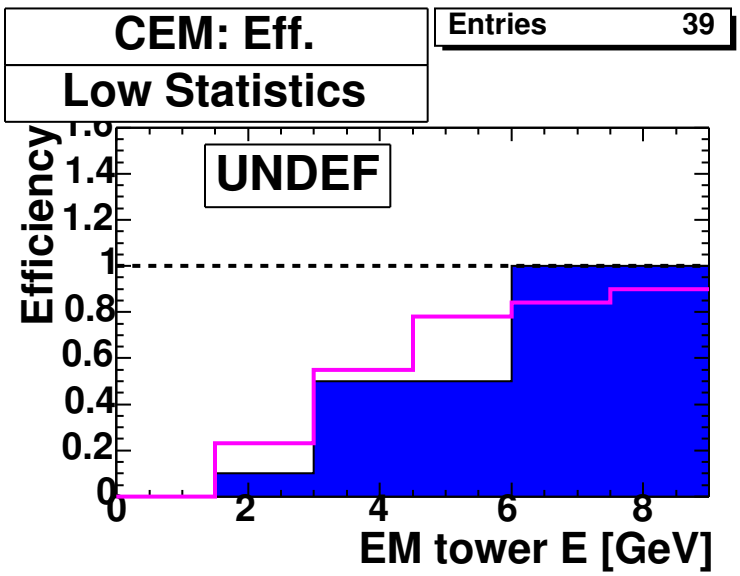
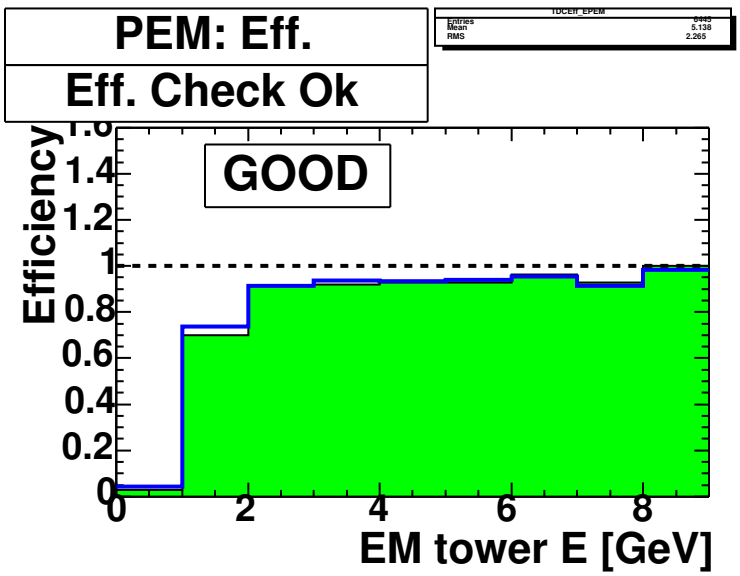
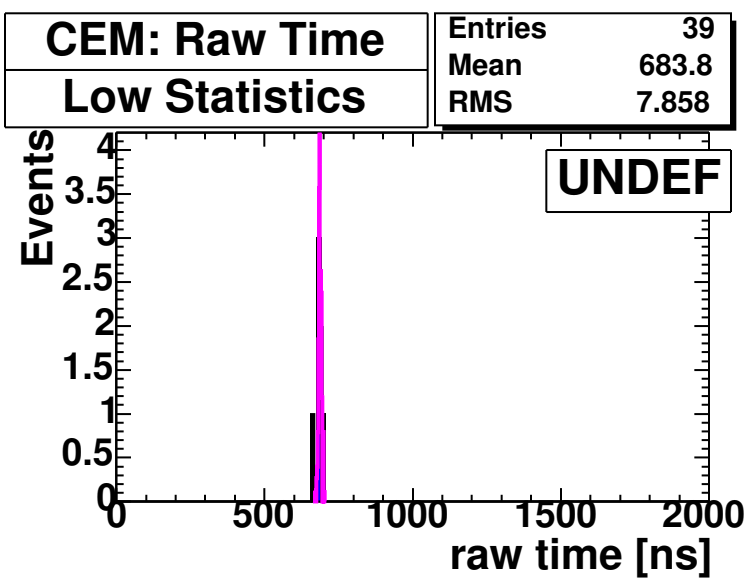
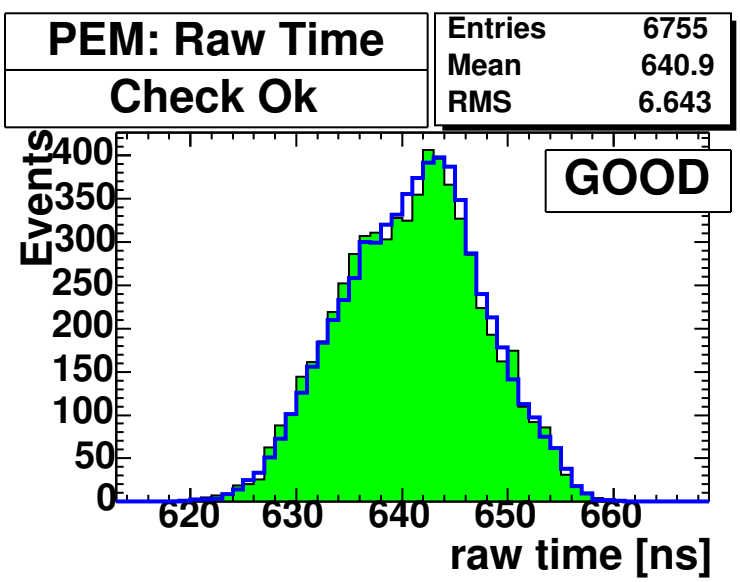
ObjectMon #4 TimeMonitor EMTDC Timing

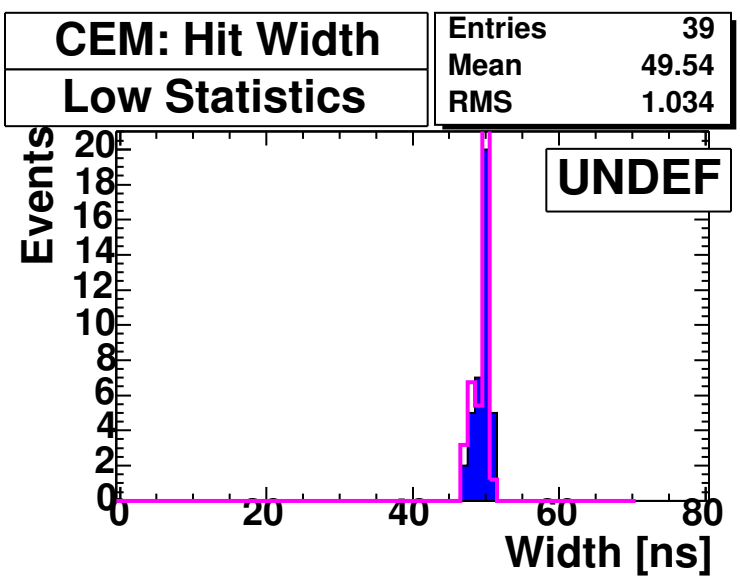
Run:164799 Event: 768360 # of Events:17928 Time: Mon Jun 16 11:46:04 2003 Ref.Run:164451

