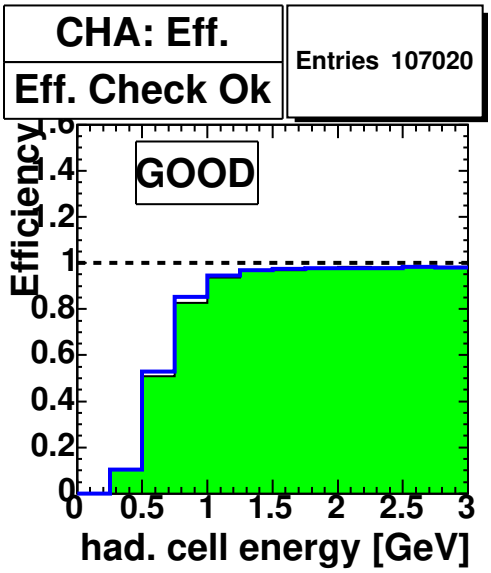
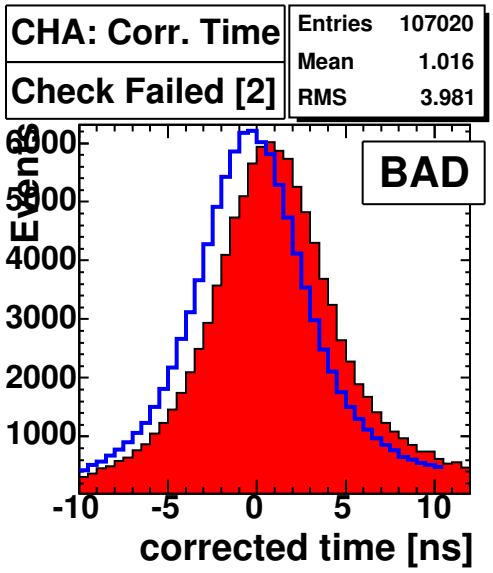
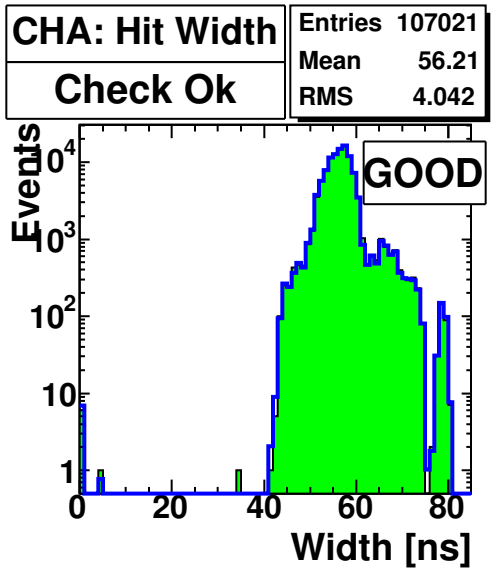
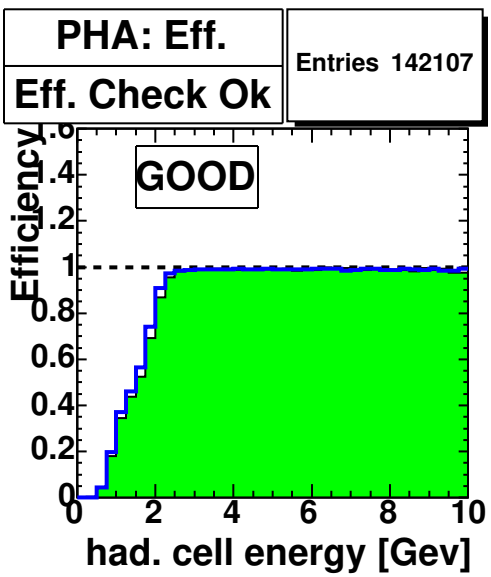
# ObjectMon #2 TimeMonitor HADTDC Timing

