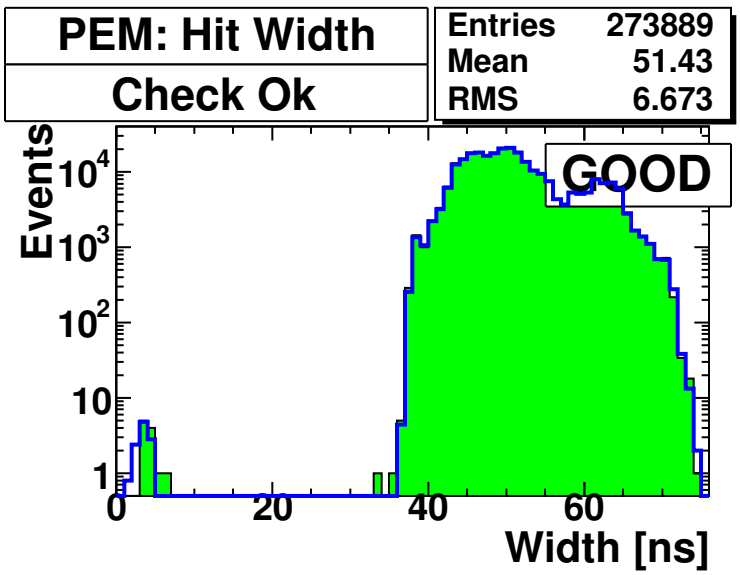












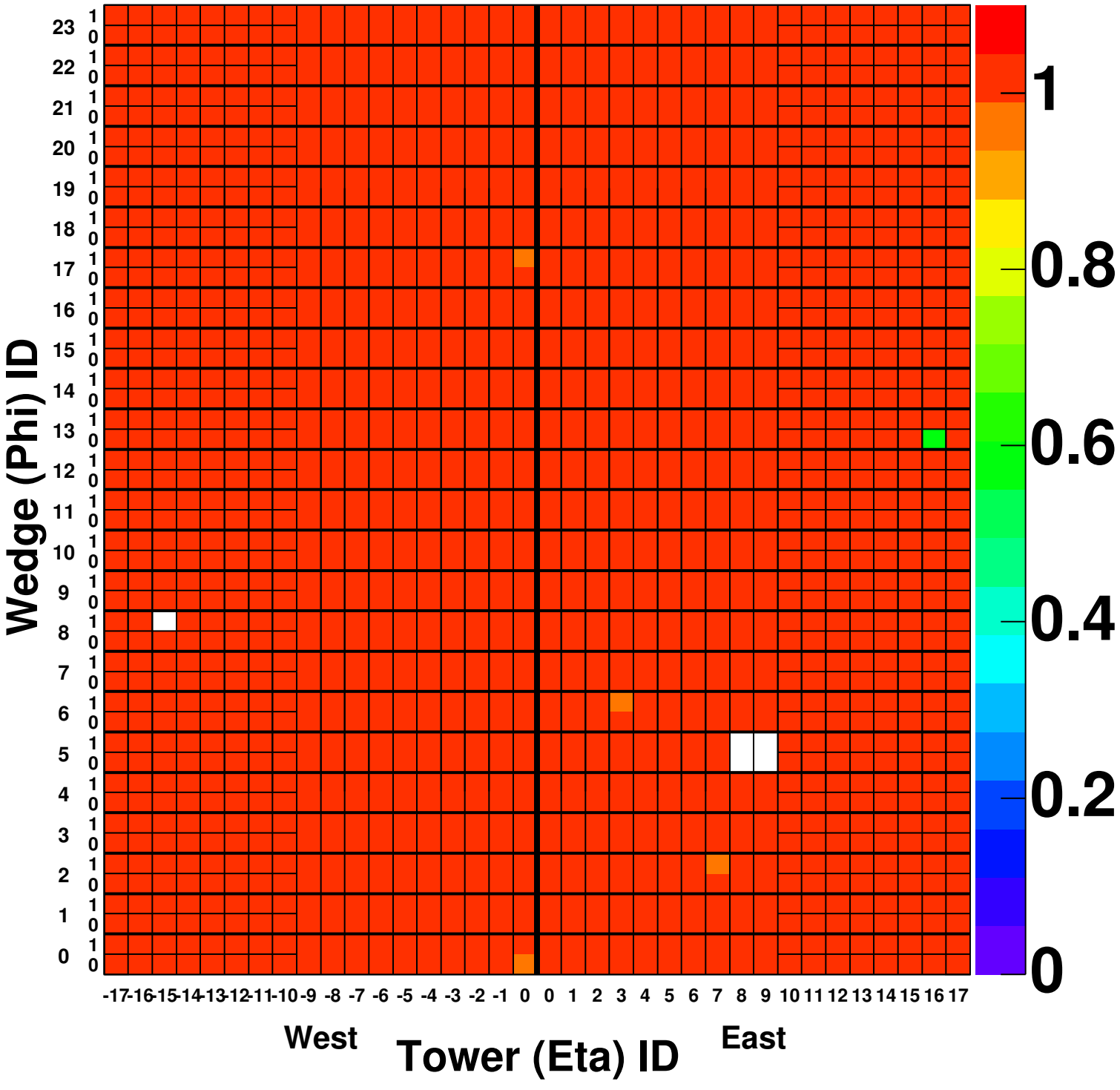
ObjectMon #9 TimeMonitor EMTD: 100% Eff 2D

Run:200570 Event: 4479714 # of Events:64253 Time: Wed Jul 6 04:34:55 2005 Ref.Run:199620