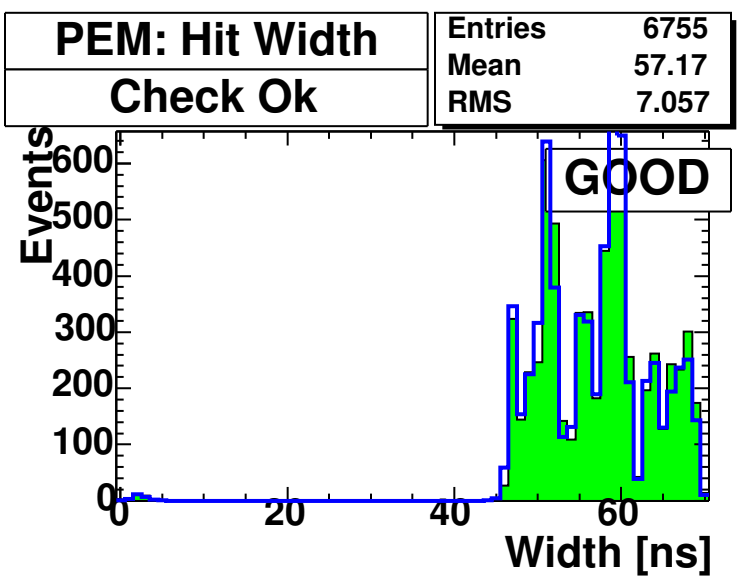












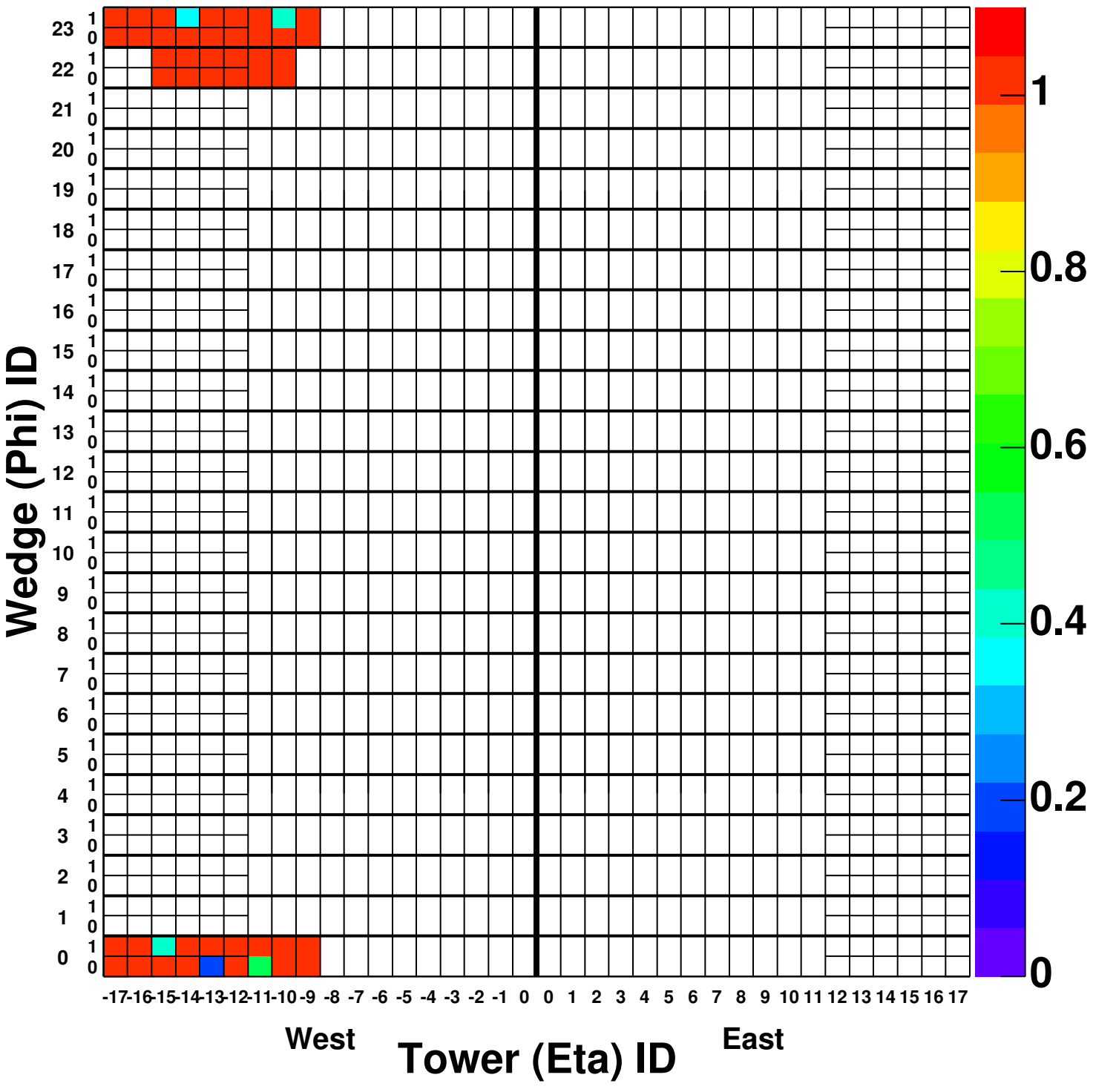
ObjectMon #9 TimeMonitor EMTD: 100% Eff 2D

Run:164799 Event: 768360 # of Events:17928 Time: Mon Jun 16 11:46:04 2003 Ref.Run:164451

Eff. of EM Phototubes in 100% range

not red are BAD

100% Energy range [GeV]:
CEM: PMTE ≥ 6.0
PEM: PMTE ≥ 3.0



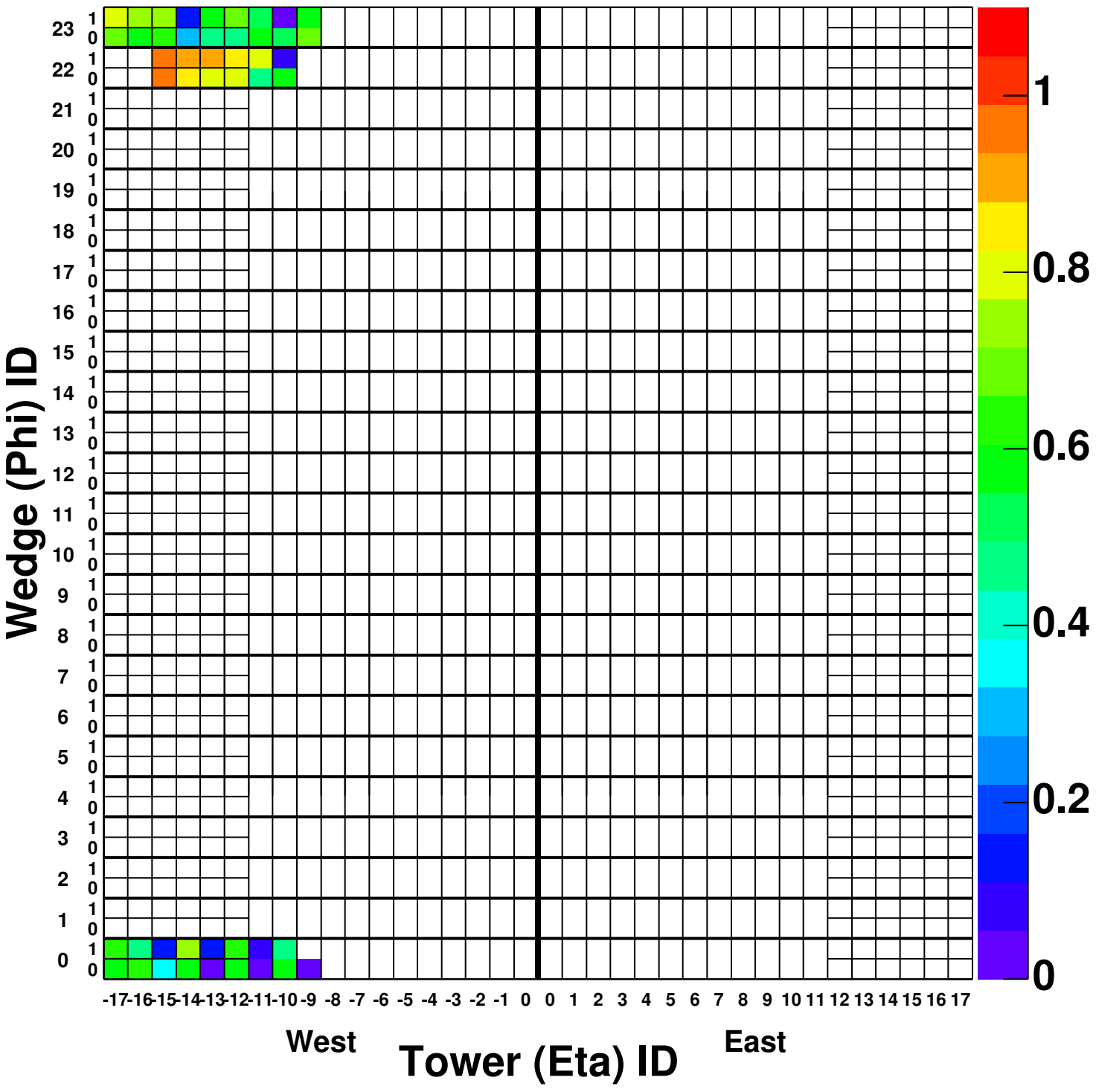
ObjectMon #8 TimeMonitor EMTD: 50% Eff 2D

