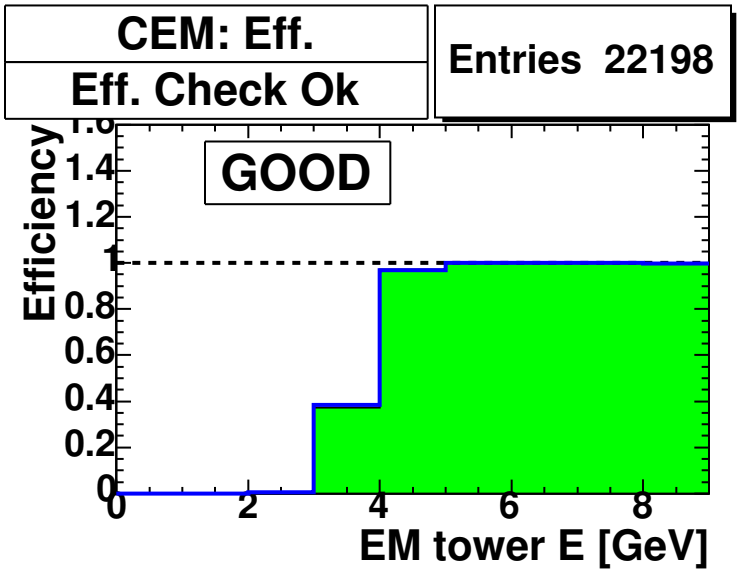
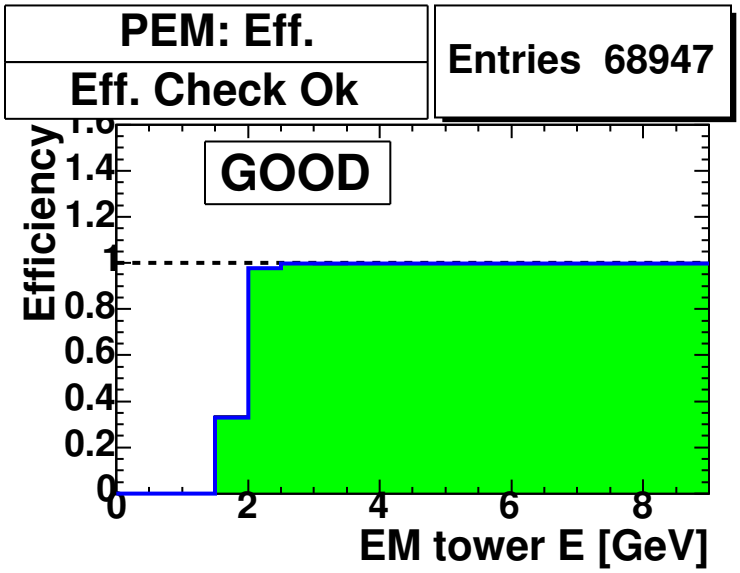
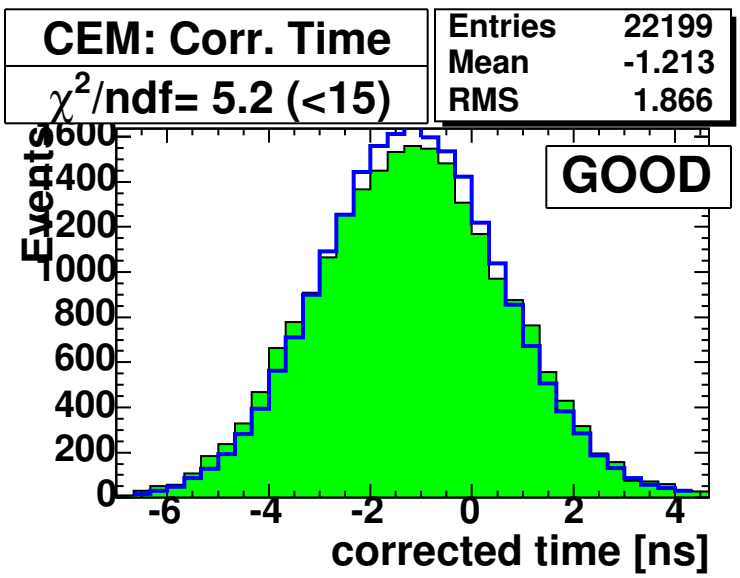
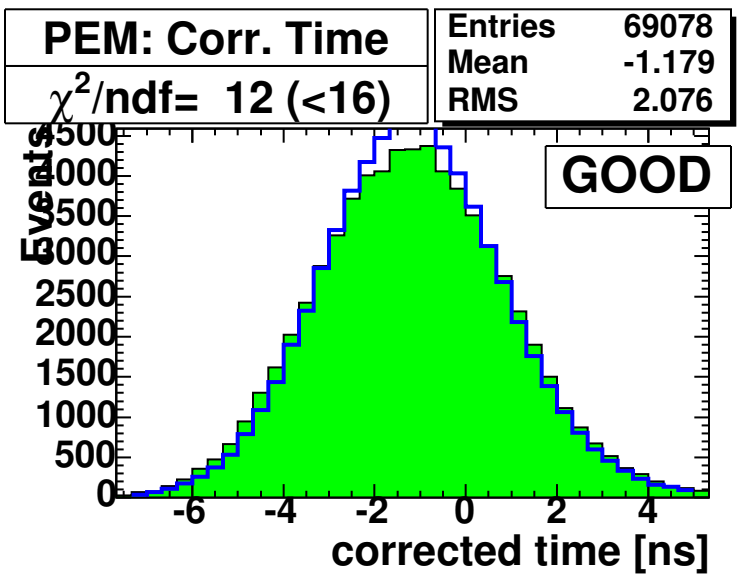
ObjectMon #4 TimeMonitor EMTDC Timing

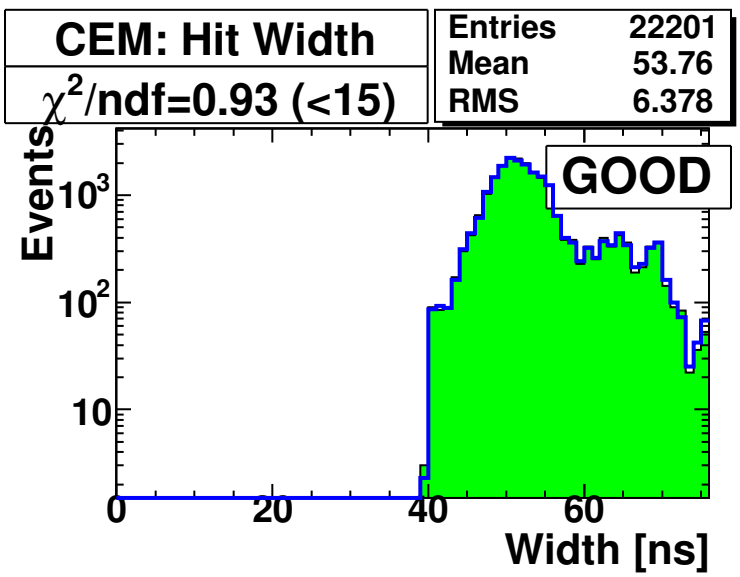
Run:196988 Event: 762508 # of Events:14983 Time: Tue Apr 26 12:43:17 2005 Ref.Run:196352