EMTDC: Eff. of EM Phototubes in 100% range

not red are BAD

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

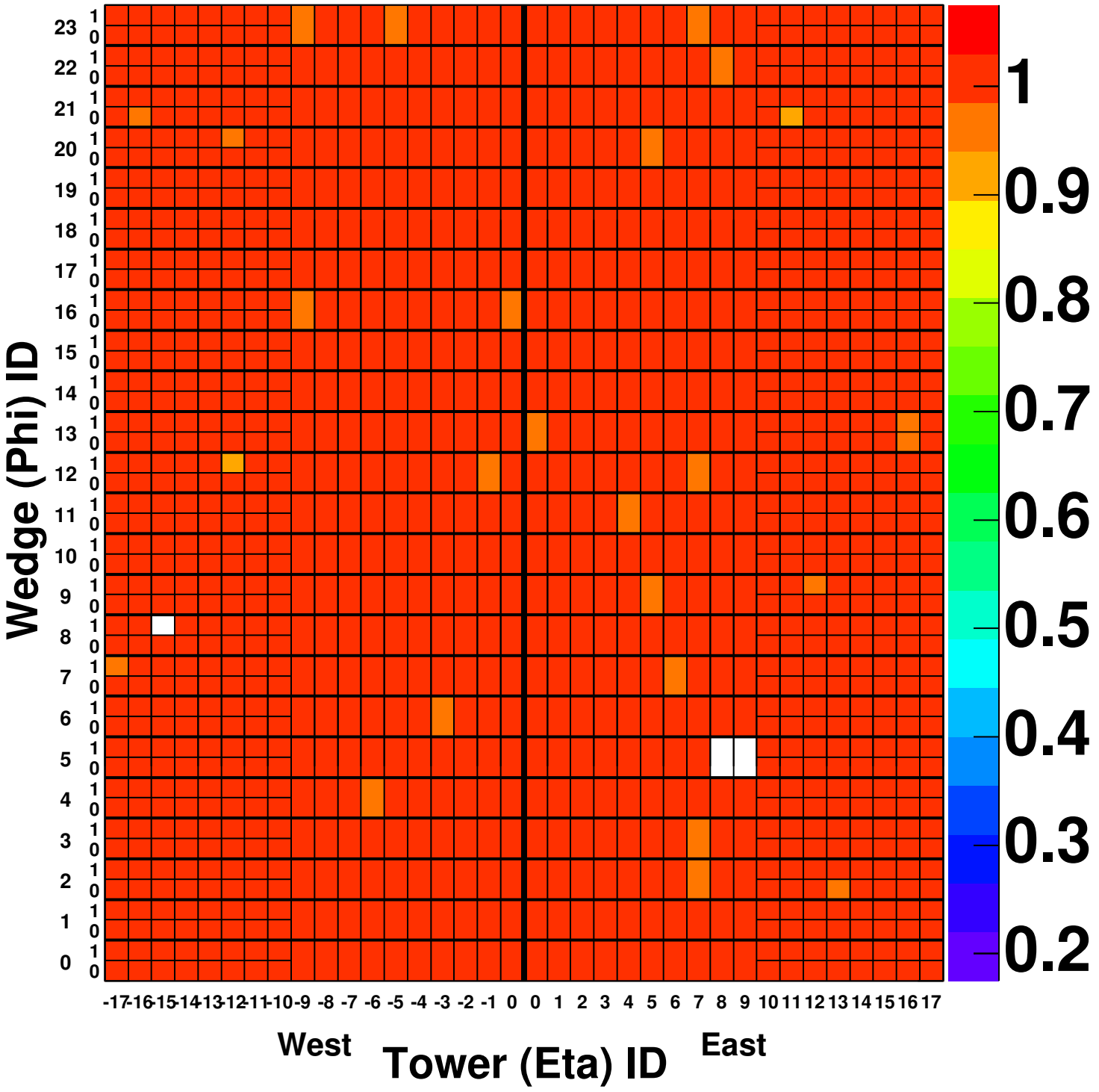


ObjectMon #22 TimeMonitor EMTD: Fit Efficiency

Run:200570 Event: 4479714 # of Events:64253 Time: Wed Jul 6 04:34:55 2005 Ref.Run:199620

EMTDC: Eff. Fit Plateau
not red are BAD

ASD Time Window is
540 ns < CEM t_0 < 620 ns
540 ns < PEM t_0 < 620 ns

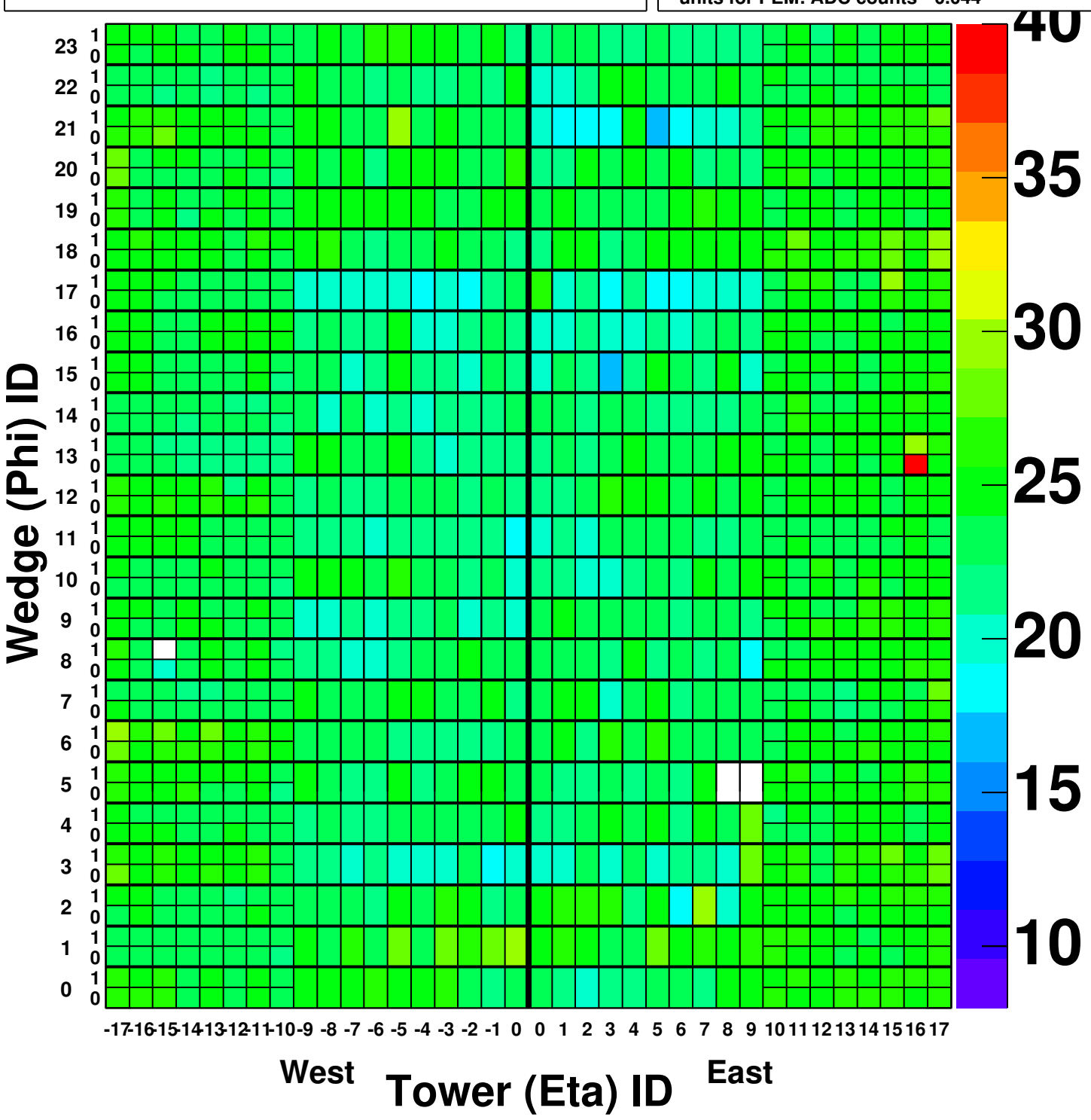


ObjectMon #20 TimeMonitor EMTD: Thresholds

Run:200570 Event: 4479714 # of Events:64253 Time: Wed Jul 6 04:34:55 2005 Ref.Run:199620

EMTDC: 50% Thresholds
red - BAD

ASD Time Window is
540 ns < CEM t_0 < 620 ns
540 ns < PEM t_0 < 620 ns
units for CEM: ADC counts * 0.01
units for PEM: ADC counts * 0.044