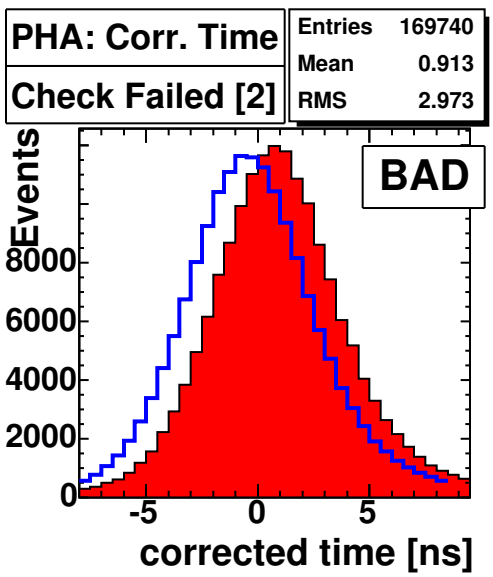
Run:205312 Event: 1620860 # of Events:17072 Time: Sat Oct 8 09:25:13 2005 Ref.Run:204204

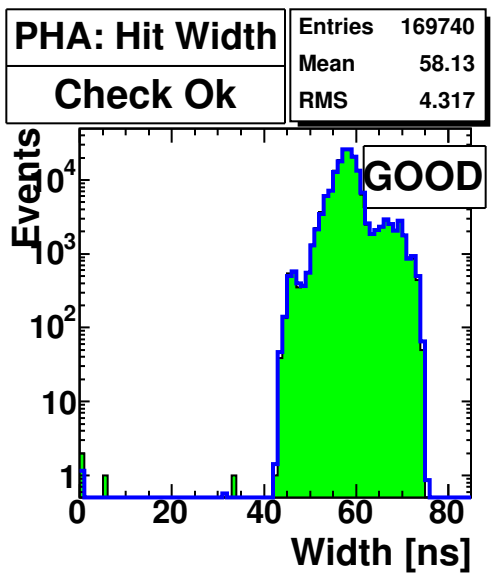


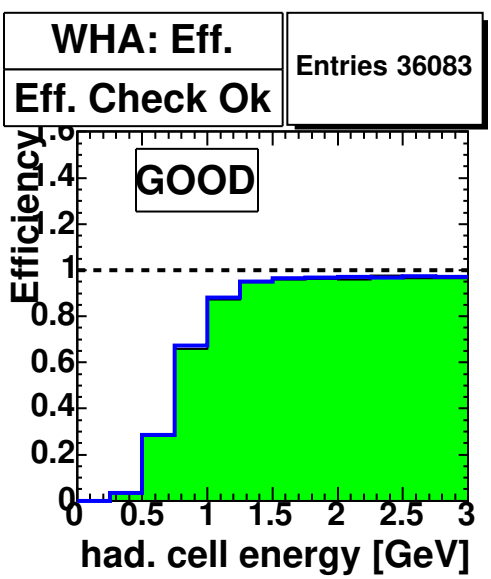