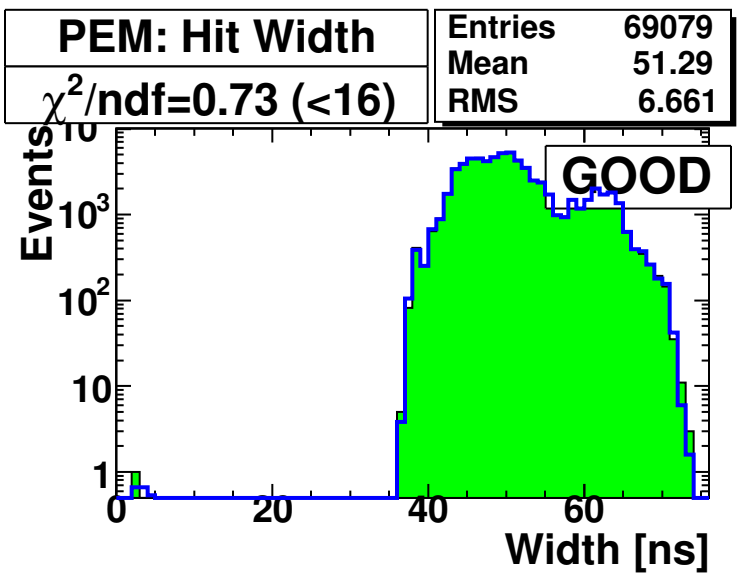












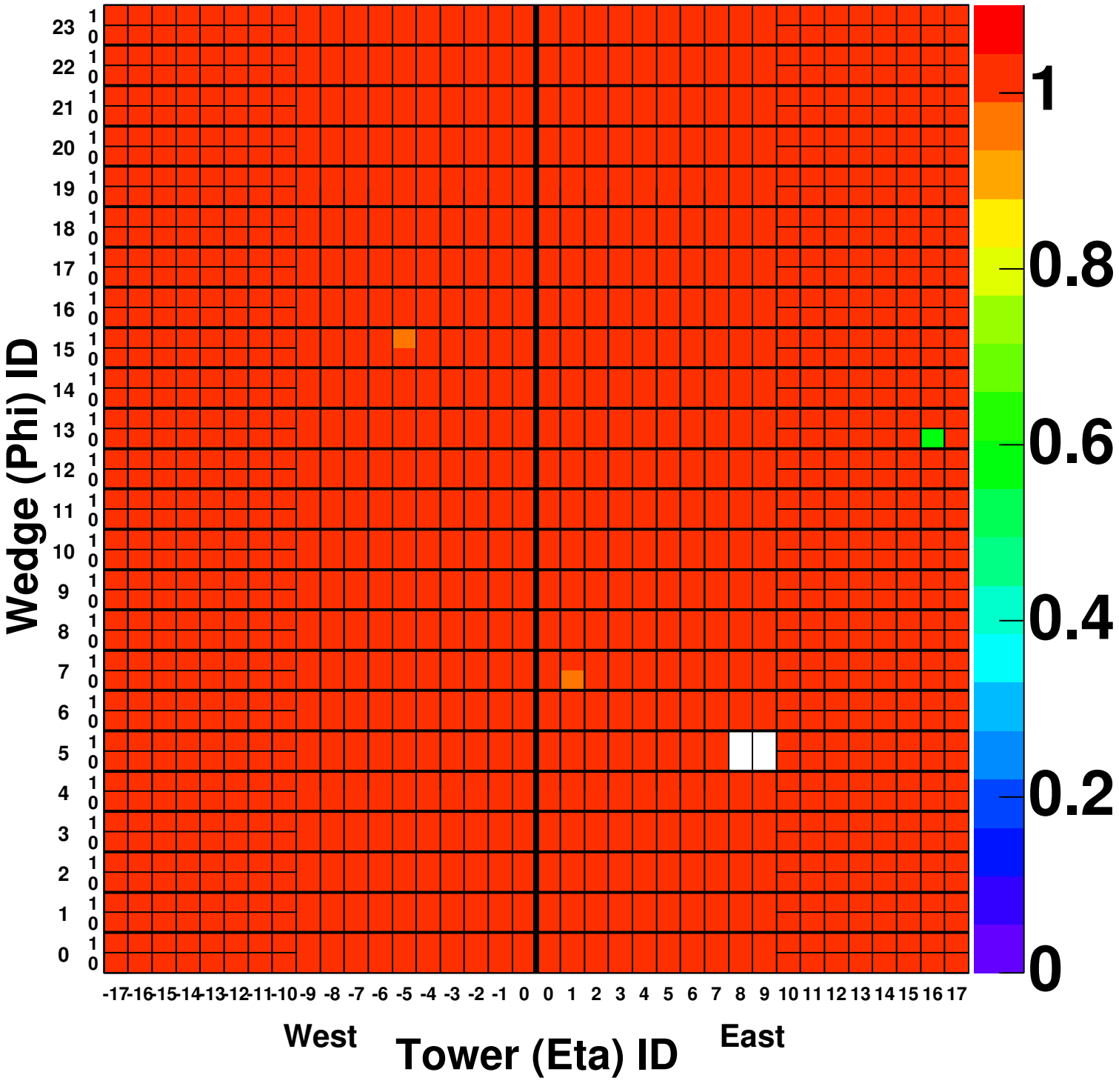
ObjectMon #9 TimeMonitor EMTD: 100% Eff 2D

Run:196988 Event: 762508 # of Events:14983 Time: Tue Apr 26 12:43:17 2005 Ref.Run:196352

EMTDC: Eff. of EM Phototubes in 100% range

not red are BAD

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



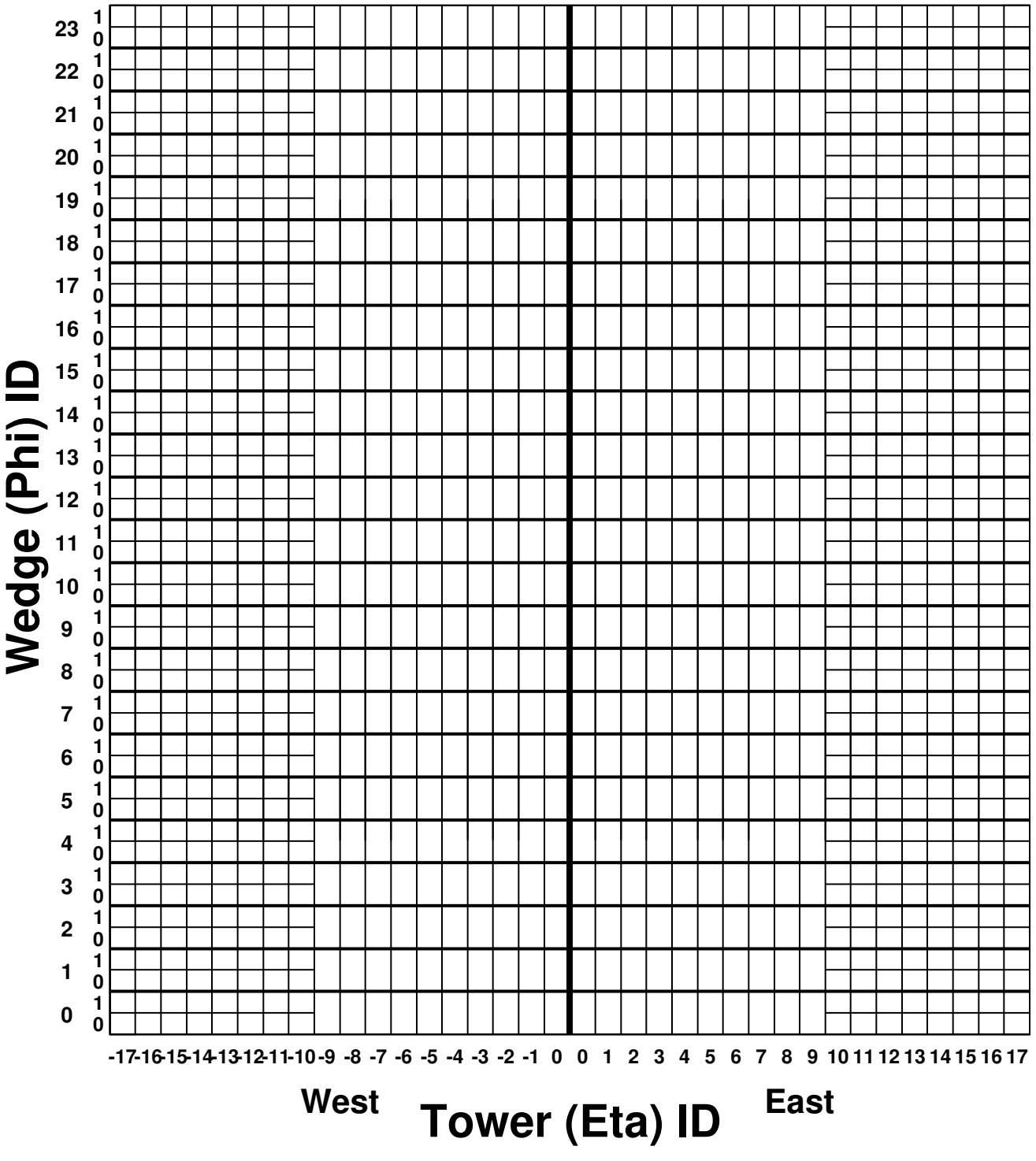
ObjectMon #8 TimeMonitor EMTD: 50% Eff 2D