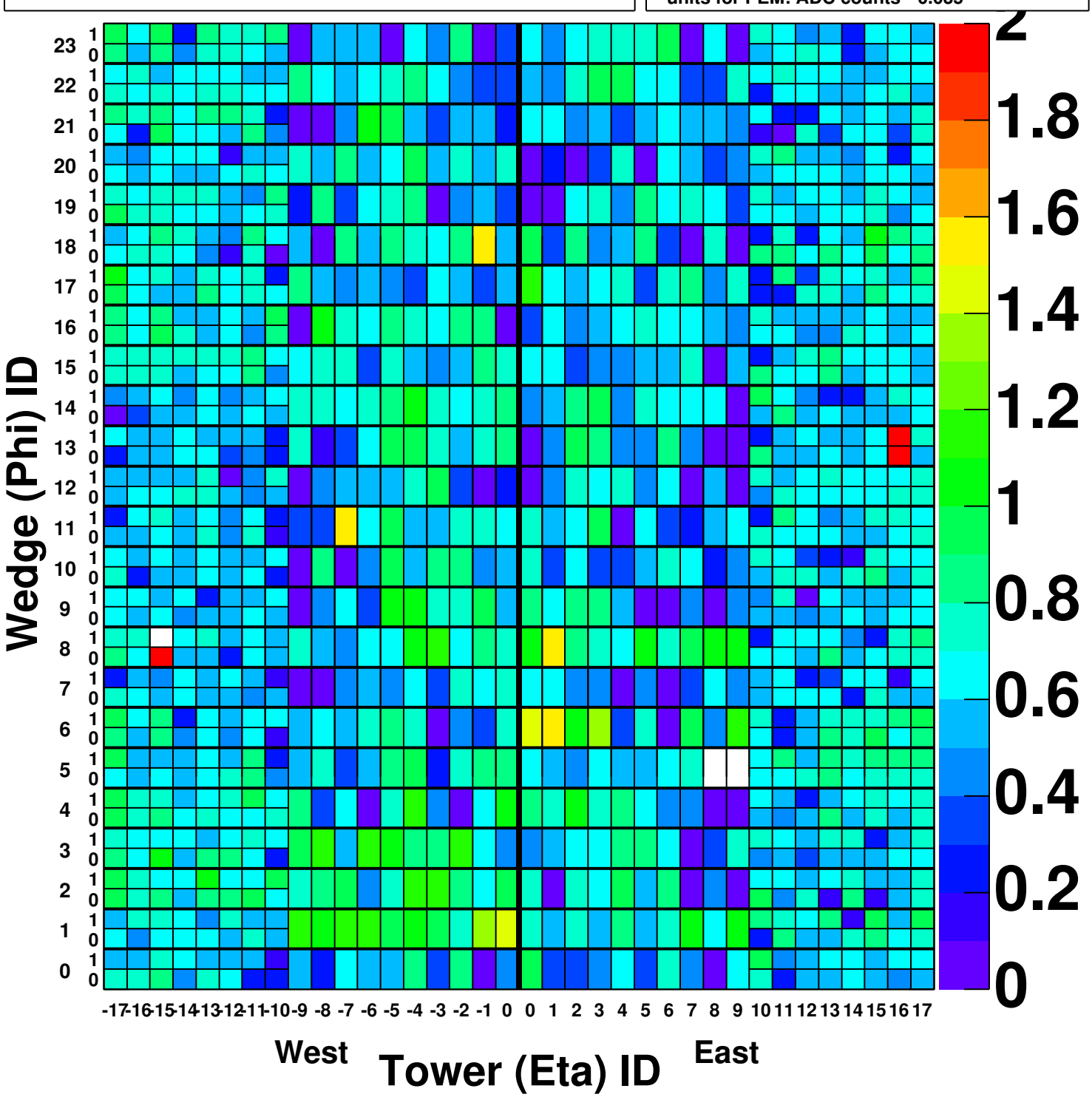


ObjectMon #21 TimeMonitor EMTD: Threshold Sigma

Run:200570 Event: 4479714 # of Events:64253 Time: Wed Jul 6 04:34:55 2005 Ref.Run:199620

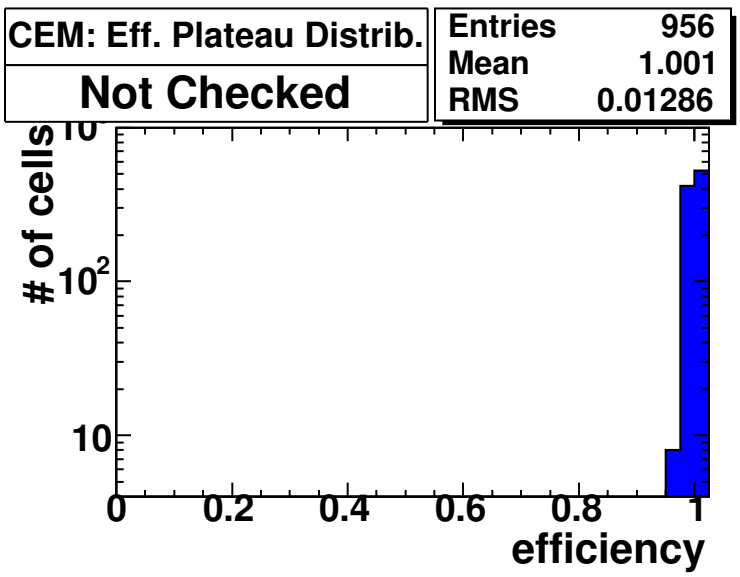
EMTDC: Threshold Width
red - BAD

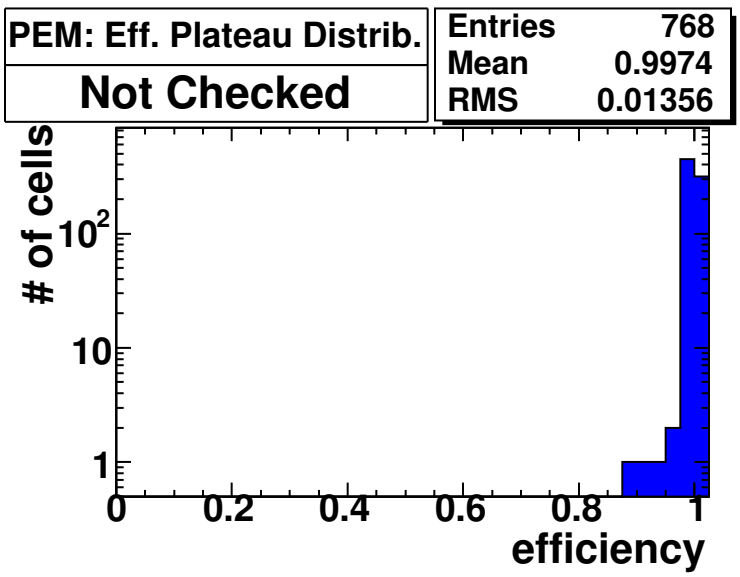
ASD Time Window is
540 ns < CEM t_0 < 620 ns
540 ns < PEM t_0 < 620 ns
units for CEM: ADC counts * 0.01
units for PEM: ADC counts * 0.035