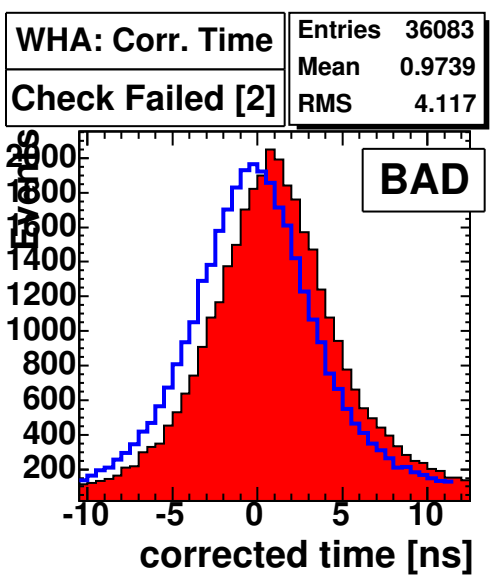



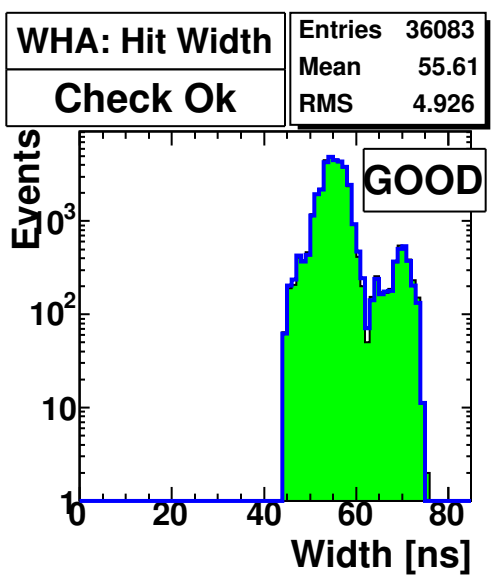



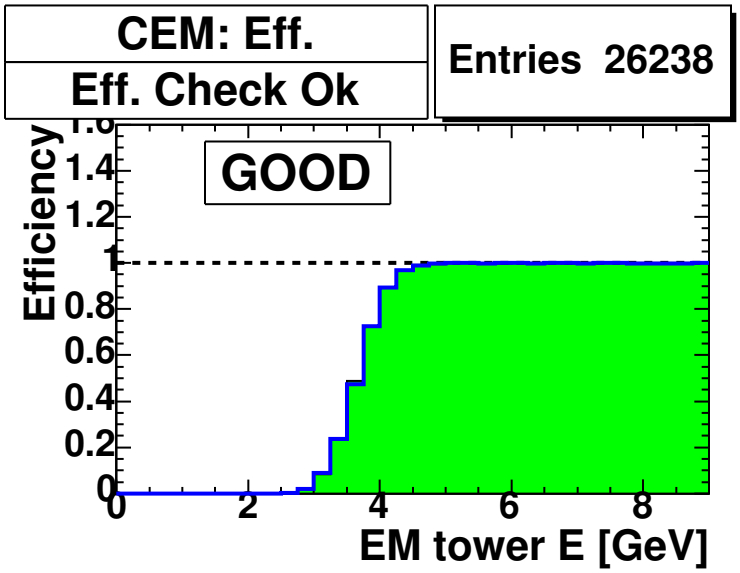



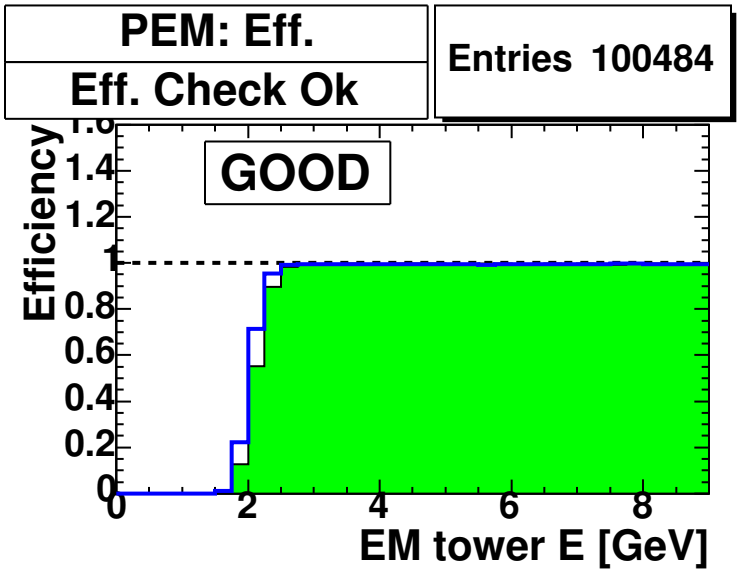



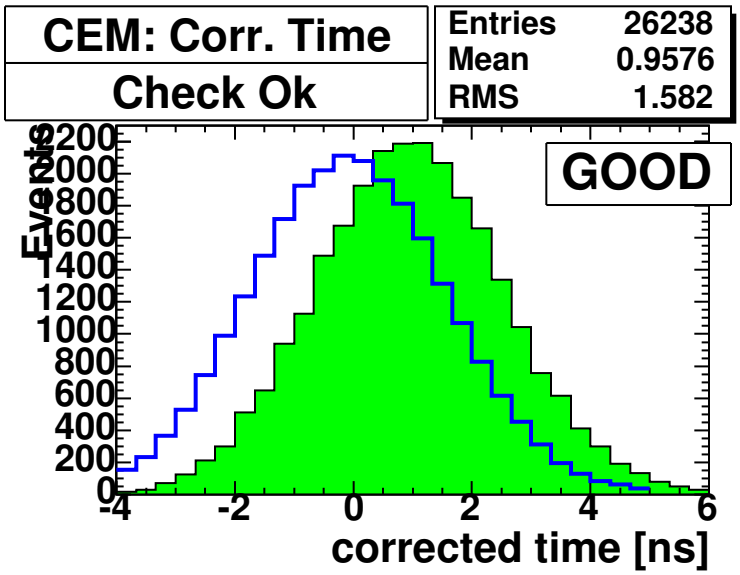