Run:196988 Event: 762508 # of Events:14983 Time: Tue Apr 26 12:43:17 2005 Ref.Run:196352

EMTDC: Eff. of EM Phototube in 50% range

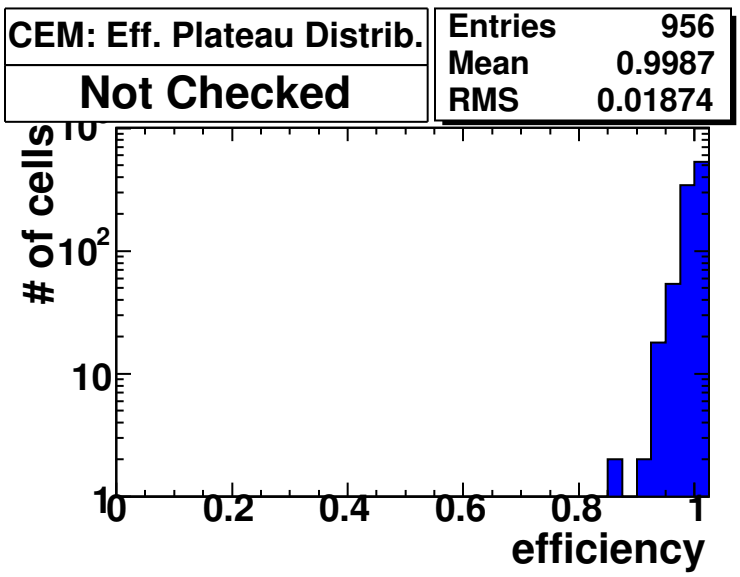
blue - BAD green - GOOD

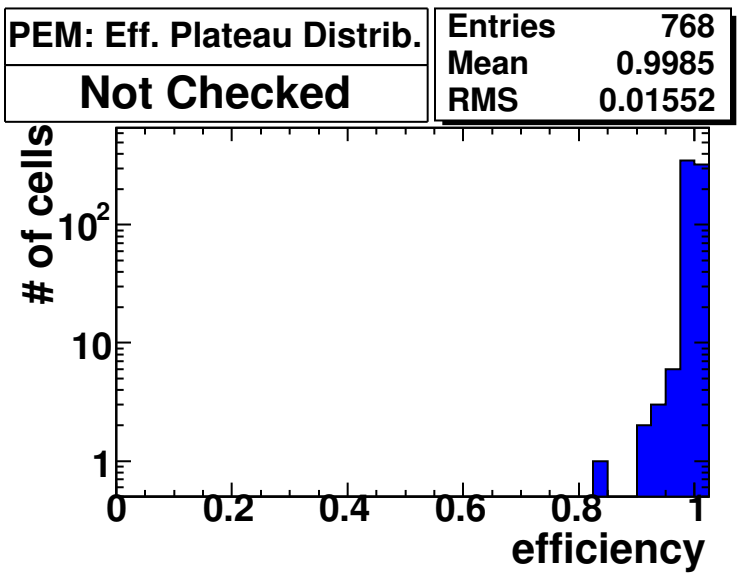
50% Energy range [GeV]:
CEM: 2.0 ≤ PMTE < 4.0
PEM: 0.7 ≤ PMTE < 1.7

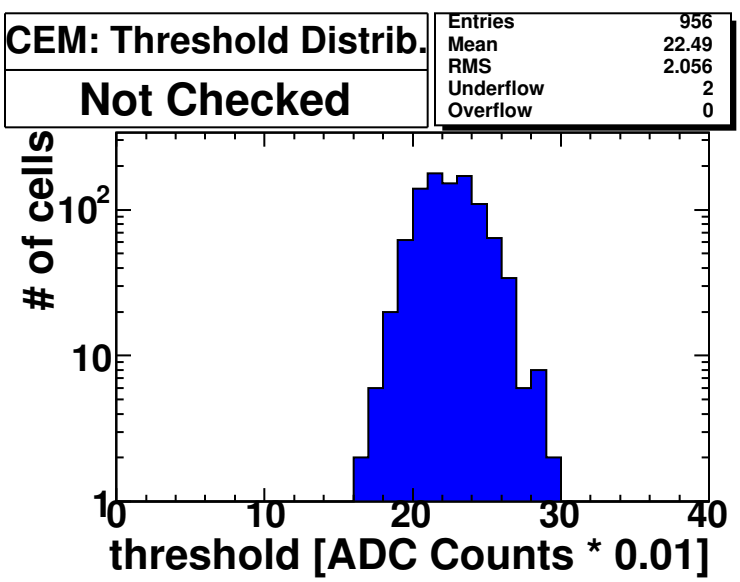


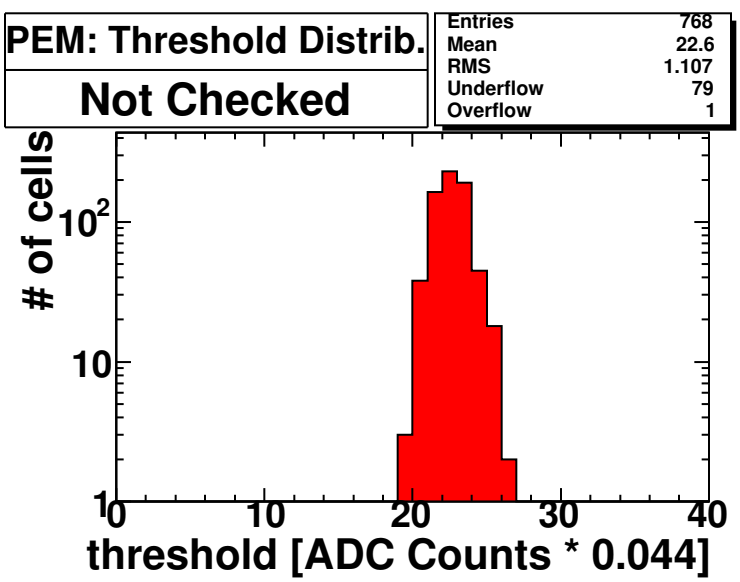
ObjectMon #10 TimeMonitor EMTD: Thresh., Eff. and Sigmas