Run:164799 Event: 768360 # of Events:17928 Time: Mon Jun 16 11:46:04 2003 Ref.Run:164451

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



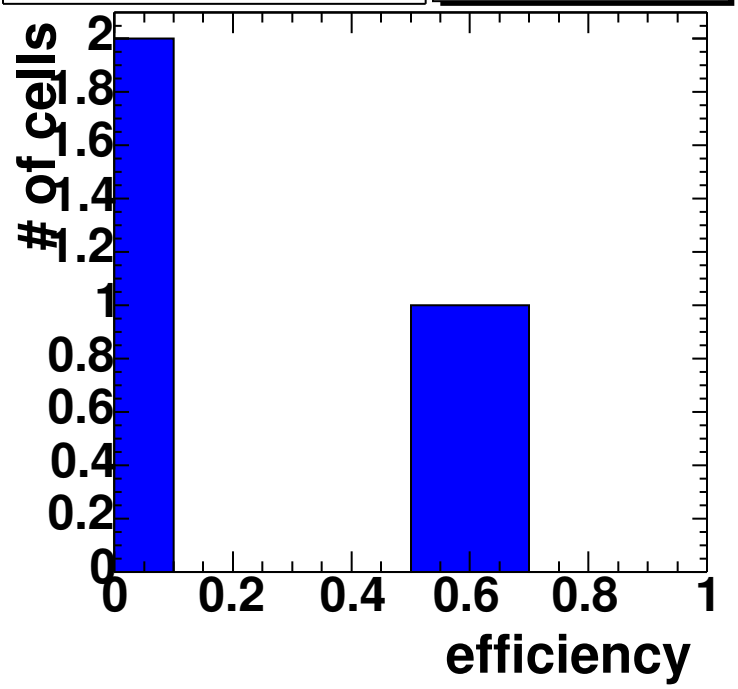
ObjectMon #10 TimeMonitor EMTD: 50% and 100% Eff

Run:164799 Event: 768360 # of Events:17928 Time: Mon Jun 16 11:46:04 2003 Ref.Run:164451

CEM: Cell Eff. Distrib. (50%)

Not Checked

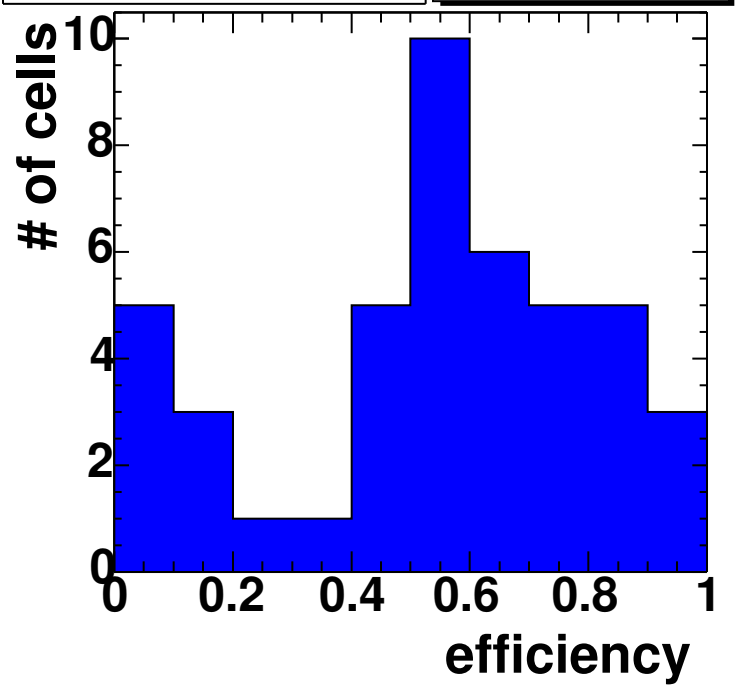
Entries	4
Mean	0.317
RMS	0.3082



PEM: Cell Eff. Distrib. (50%)

Not Checked

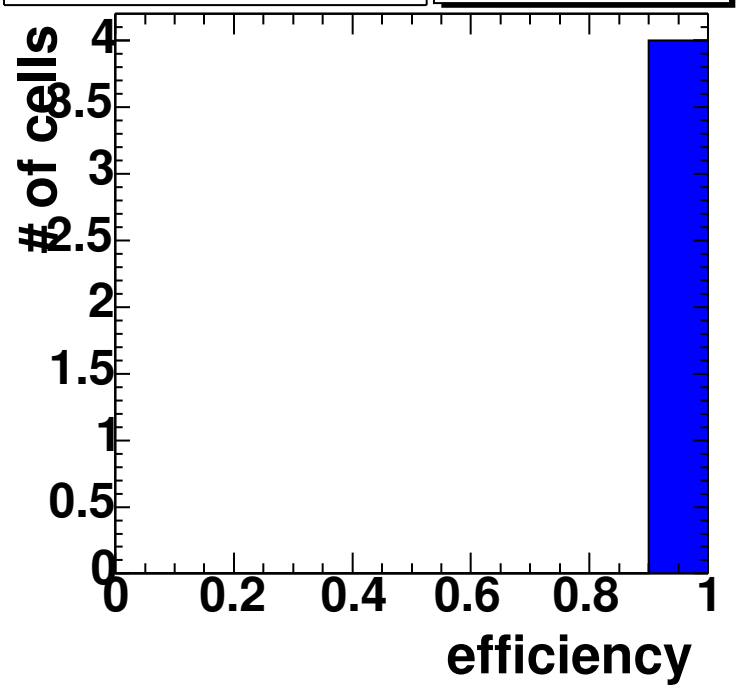
Entries	44
Mean	0.5455
RMS	0.2641



CEM: Cell Eff. Distrib. (100%)

Not Checked

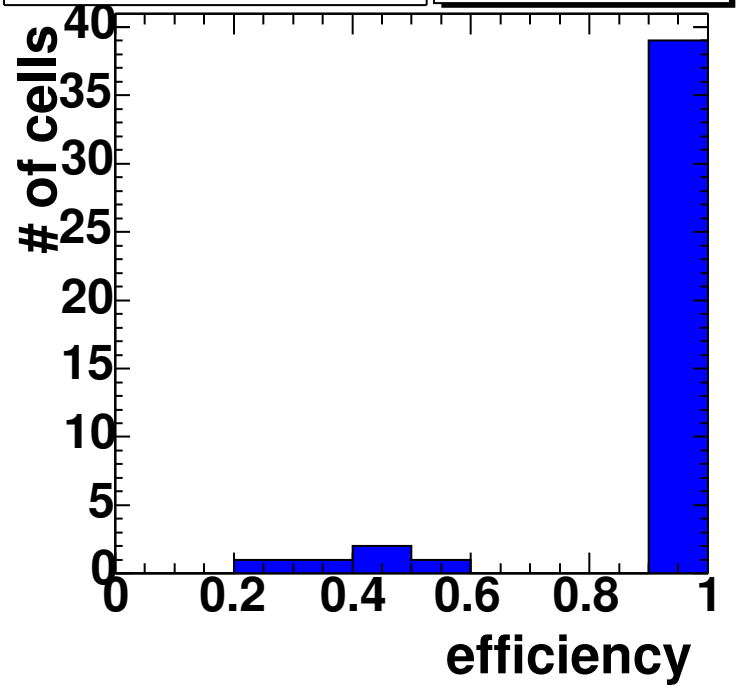
Entries	4
Mean	0.999
RMS	-0



PEM: Cell Eff. Distrib. (100%)