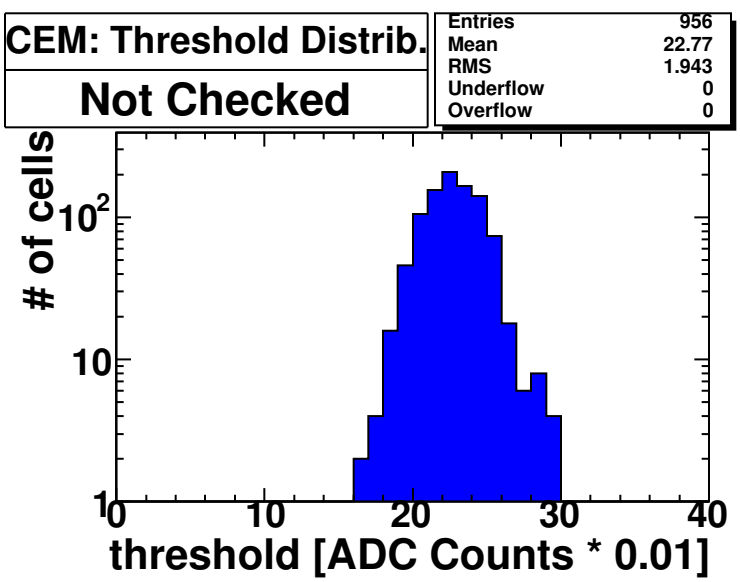


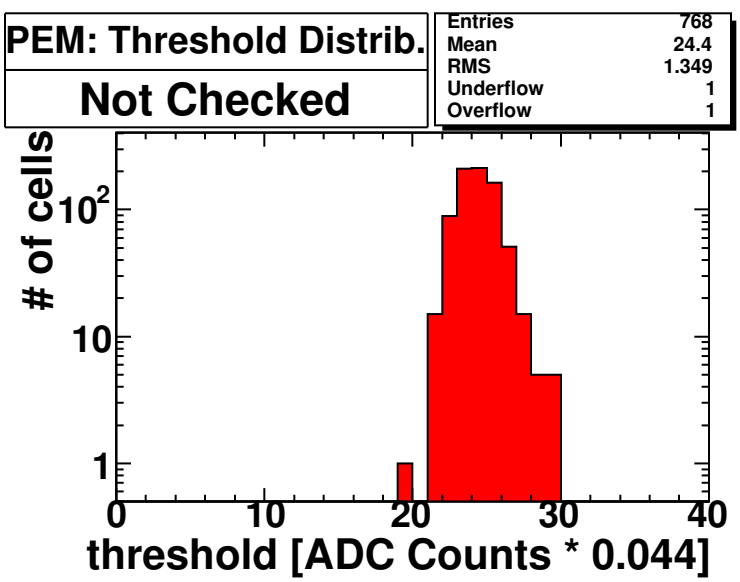
ObjectMon #10 TimeMonitor EMTD: Thresh., Eff. and Sigmas

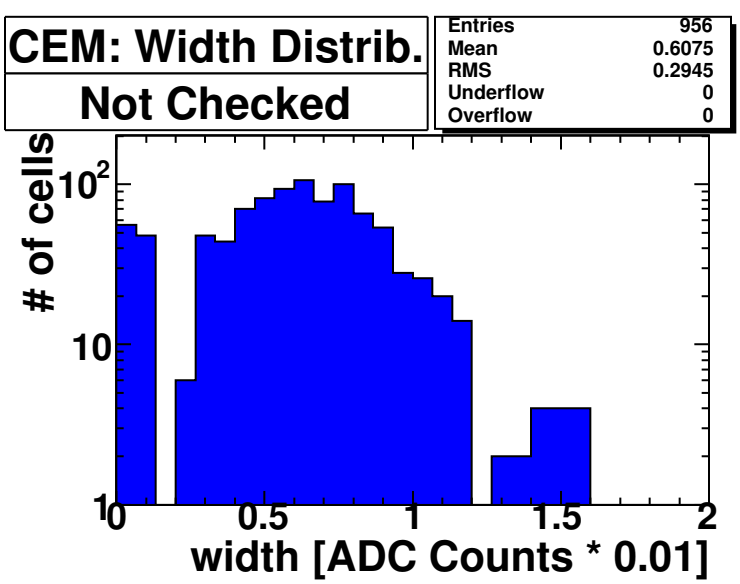
Run:200570 Event: 4479714 # of Events:64253 Time: Wed Jul 6 04:34:55 2005 Ref.Run:199620

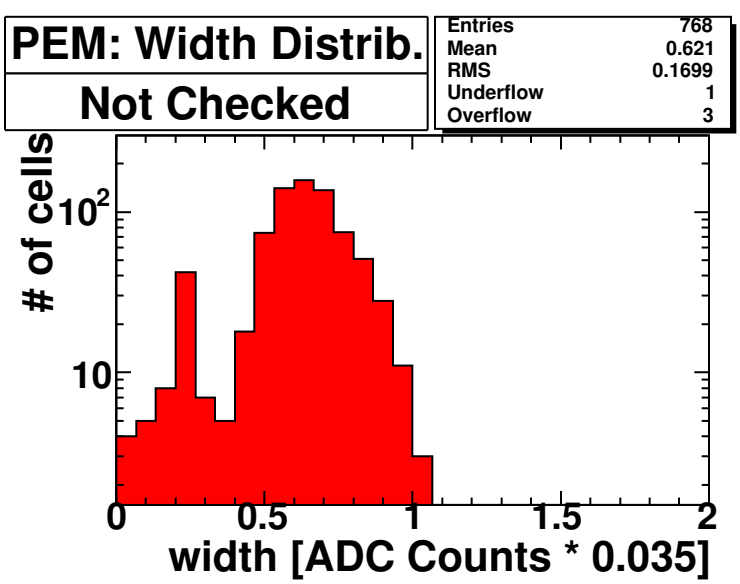












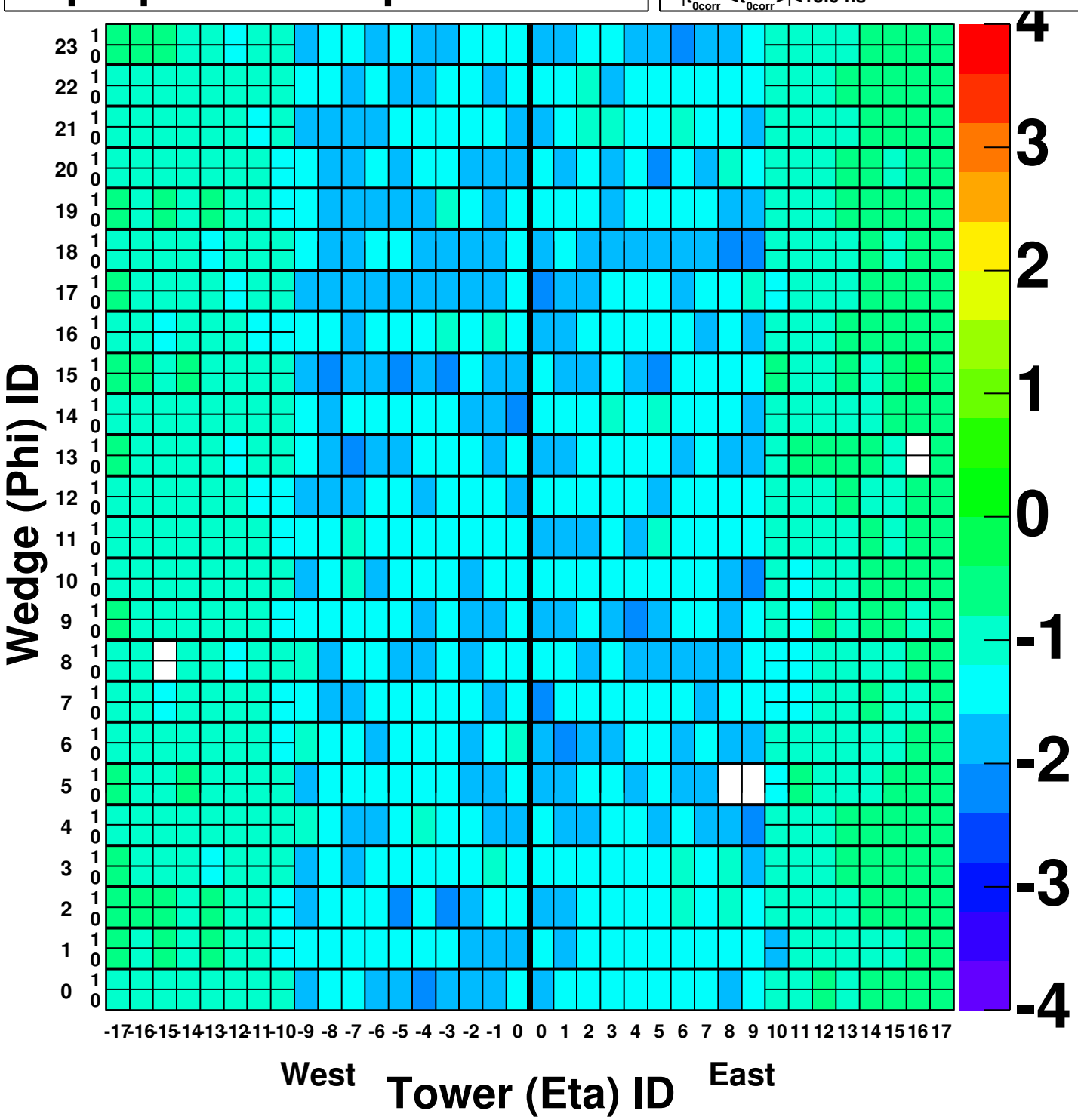
ObjectMon #14 TimeMonitor EMTD: Mean Corrected t0