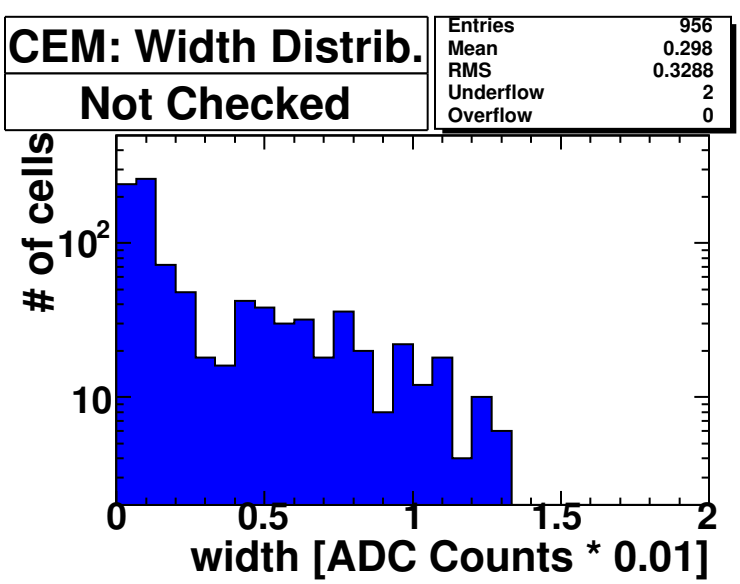
Run:196988 Event: 762508 # of Events:14983 Time: Tue Apr 26 12:43:17 2005 Ref.Run:196352

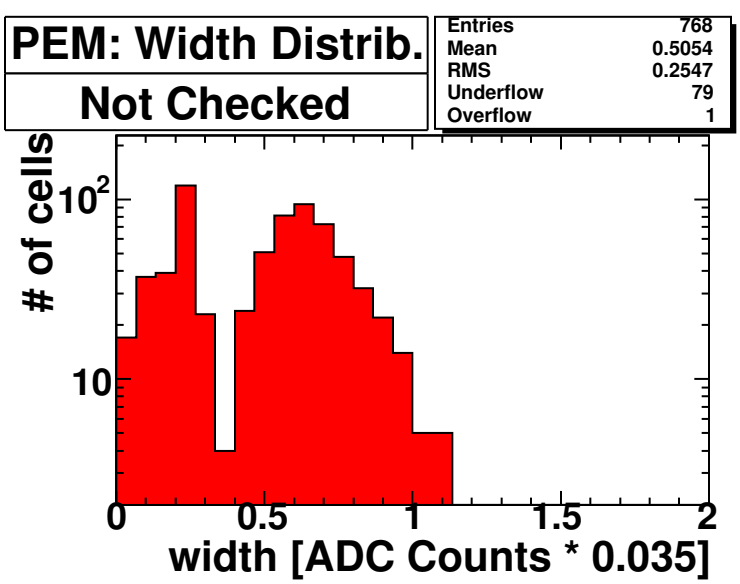












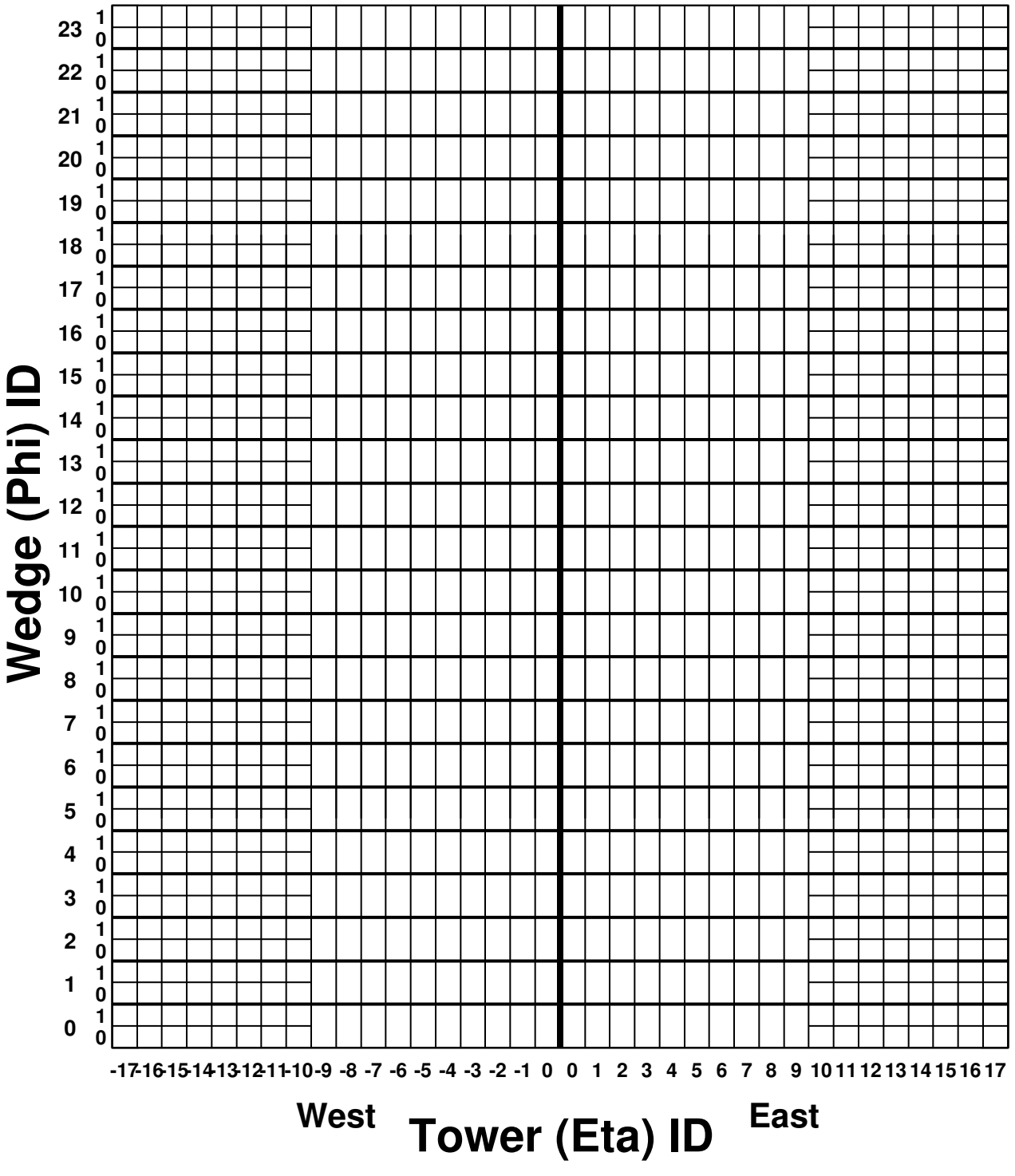
ObjectMon #11 TimeMonitor EMTD: Fake Firings

Run:196988 Event: 762508 # of Events:14983 Time: Tue Apr 26 12:43:17 2005 Ref.Run:196352