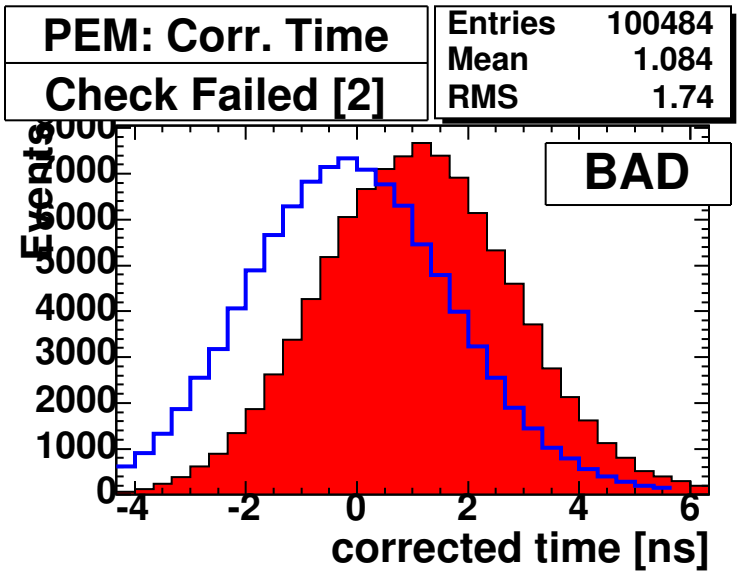
# ObjectMon #4 TimeMonitor EMTDC Timing

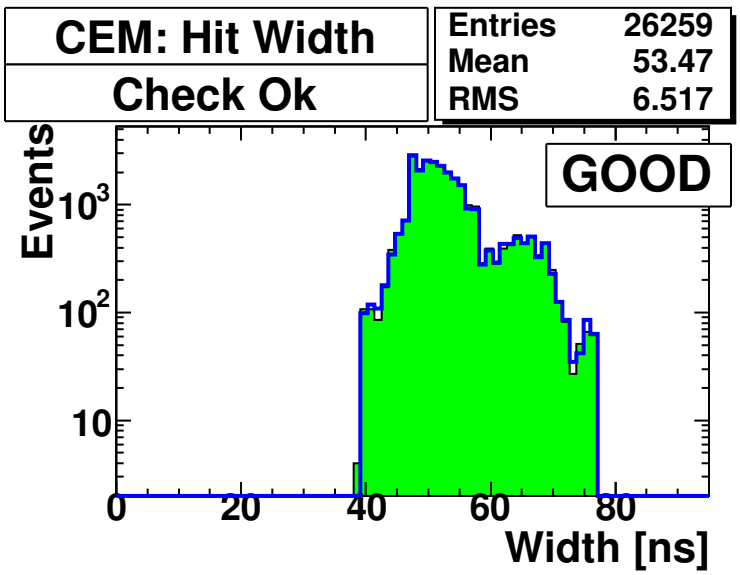
Run:205312 Event: 1620860 # of Events:17072 Time: Sat Oct 8 09:25:13 2005 Ref.Run:204204