Run:200570 Event: 4479714 # of Events:64253 Time: Wed Jul 6 04:34:55 2005 Ref.Run:199620

EMTDC: Mean Corrected t_0

purple or red - problems

ASD Time Window is
540 ns < CEM t_0 < 620 ns
540 ns < PEM t_0 < 620 ns
Eeven+Eodd > 0.20 GeV
$|t_{0corr}-\langle t_{0corr}\rangle|<15.0$ ns



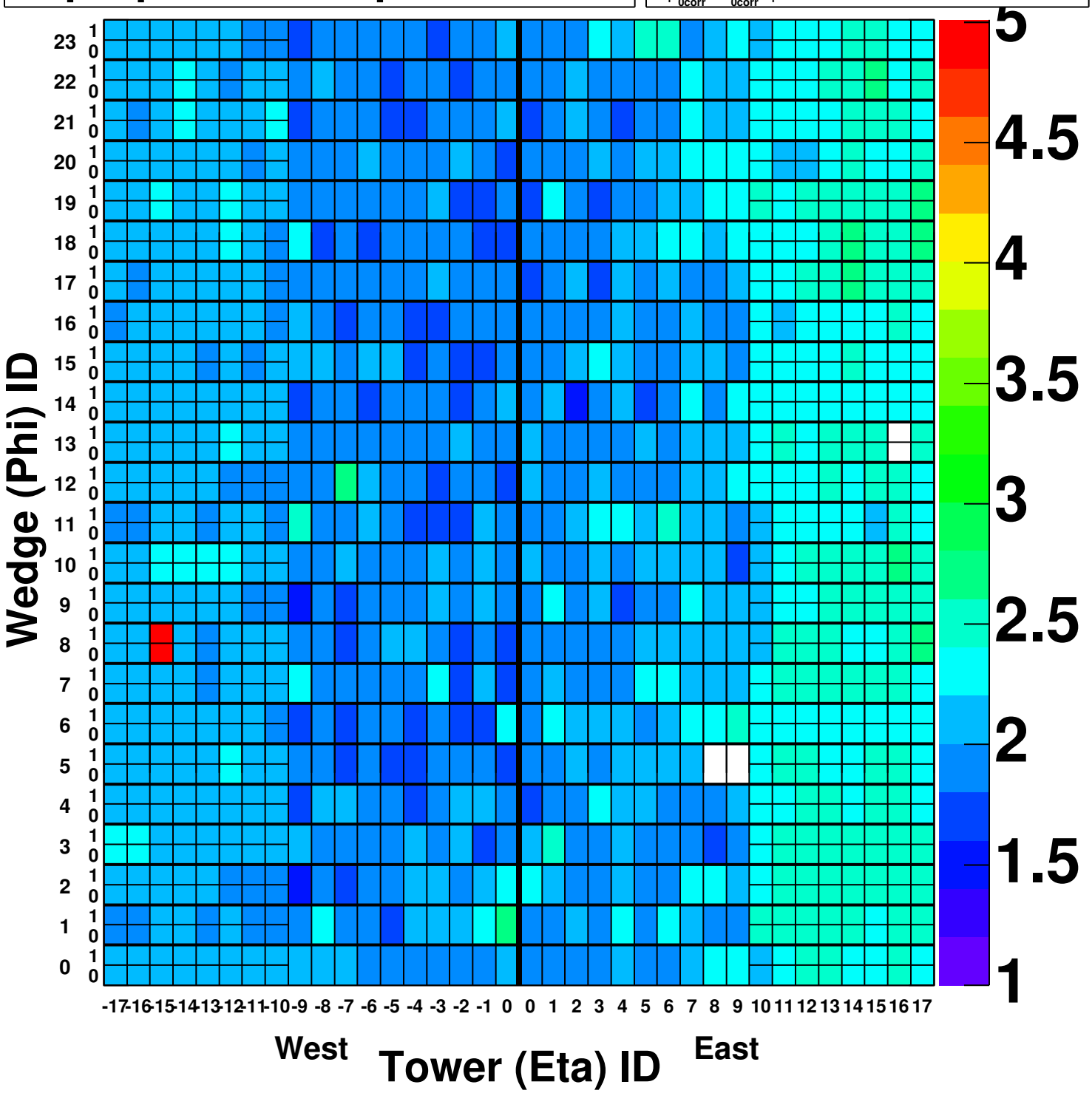
ObjectMon #15 TimeMonitor EMTD: RMS for Corrected t0

Run:200570 Event: 4479714 # of Events:64253 Time: Wed Jul 6 04:34:55 2005 Ref.Run:199620

EMTDC: Corrected t_0 RMS

purple or red - problems

ASD Time Window is
540 ns < CEM t_0 < 620 ns
540 ns < PEM t_0 < 620 ns
Eeven+Eodd > 0.20 GeV
$|t_{0corr}-\langle t_{0corr}\rangle|<15.0$ ns



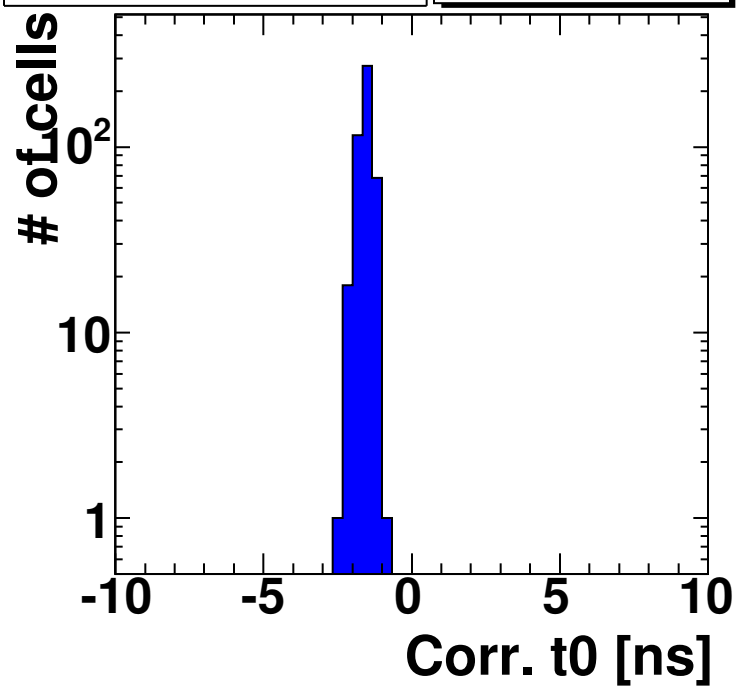
ObjectMon #18 TimeMonitor EMTD: Corrected t0 and RMS

Run:200570 Event: 4479714 # of Events:64253 Time: Wed Jul 6 04:34:55 2005 Ref.Run:199620

CEM: Corr. t0 Distrib.