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



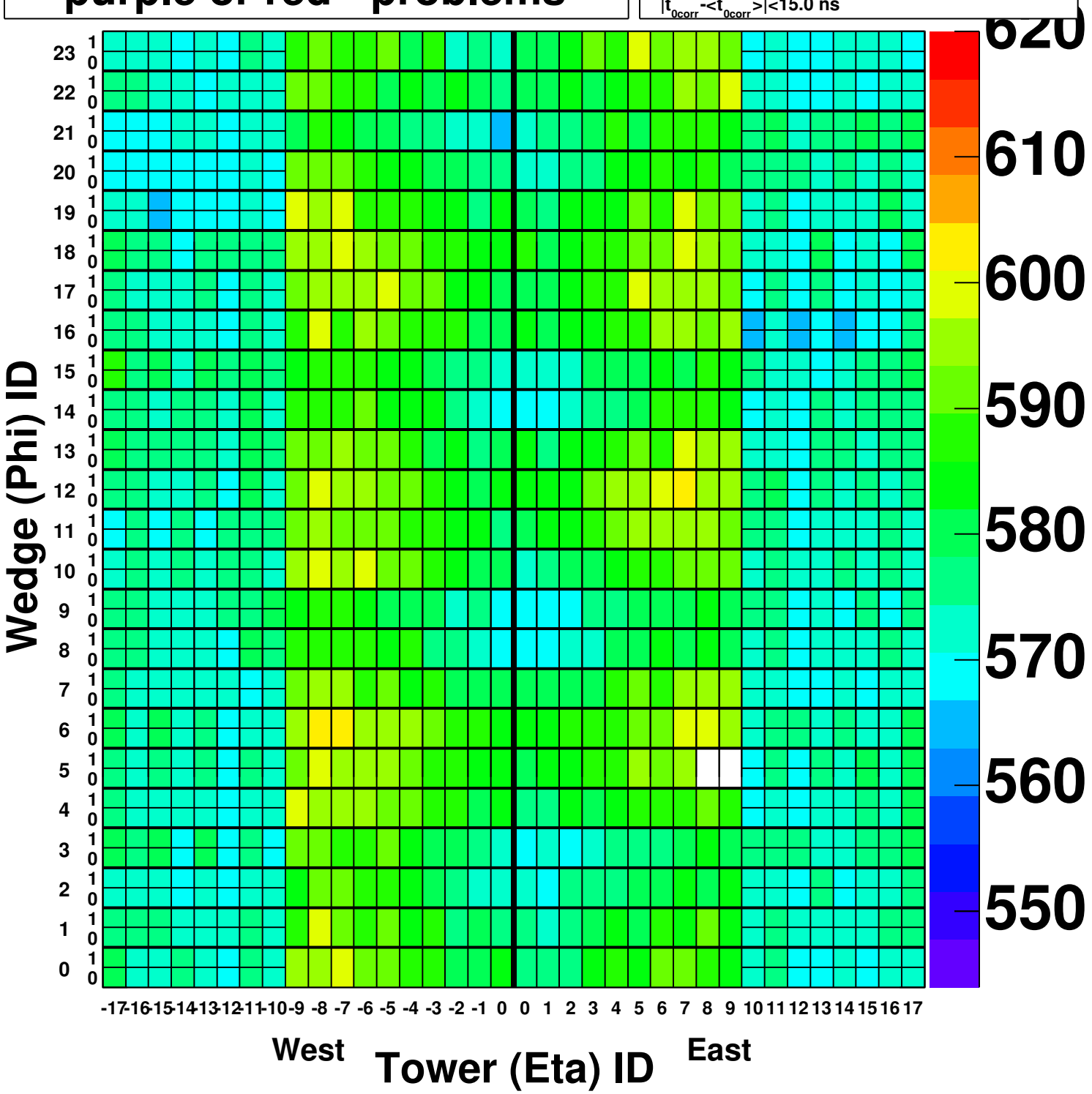
ObjectMon #12 TimeMonitor EMTD: Mean Raw t0

Run:196988 Event: 762508 # of Events:14983 Time: Tue Apr 26 12:43:17 2005 Ref.Run:196352

EMTDC: Mean Raw 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



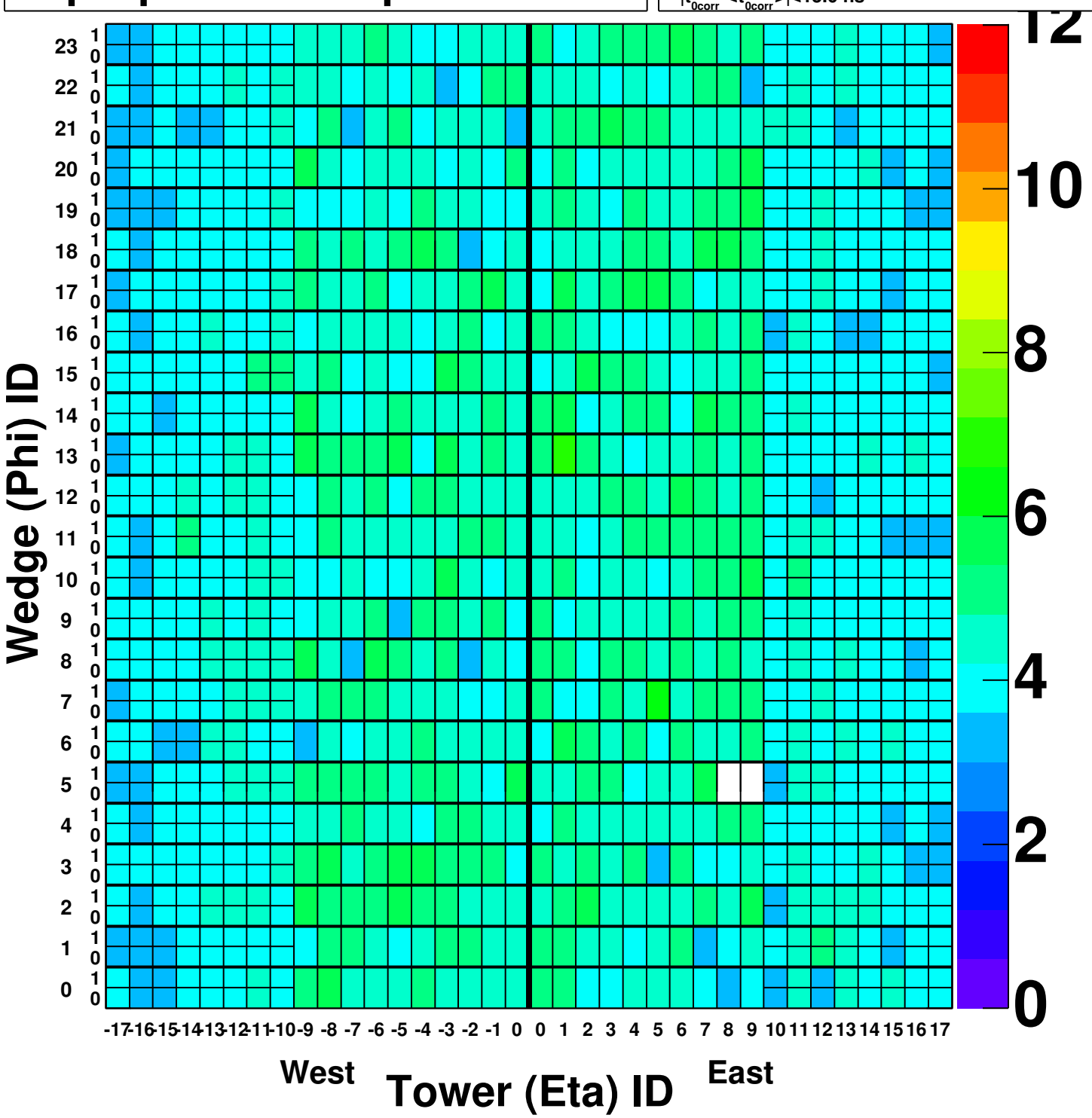
ObjectMon #13 TimeMonitor EMTD: RMS for Raw t0

Run:196988 Event: 762508 # of Events:14983 Time: Tue Apr 26 12:43:17 2005 Ref.Run:196352