Not Checked

Entries	44
Mean	0.9278
RMS	0.2018



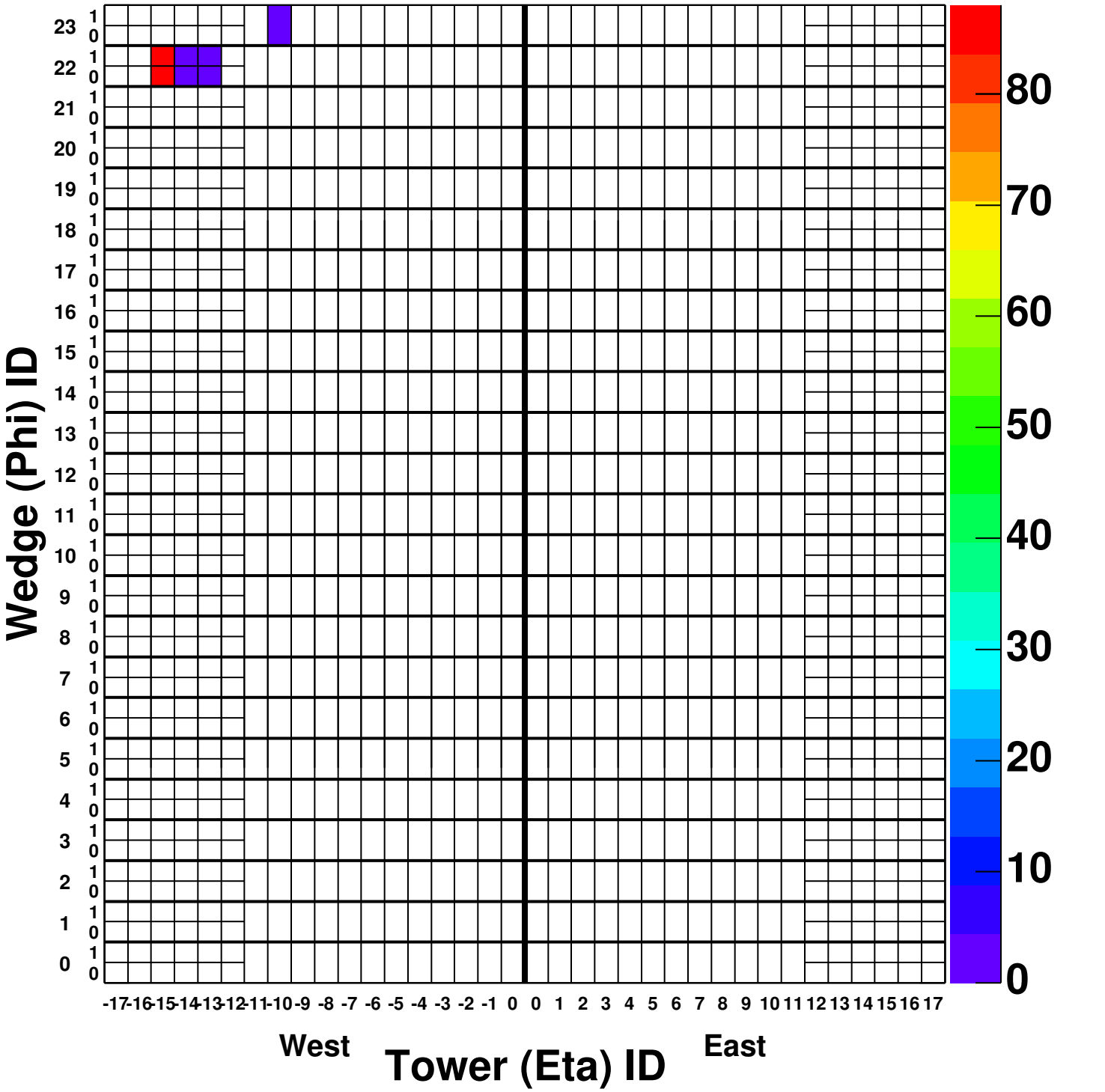
ObjectMon #11 TimeMonitor EMTD: Fake Firings

Run:164799 Event: 768360 # of Events:17928 Time: Mon Jun 16 11:46:04 2003 Ref.Run:164451

EMTDC Fake Firings Occupancy

problematic towers are colored

Energy range [GeV]:
Total E < 0.5
ASD Time Window is
590.0 ns < t_0 < 740.0 ns



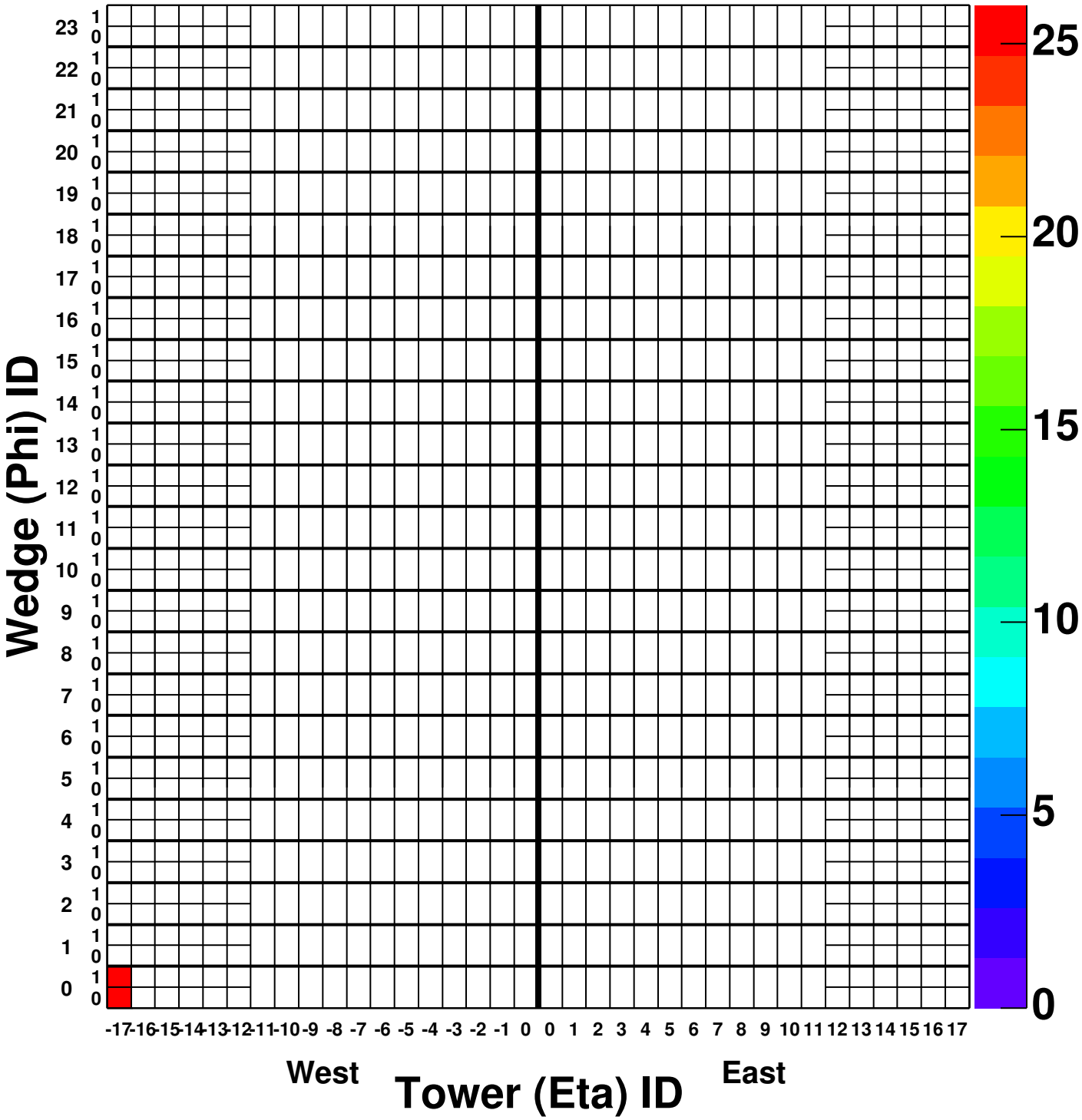
ObjectMon #12 TimeMonitor EMTD: Low Width - Occupancy