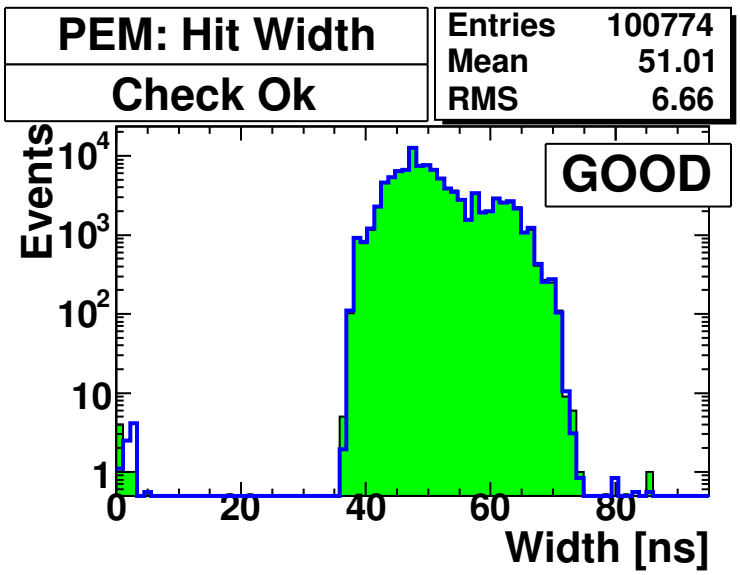


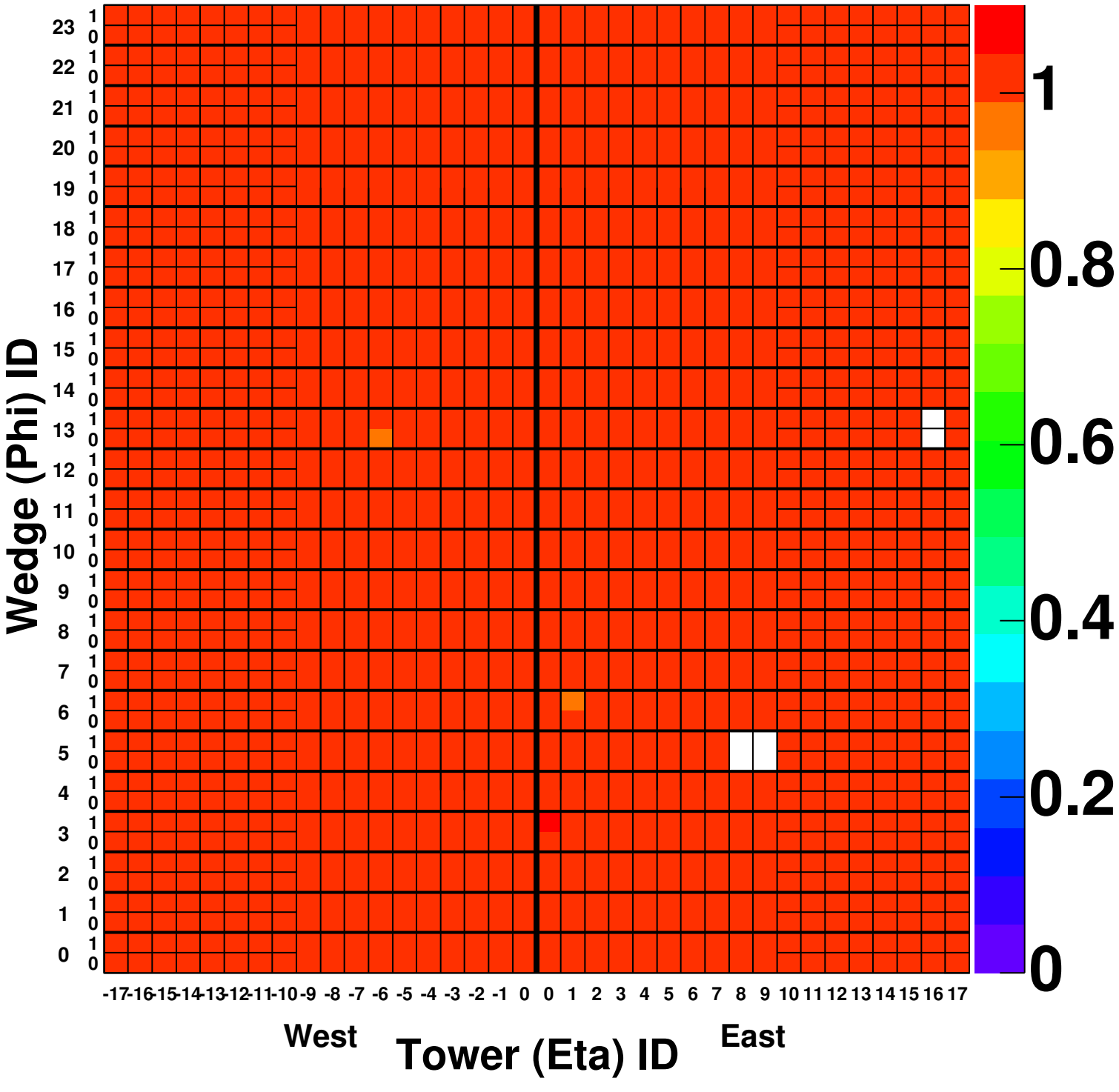
# ObjectMon #8 TimeMonitor EMTD: 100% Eff 2D