EMTDC: Raw 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



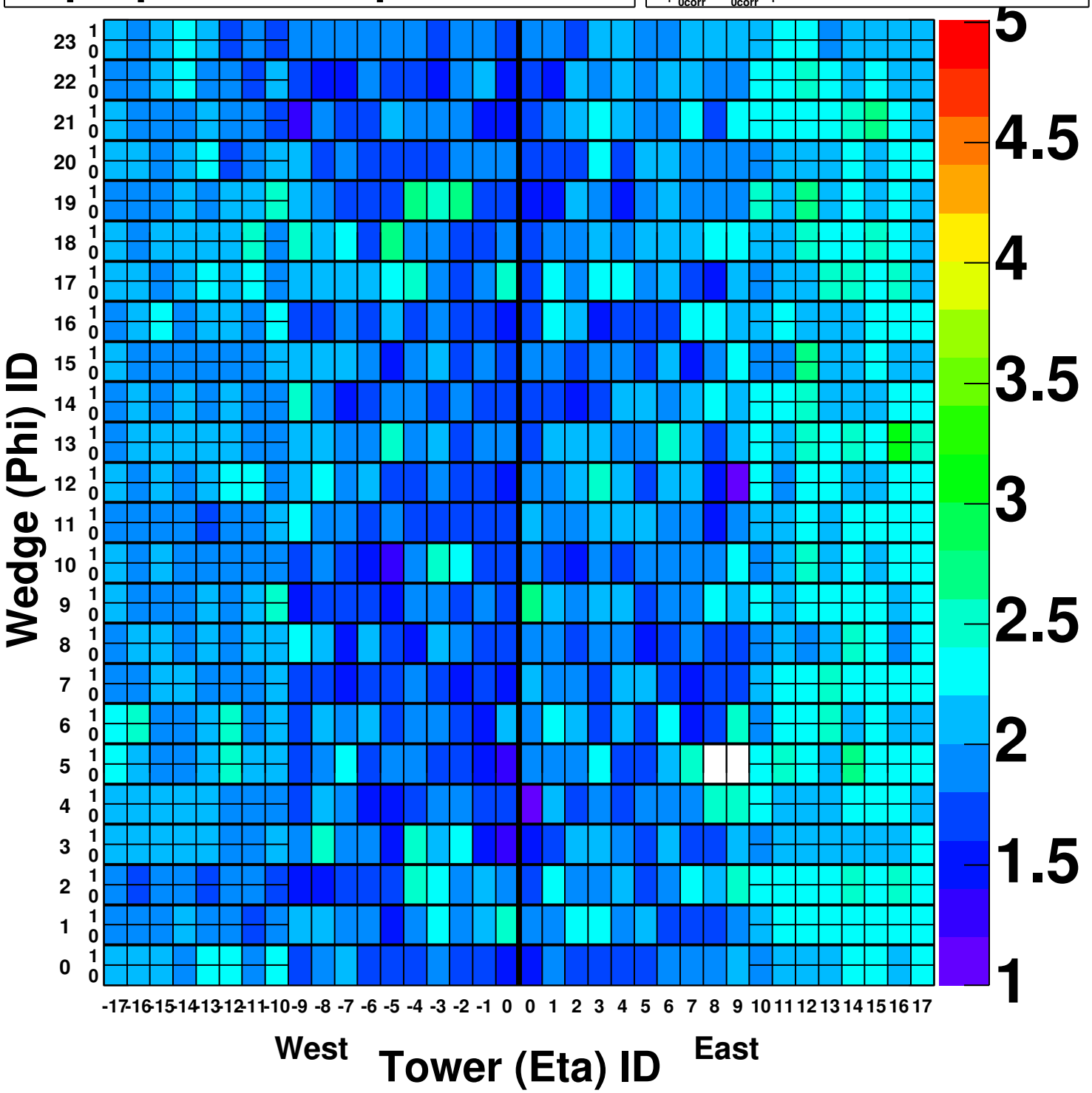
ObjectMon #15 TimeMonitor EMTD: RMS for Corrected t0

Run:196988 Event: 762508 # of Events:14983 Time: Tue Apr 26 12:43:17 2005 Ref.Run:196352

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
$|t_{0corr}-<t_{0corr}>|<15.0$ ns



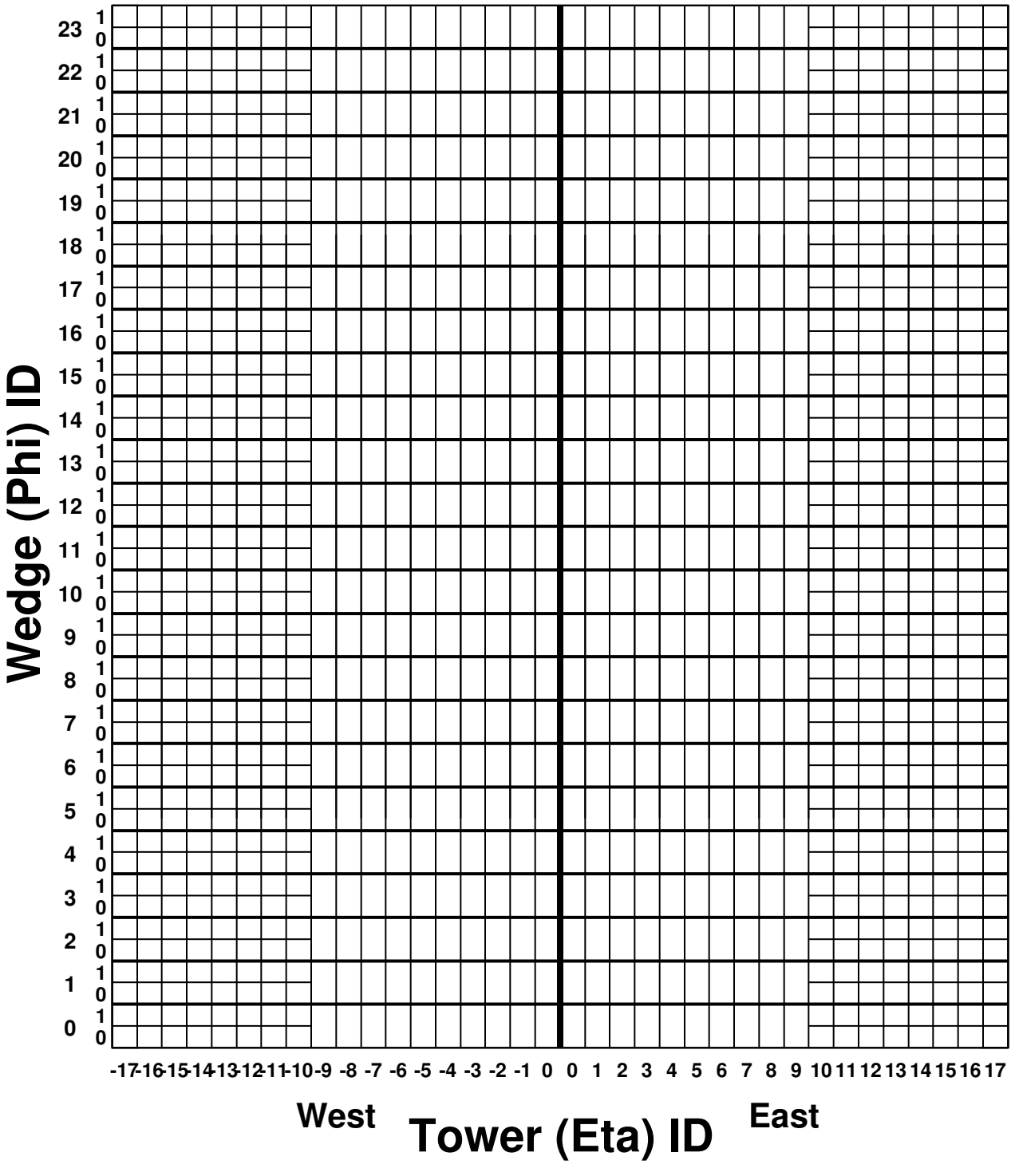
ObjectMon #17 TimeMonitor EMTD: Multiple Firings & Ok Width

Run:196988 Event: 762508 # of Events:14983 Time: Tue Apr 26 12:43:17 2005 Ref.Run:196352