Not Checked

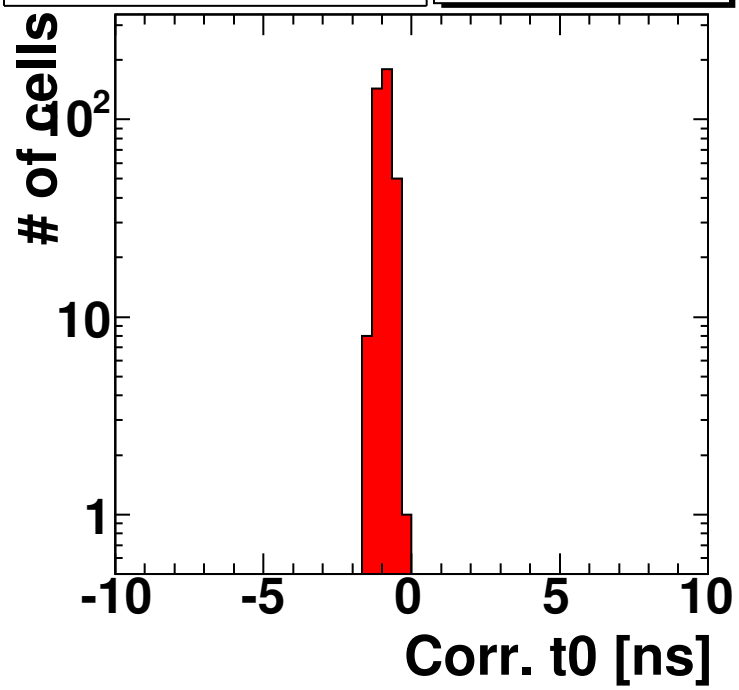
Entries	478
Mean	-1.561
RMS	0.227
Underflow	0
Overflow	0



PEM: Corr. t0 Distrib.

Not Checked

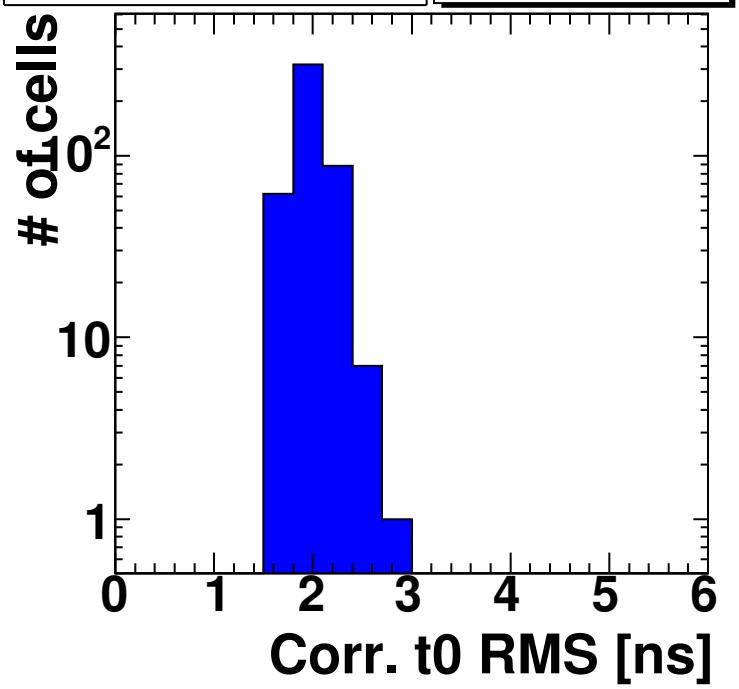
Entries	384
Mean	-0.9224
RMS	0.2157
Underflow	2
Overflow	0



CEM: Corr. t0 RMS Distrib.

Not Checked

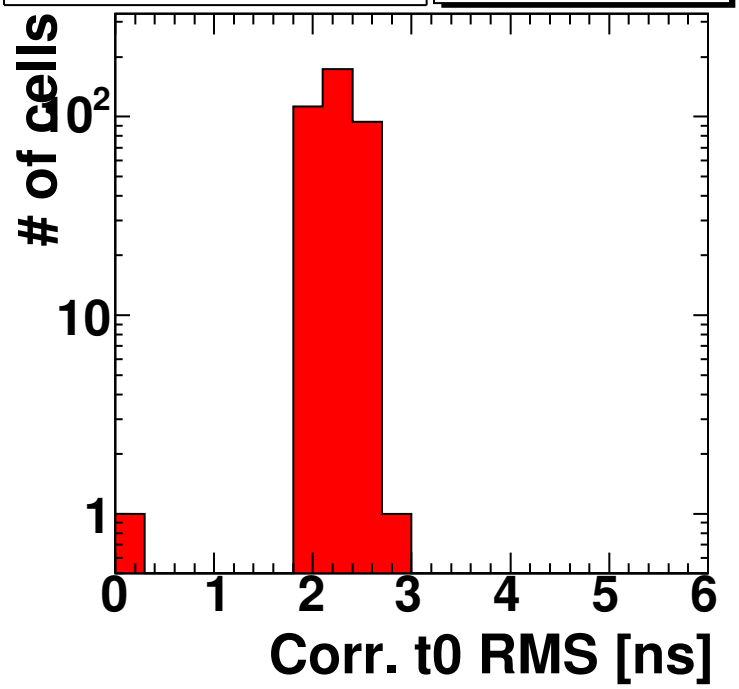
Entries	478
Mean	1.97
RMS	0.1722
Underflow	0
Overflow	0



PEM: Corr. t0 RMS Distrib.

Not Checked

Entries	384
Mean	2.233
RMS	0.2198
Underflow	0
Overflow	1



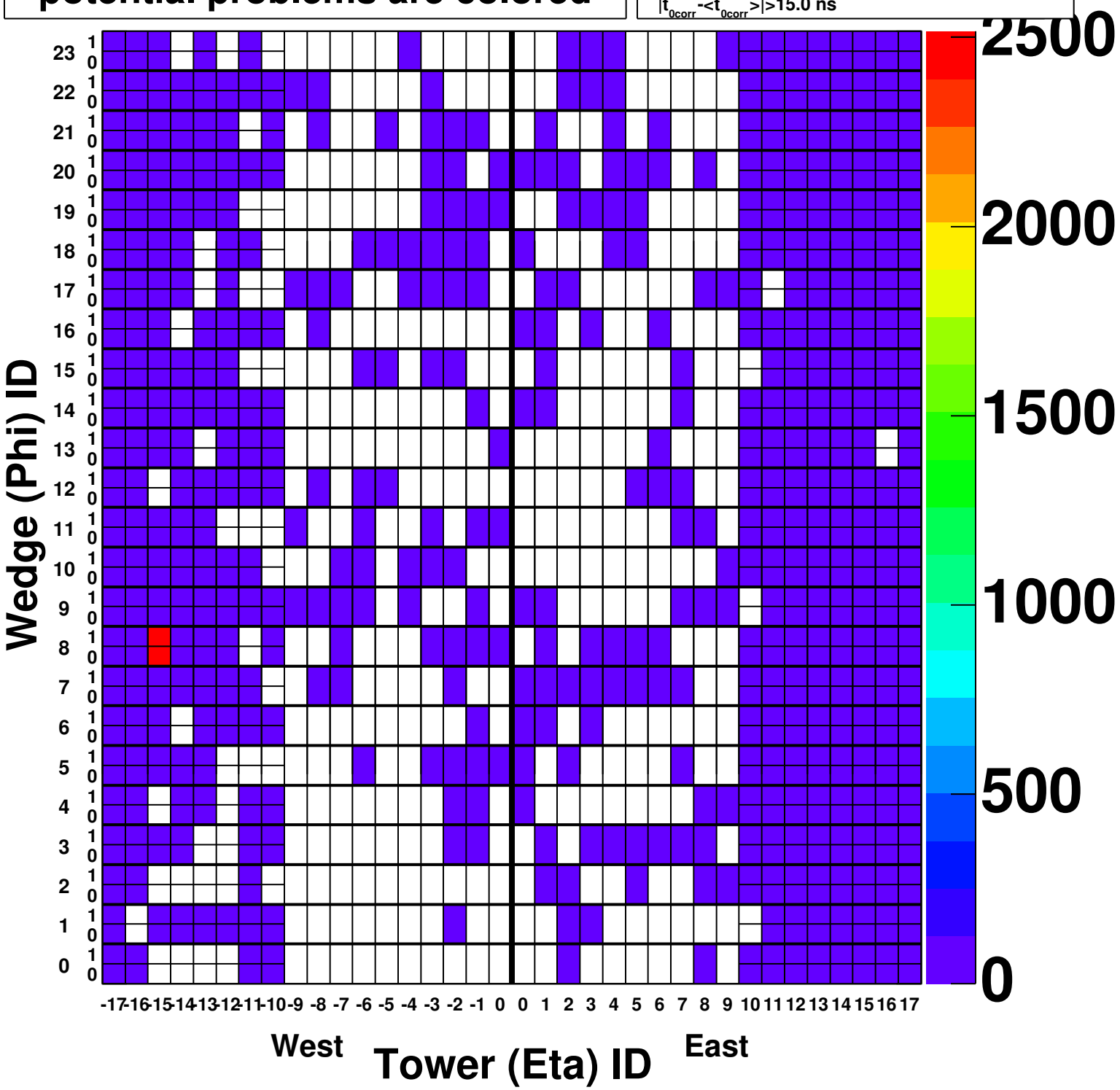
ObjectMon #19 TimeMonitor EMTD: Corr. t0 Far From Mean