Run:164799 Event: 768360 # of Events:17928 Time: Mon Jun 16 11:46:04 2003 Ref.Run:164451

EMTDC: Low Width Hit Occupancy

problematic towers are colored

Hits with width < 20.0 ns
ASD Time t_0 > 100.0 ns
Tower Energy > 0 GeV



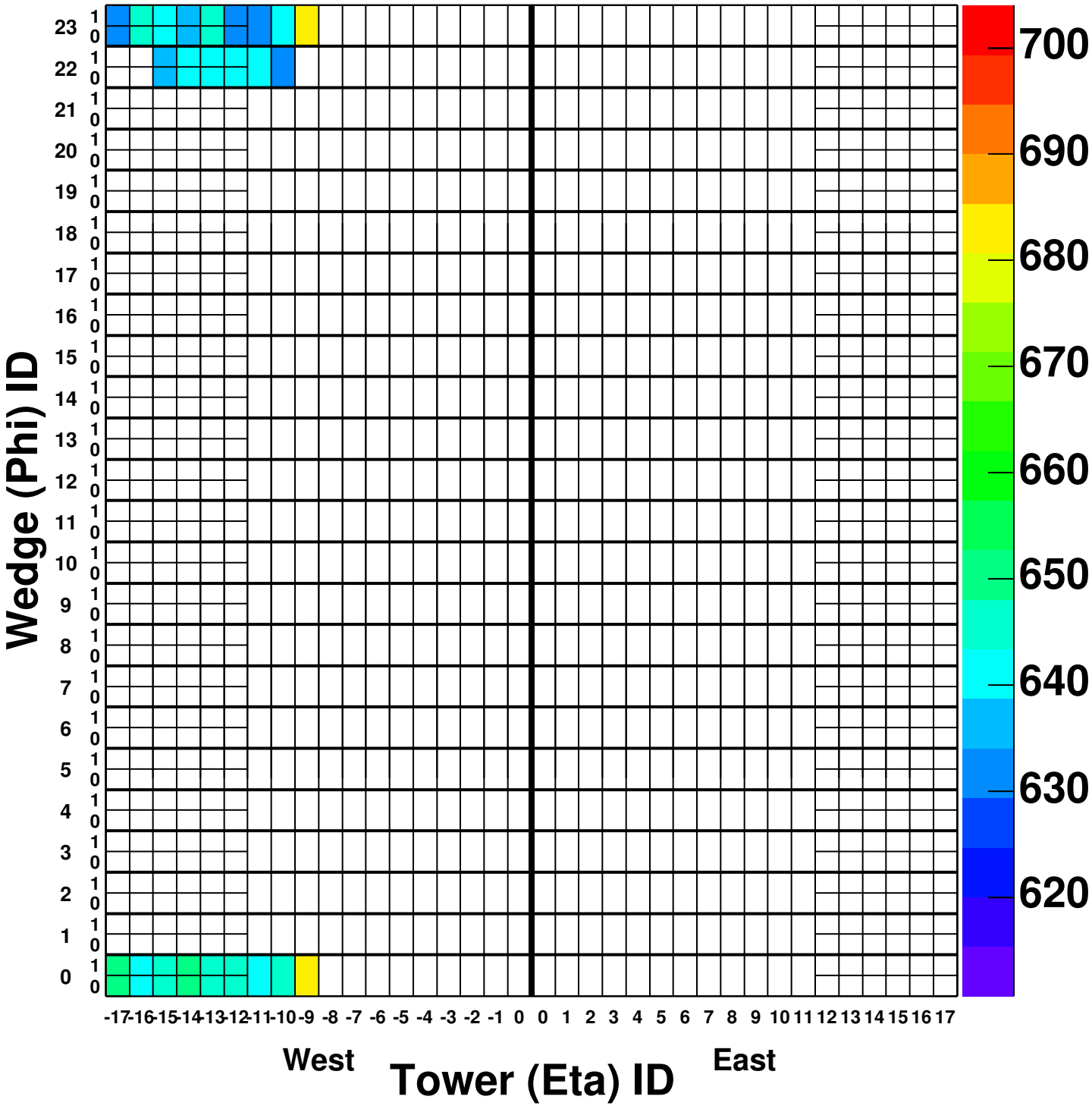
ObjectMon #13 TimeMonitor EMTD: Mean Raw t0

Run:164799 Event: 768360 # of Events:17928 Time: Mon Jun 16 11:46:04 2003 Ref.Run:164451

EMTDC: Mean Raw t_0

purple or red - problems

ASD Time Window is
590.0 ns < t_0 < 740.0 ns
Eeven+Eodd > 0.5 GeV
$|t_{0corr} - \langle t_{0corr} \rangle| < 15.0$ ns



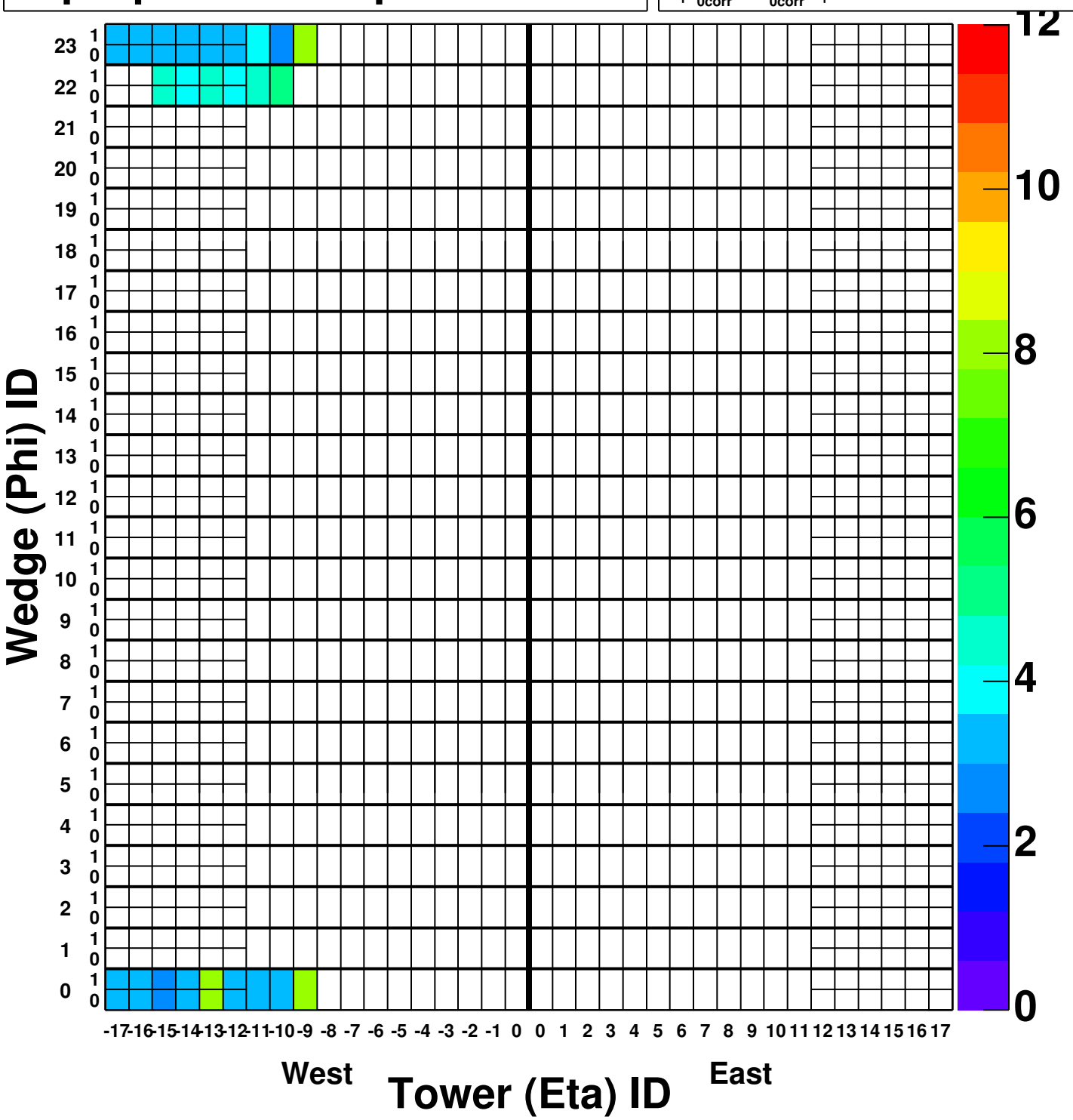
ObjectMon #14 TimeMonitor EMTD: RMS for Raw t0