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



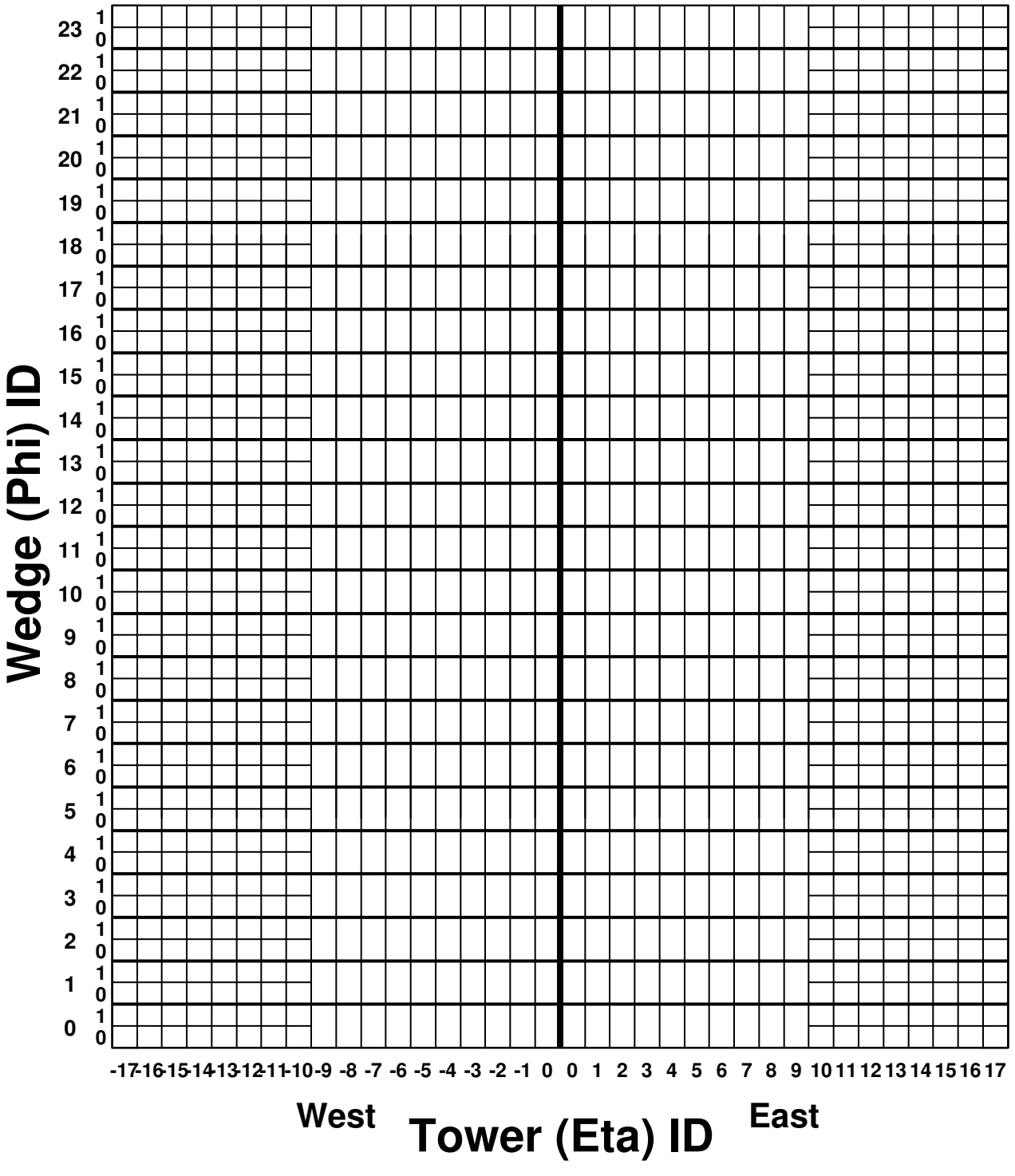
ObjectMon #16 TimeMonitor EMTD: Multiple Firings & Low Width

Run:196988 Event: 762508 # of Events:14983 Time: Tue Apr 26 12:43:17 2005 Ref.Run:196352

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



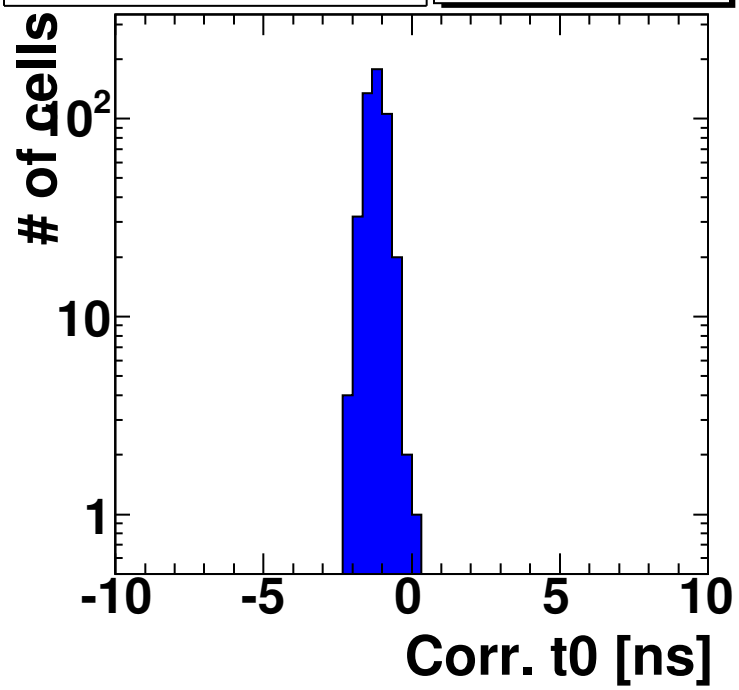
ObjectMon #18 TimeMonitor EMTD: Corrected t0 and RMS

Run:196988 Event: 762508 # of Events:14983 Time: Tue Apr 26 12:43:17 2005 Ref.Run:196352

CEM: Corr. t0 Distrib.

Not Checked

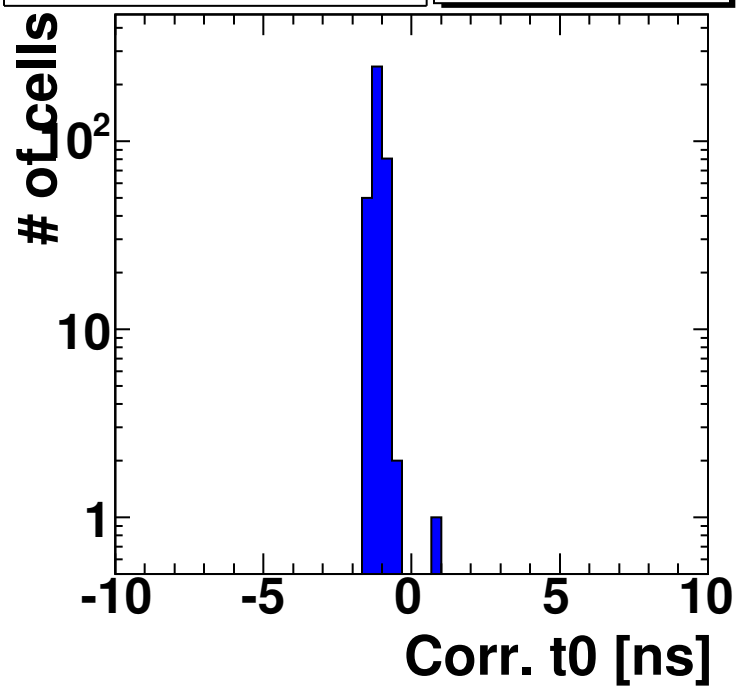
Entries	478
Mean	-1.203
RMS	0.3275
Underflow	0
Overflow	0



PEM: Corr. t0 Distrib.