Run:200570 Event: 4479714 # of Events:64253 Time: Wed Jul 6 04:34:55 2005 Ref.Run:199620

EMTDC: Hits Far From Corr. <t0>

potential problems are colored

ASD Time Window is
540 ns < CEM t_0 < 620 ns
540 ns < PEM t_0 < 620 ns
Eeven+Eodd > 0.2 GeV
$|t_{0corr}-\langle t_{0corr}\rangle|>15.0$ ns



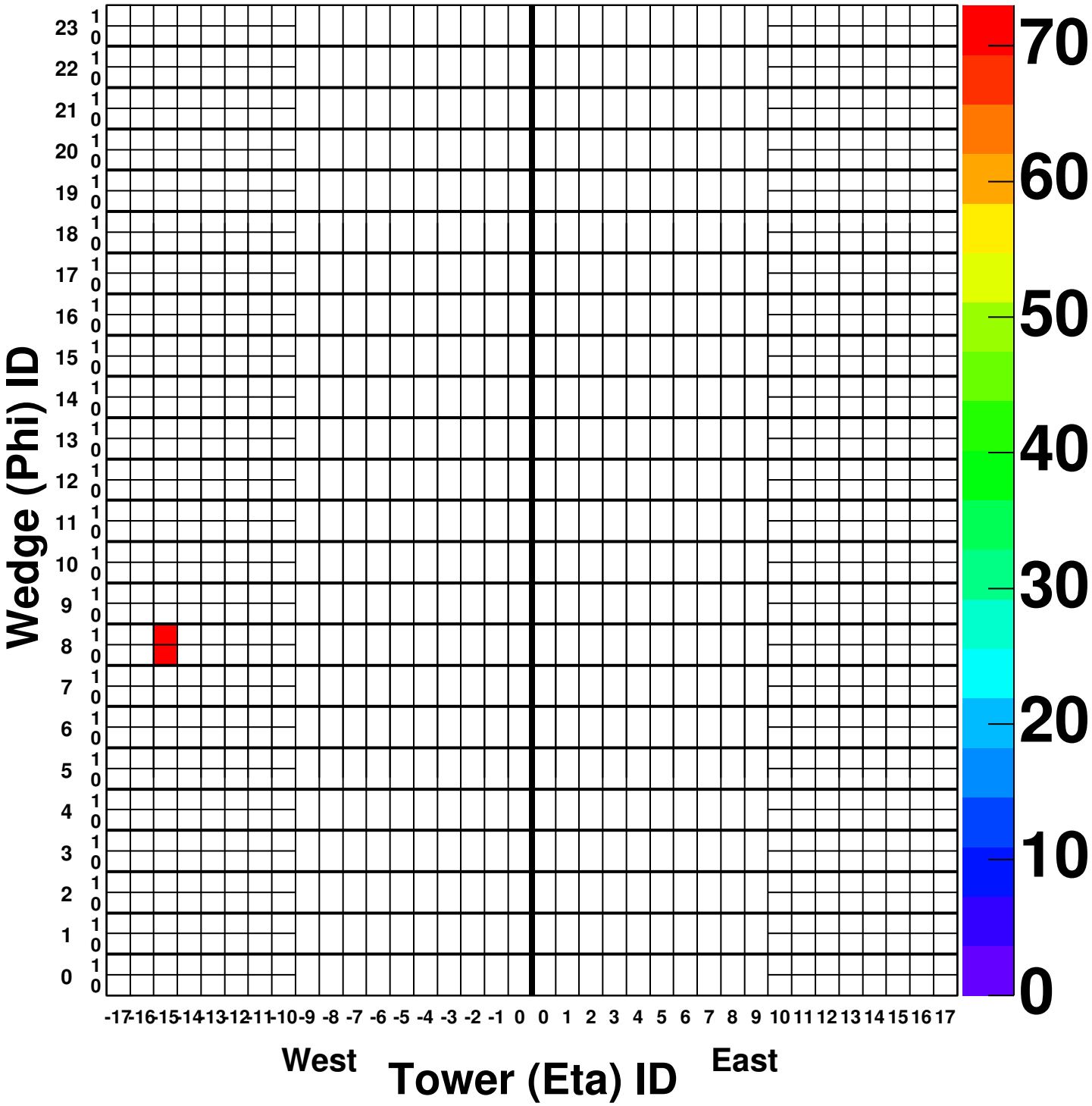
ObjectMon #11 TimeMonitor EMTD: Fake Firings

Run:200570 Event: 4479714 # of Events:64253 Time: Wed Jul 6 04:34:55 2005 Ref.Run:199620

EMTDC: Fake Firings Occupancy

potential problems are colored

Energy range [GeV]:
Eeven+Eodd < 0.20
ASD Time Window is
540 ns < CEM t_0 < 620 ns
540 ns < PEM t_0 < 620 ns