Run:164799 Event: 768360 # of Events:17928 Time: Mon Jun 16 11:46:04 2003 Ref.Run:164451

EMTDC: Raw t_0 RMS

purple or red - problems

ASD Time Window is
590.0 ns < t_0 < 740.0 ns
Eeven+Eodd > 0.5 GeV
$|t_{0corr} - \langle t_{0corr} \rangle| < 15.0$ ns



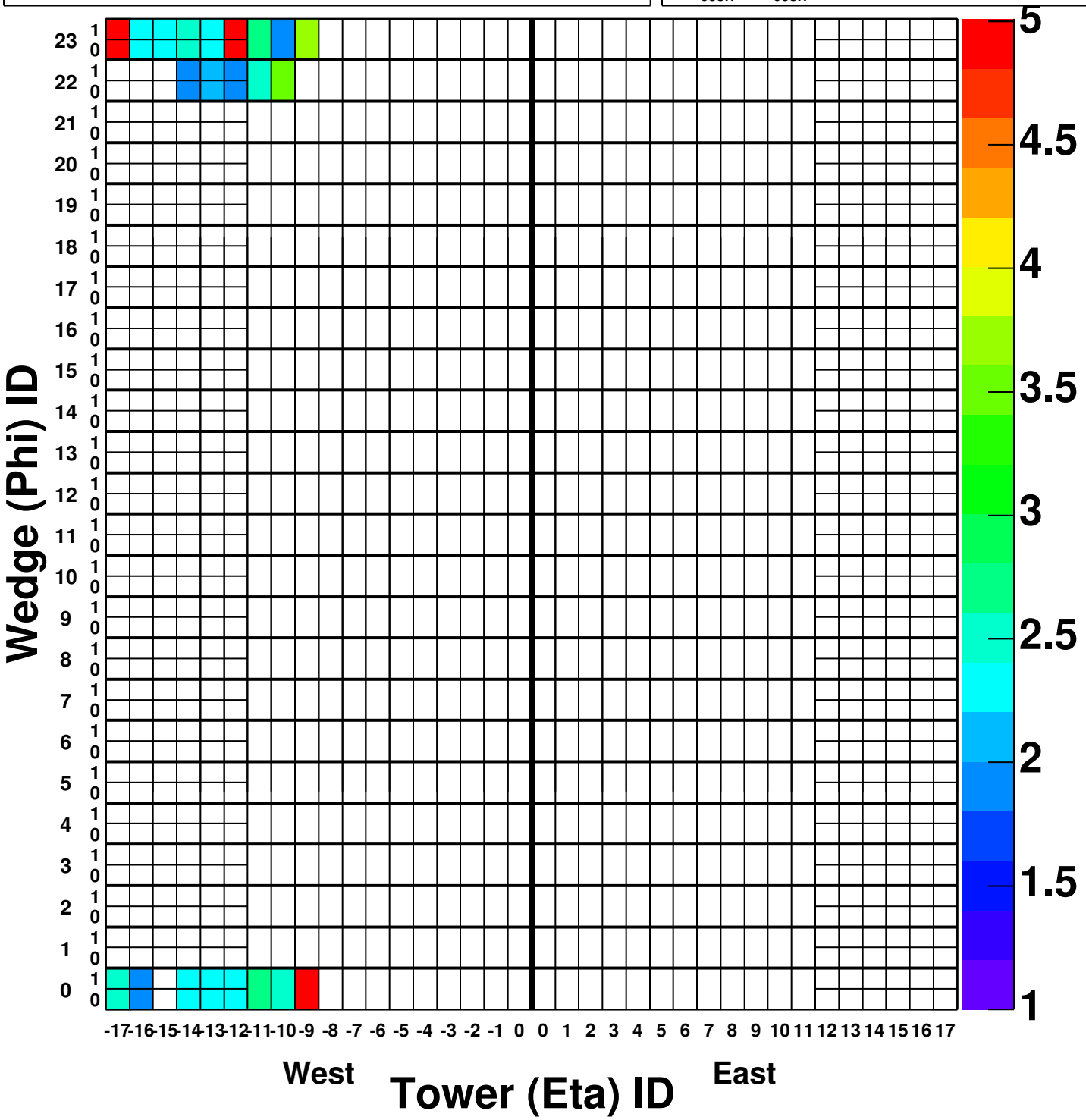
ObjectMon #15 TimeMonitor EMTD: RMS for Corrected t0

Run:164799 Event: 768360 # of Events:17928 Time: Mon Jun 16 11:46:04 2003 Ref.Run:164451

EMTDC: Corrected t_0 RMS

purple or red - problems

ASD Time Window is
590.0 ns < t_0 < 740.0 ns
Eeven+Eodd > 0.5 GeV
$|t_{0corr} - \langle t_{0corr} \rangle| < 15.0$ ns



ObjectMon #16 TimeMonitor EMTD: Multiple Firings

Run:164799 Event: 768360 # of Events:17928 Time: Mon Jun 16 11:46:04 2003 Ref.Run:164451