Run:205312 Event: 1620860 # of Events:17072 Time: Sat Oct 8 09:25:13 2005 Ref.Run:204204

**EMTDC: Eff. of EM Phototubes in 100% range**

**not red are BAD**

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

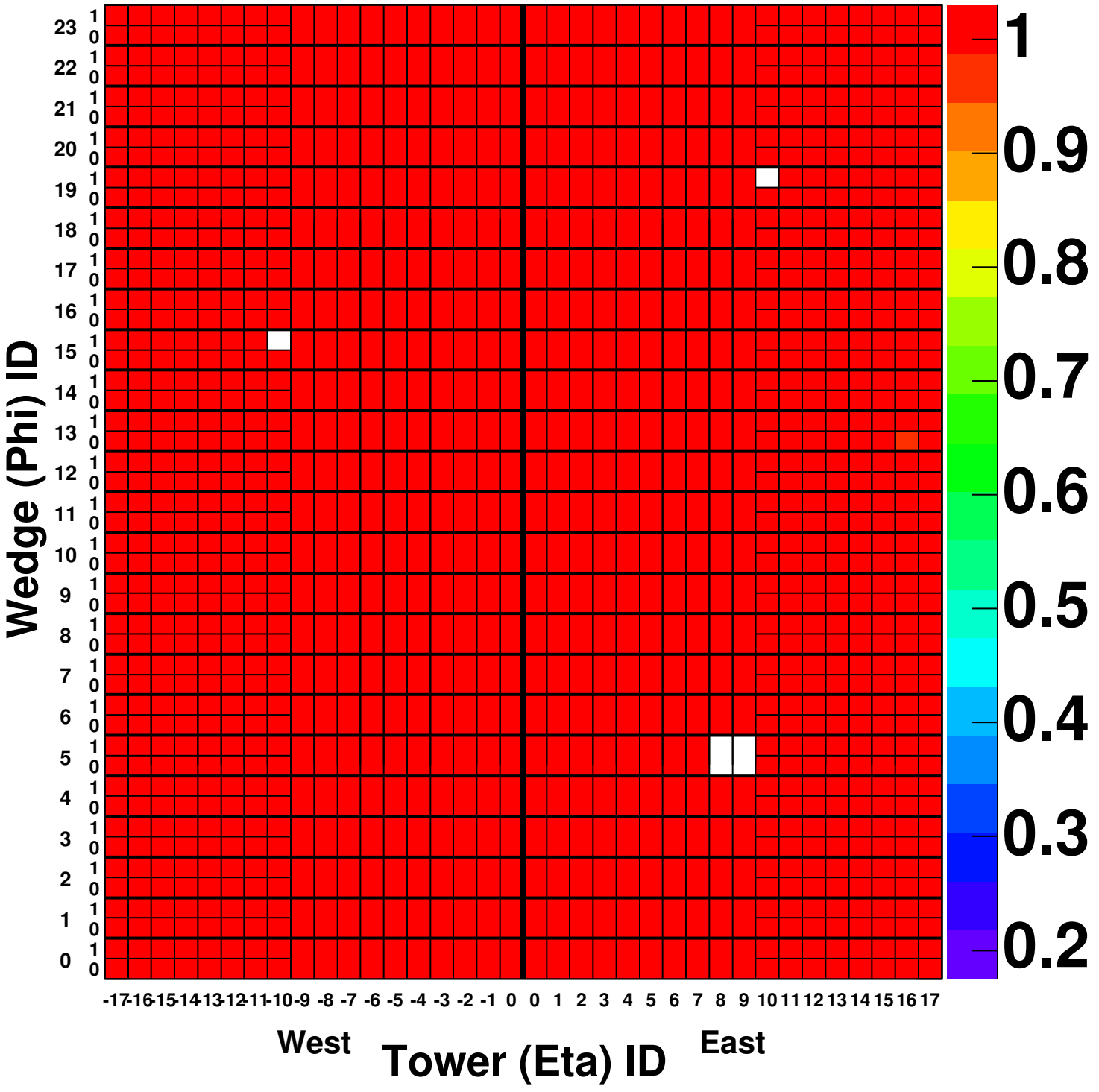


# ObjectMon #22 TimeMonitor EMTD: Fit Efficiency

Run:205312 Event: 1620860 # of Events:17072 Time: Sat Oct 8 09:25:14 2005 Ref.Run:204204