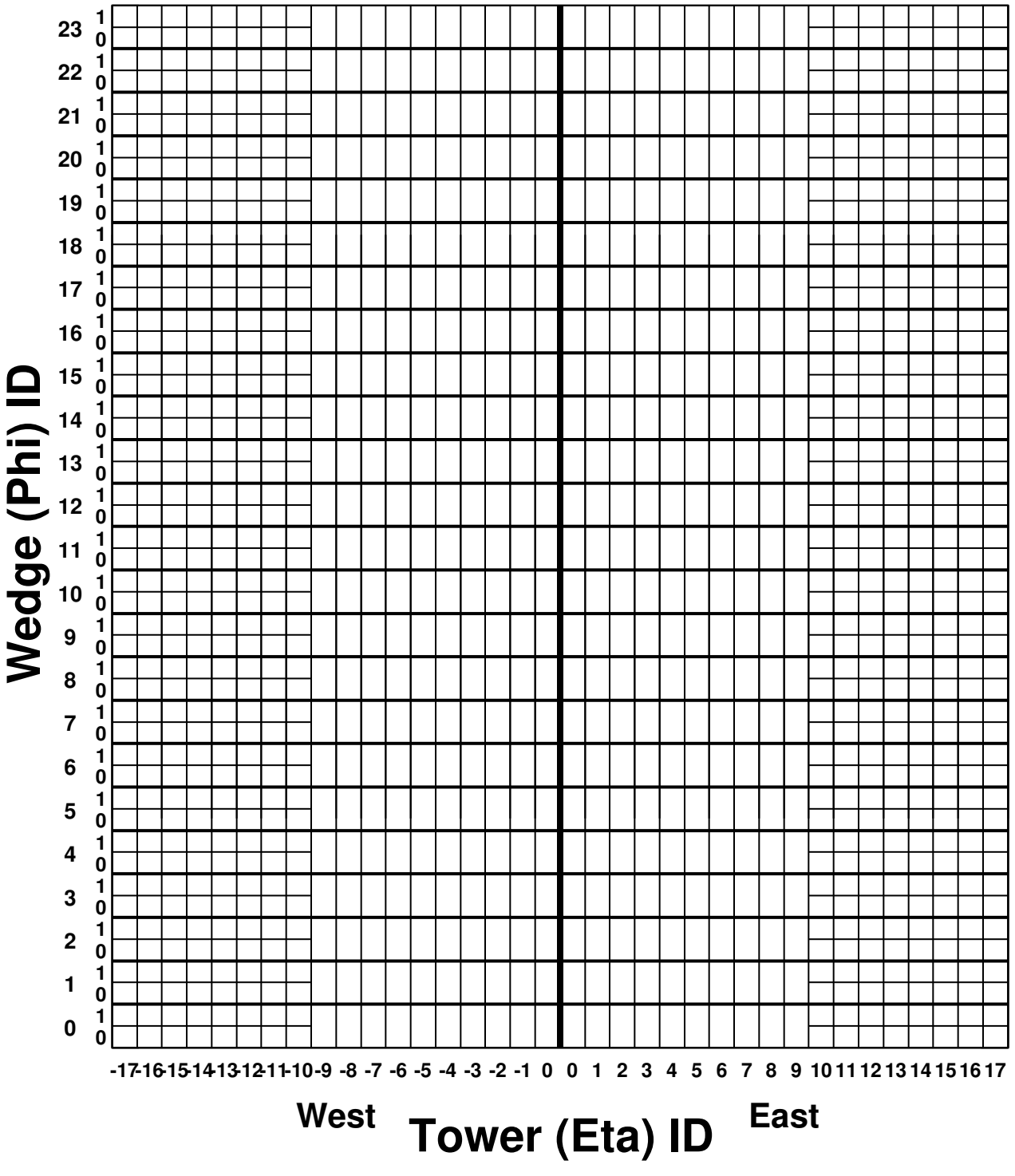
ObjectMon #17 TimeMonitor EMTD: Multiple Firings & Ok Width

Run:200570 Event: 4479714 # of Events:64253 Time: Wed Jul 6 04:34:55 2005 Ref.Run:199620

EMTDC: Multiply Ok Width Firing Towers

potential problems are colored

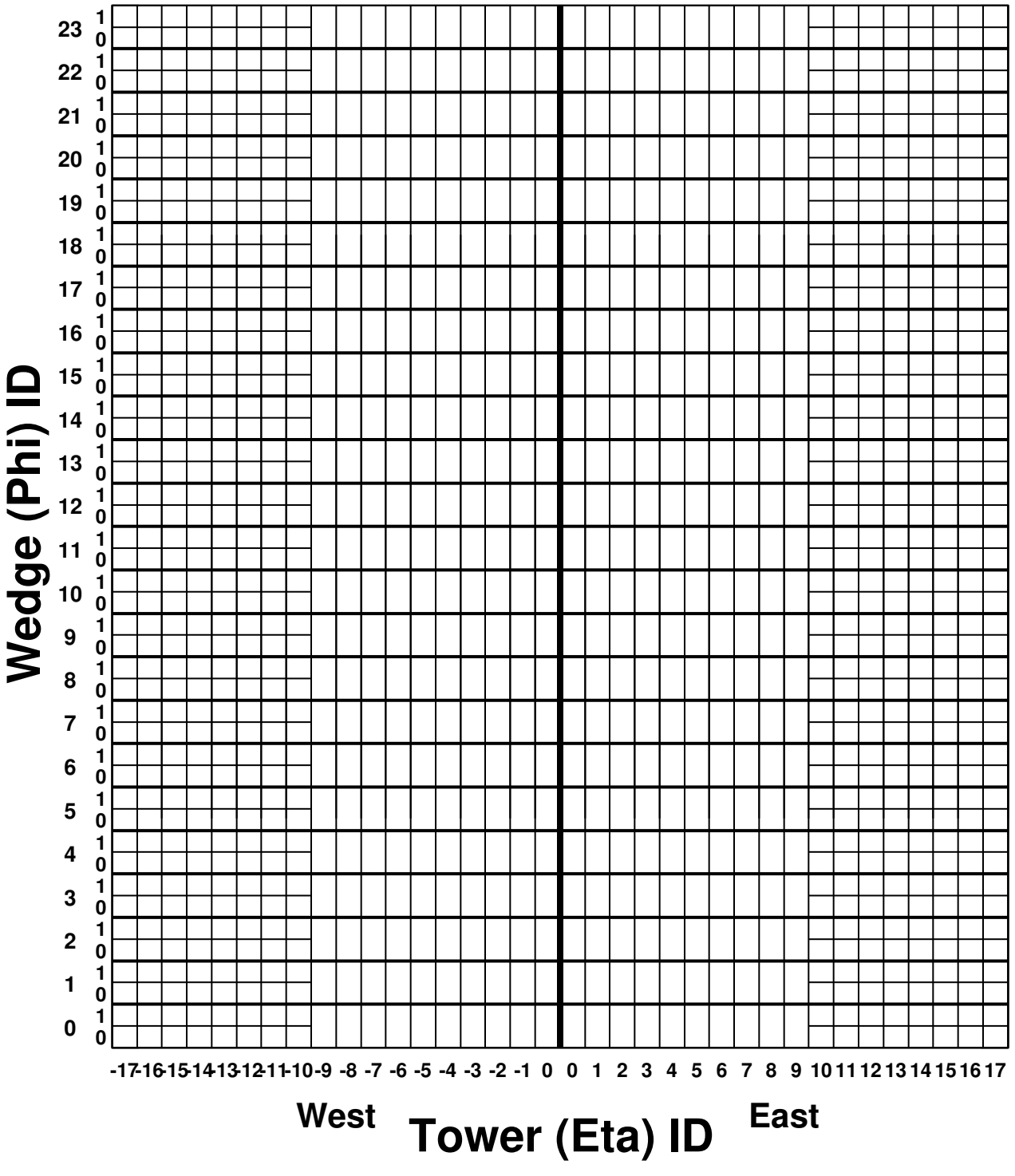
ASD Time Window is
540 ns < CEM t_0 < 620 ns
540 ns < PEM t_0 < 620 ns
20 < Hit width < 200 ns
Tower Energy > 0 GeV



ObjectMon #16 TimeMonitor EMTD: Multiple Firings & Low Width

Run:200570 Event: 4479714 # of Events:64253 Time: Wed Jul 6 04:34:55 2005 Ref.Run:199620

EMTDC: Multiply Low Width Firing Towers

potential problems are colored

ASD Time Window is
540 ns < CEM t_0 < 620 ns
540 ns < PEM t_0 < 620 ns
10 < Hit width < 20 ns
Tower Energy > 0 GeV