Not Checked

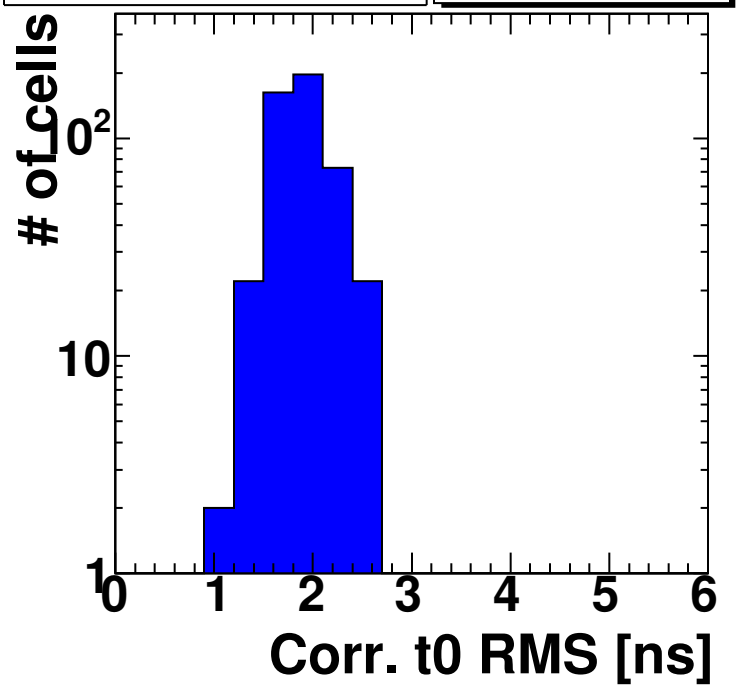
Entries	384
Mean	-1.13
RMS	0.2094
Underflow	0
Overflow	0



CEM: Corr. t0 RMS Distrib.

Not Checked

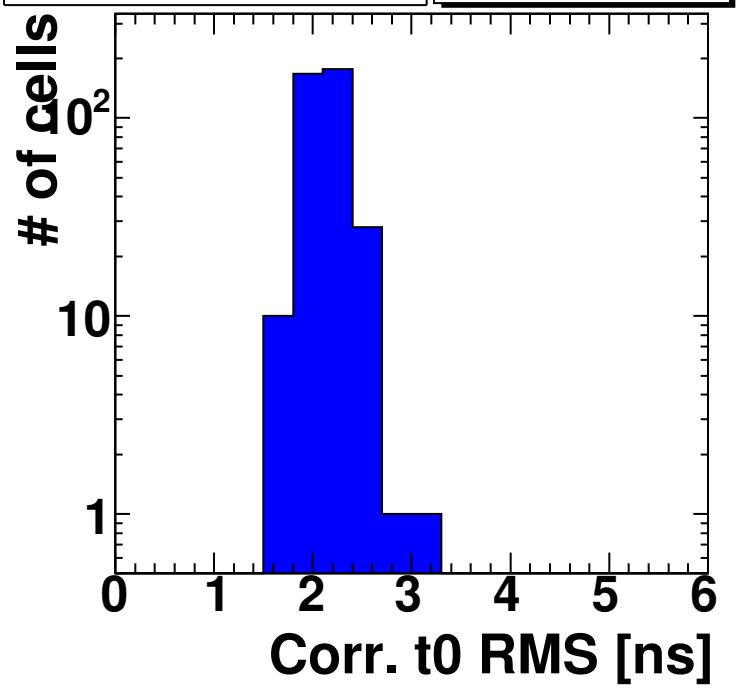
Entries	478
Mean	1.89
RMS	0.258
Underflow	0
Overflow	0



PEM: Corr. t0 RMS Distrib.

Not Checked

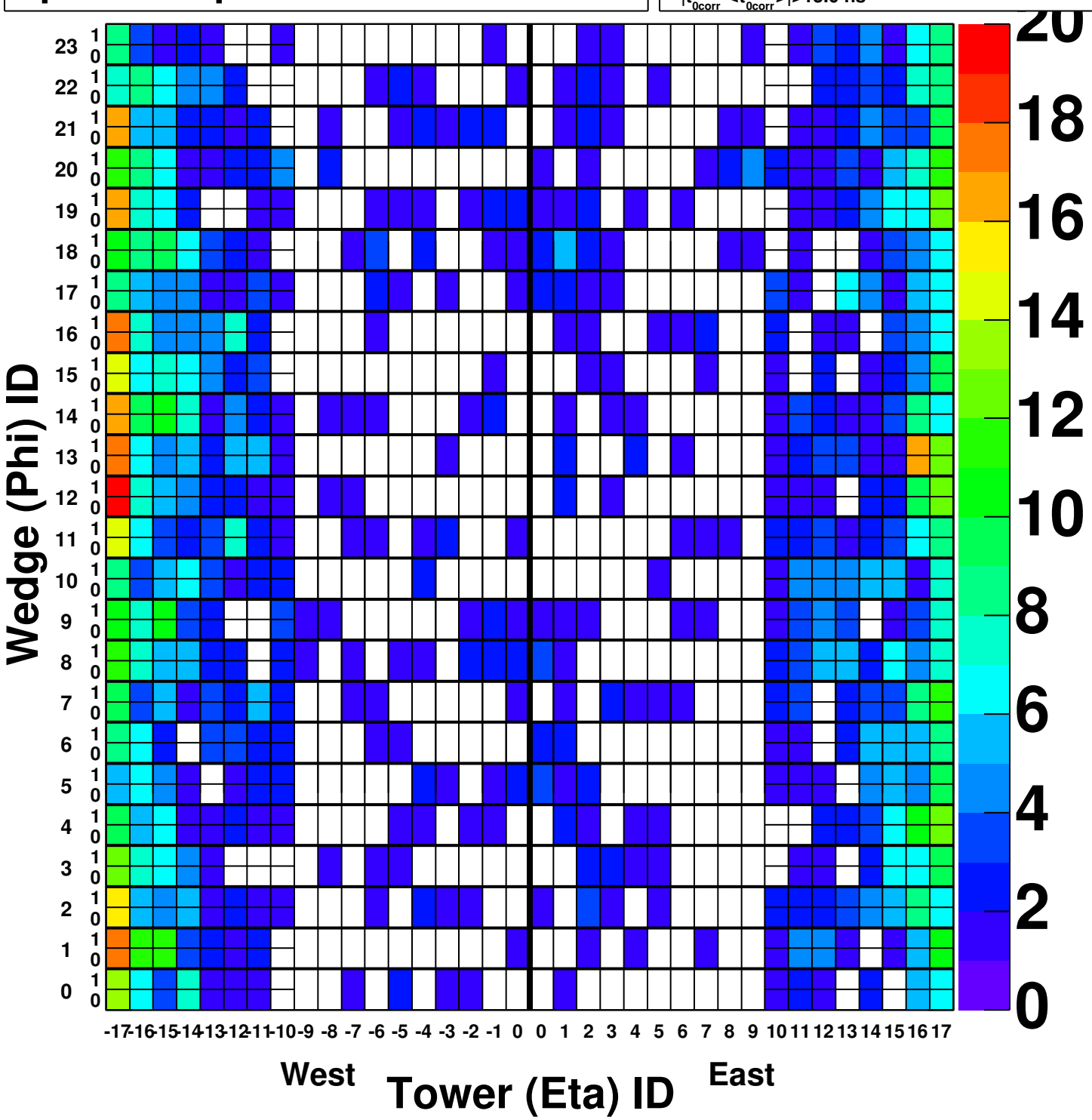
Entries	384
Mean	2.129
RMS	0.1994
Underflow	0
Overflow	0



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

Run:196988 Event: 762508 # of Events:14983 Time: Tue Apr 26 12:43:17 2005 Ref.Run:196352

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