## EMTDC: Eff. Fit Plateau
## not red are BAD

**ASD Time Window is**
**520 ns < $t_0$ < 660 ns**

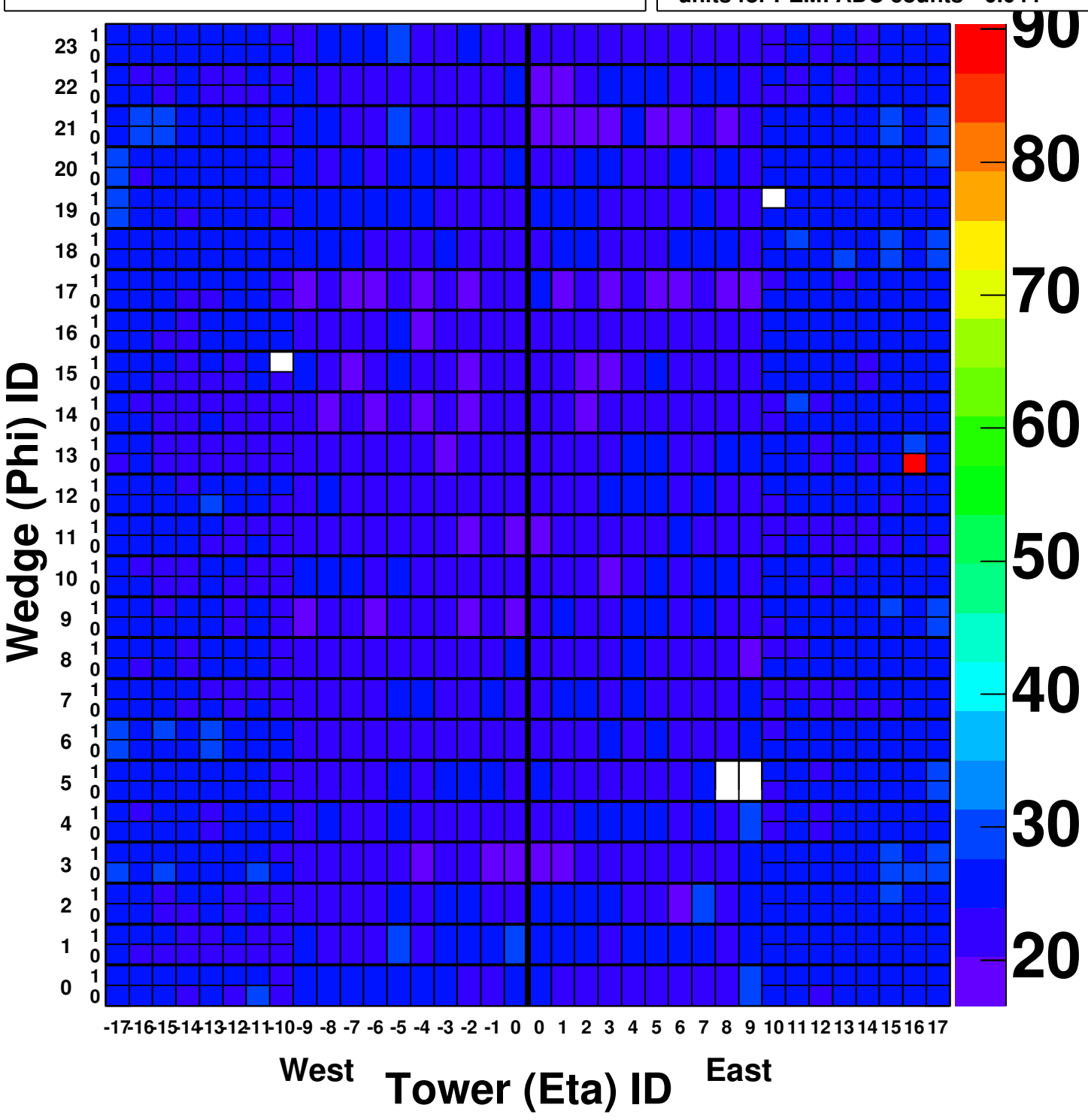


# ObjectMon #20 TimeMonitor EMTD: Thresholds

Run:205312 Event: 1620860 # of Events:17072 Time: Sat Oct 8 09:25:14 2005 Ref.Run:204204