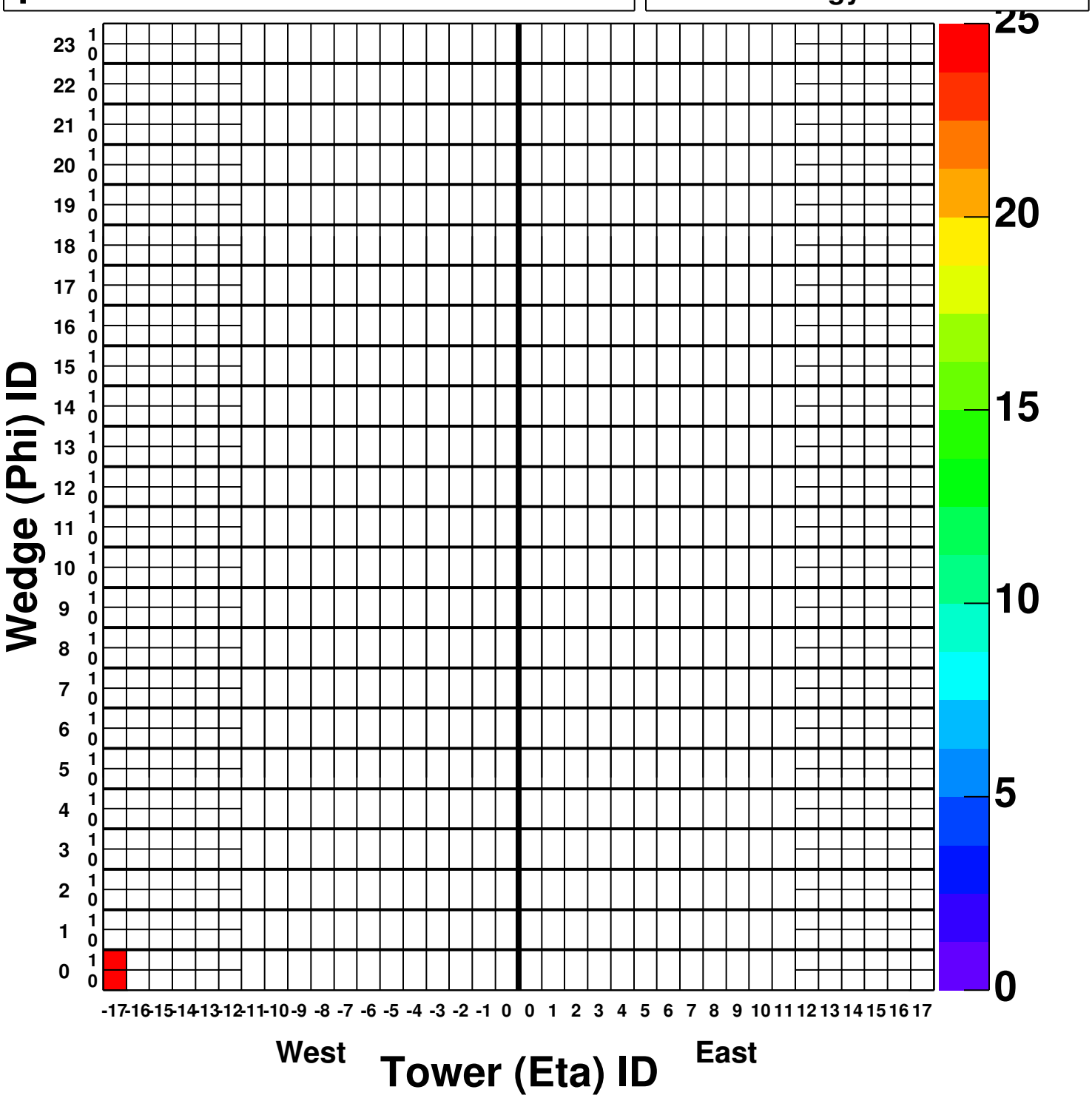
EMTDC: Multiply Firing Towers

problematic towers are colored

ASD Time Window is

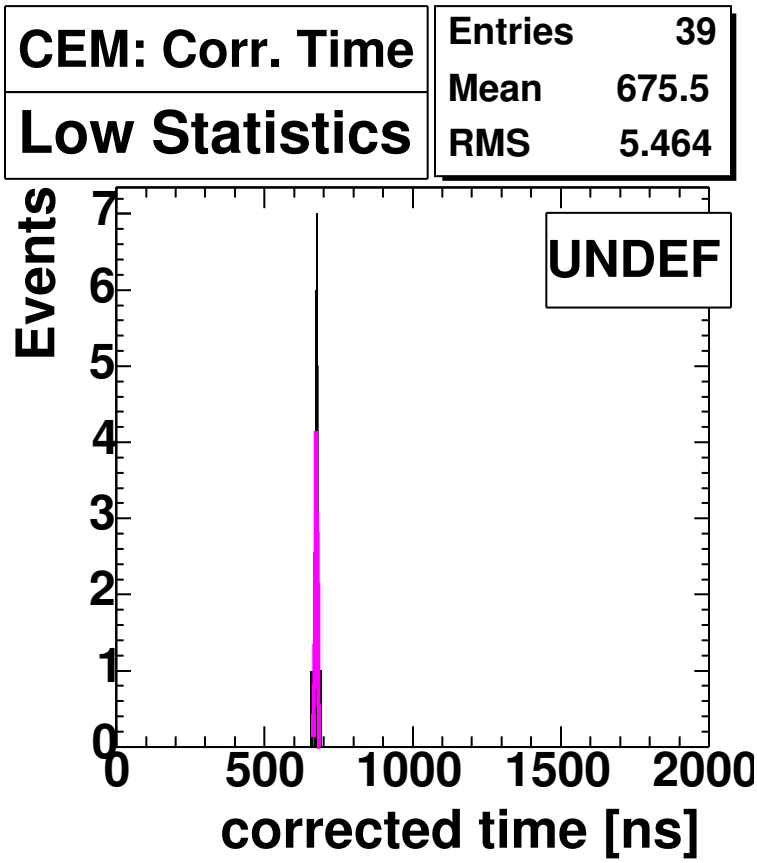
590.0 ns < t_0 < 740.0 ns

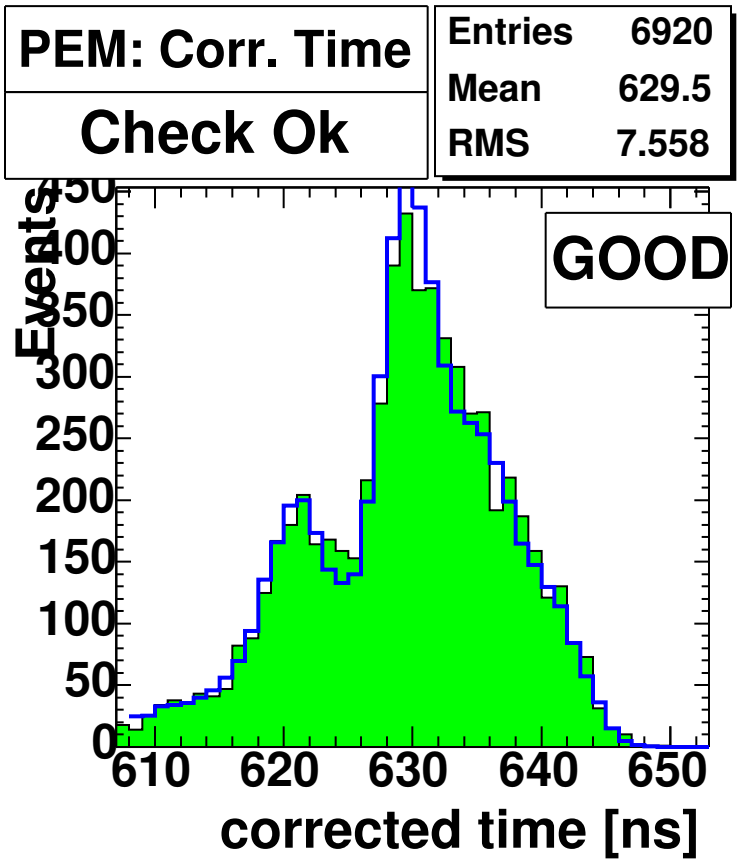
Tower Energy > 0 GeV

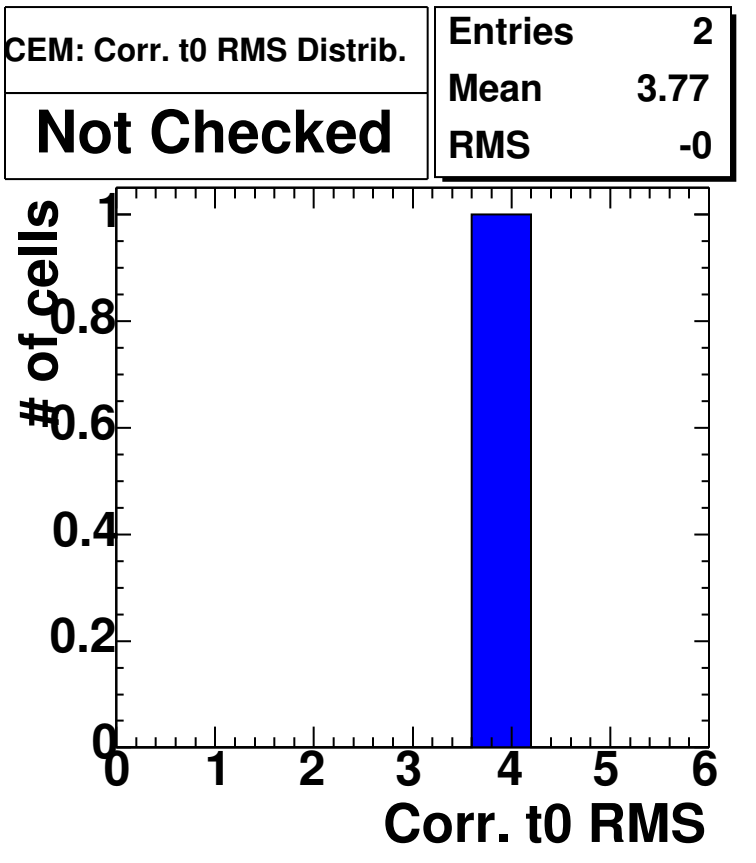


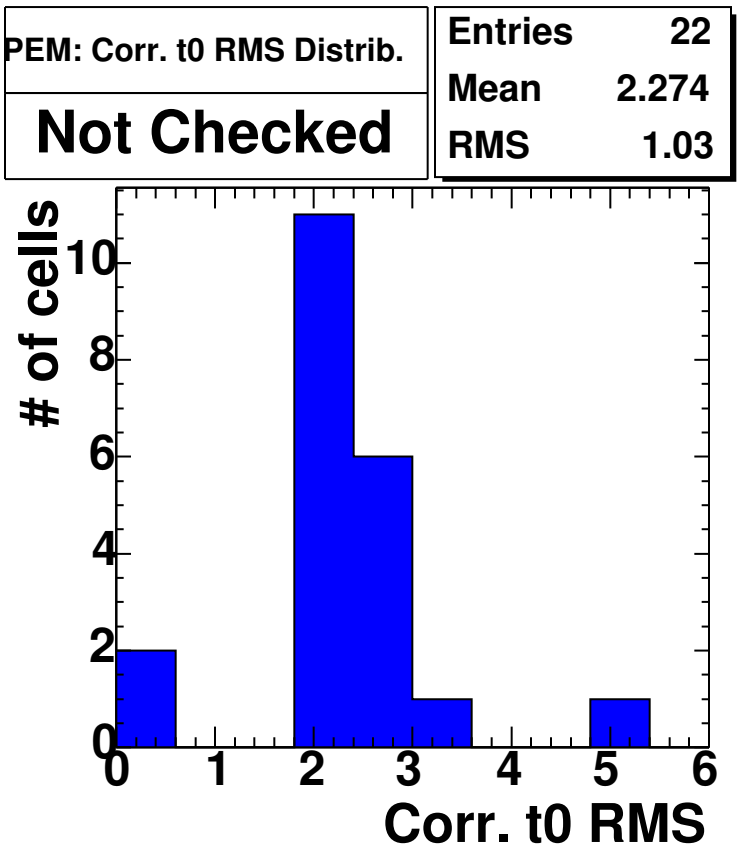
ObjectMon #17 TimeMonitor EMTD: Corrected t0 and RMS

Run:164799 Event: 768360 # of Events:17928 Time: Mon Jun 16 11:46:04 2003 Ref.Run:164451





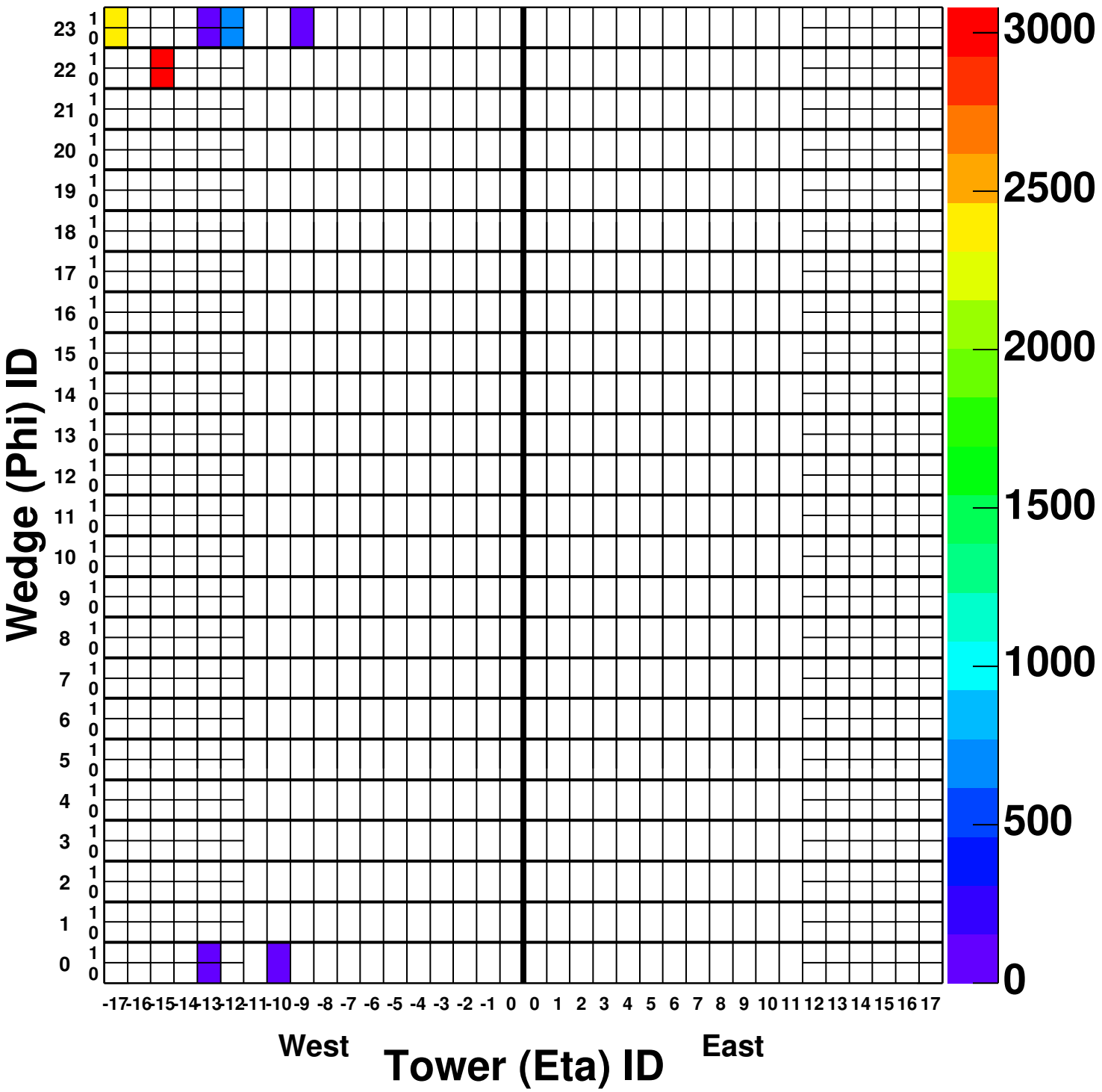




ObjectMon #18 TimeMonitor EMTD: Corr. t0 Far From Mean

Run:164799 Event: 768360 # of Events:17928 Time: Mon Jun 16 11:46:04 2003 Ref.Run:164451

EMTDC: Events Far From Corr. <t0>

problematic towers are colored

ASD Time Window is
590.0 ns < t_0 < 740.0 ns
Eeven+Eodd > 0.5 GeV
$|t_{0corr} - \langle t_{0corr} \rangle| > 15.0$ ns