## 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



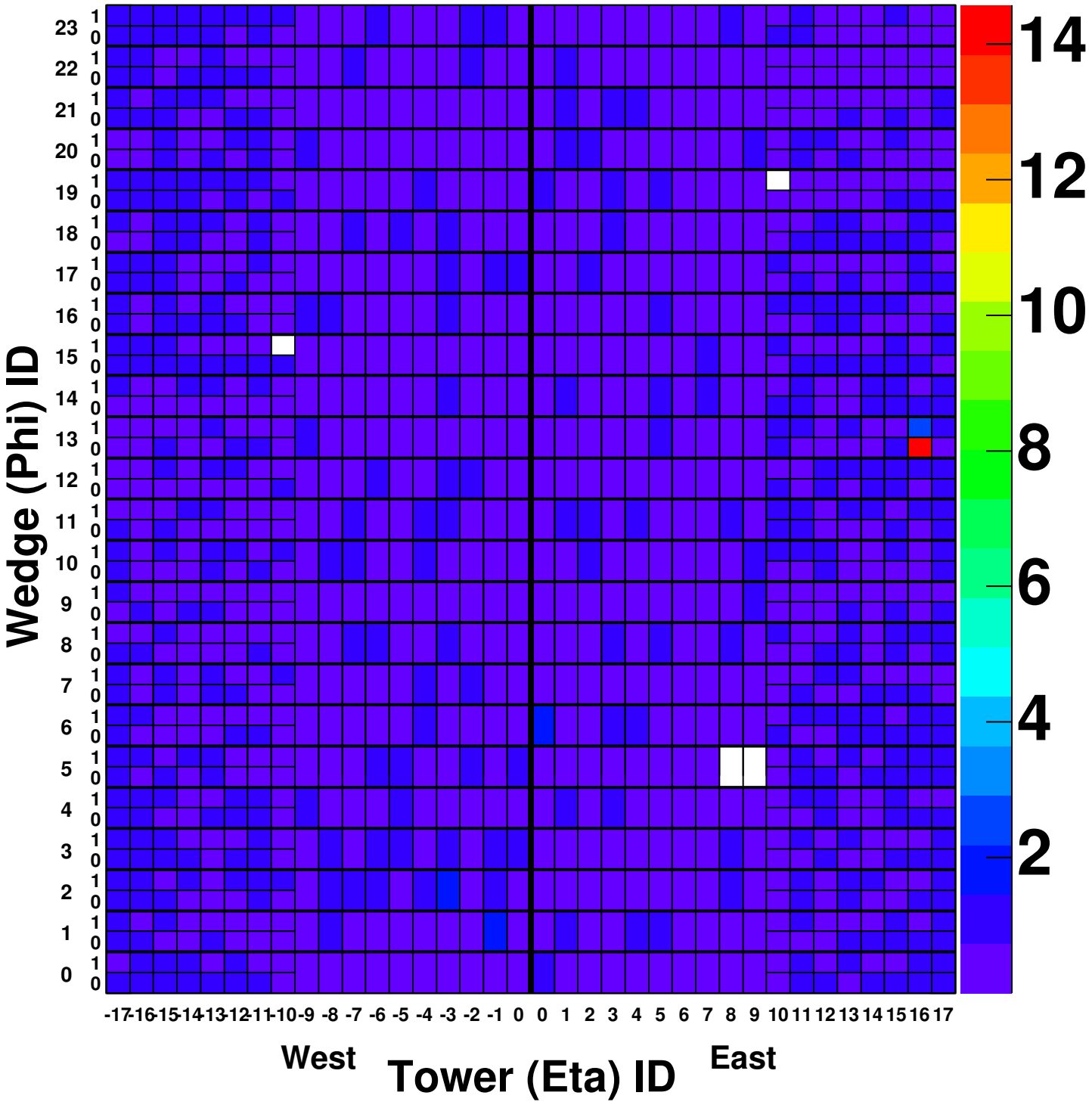
# ObjectMon #21 TimeMonitor EMTD: Threshold Sigma

Run:205312 Event: 1620860 # of Events:17072 Time: Sat Oct 8 09:25:14 2005 Ref.Run:204204

## EMTDC: Threshold Width

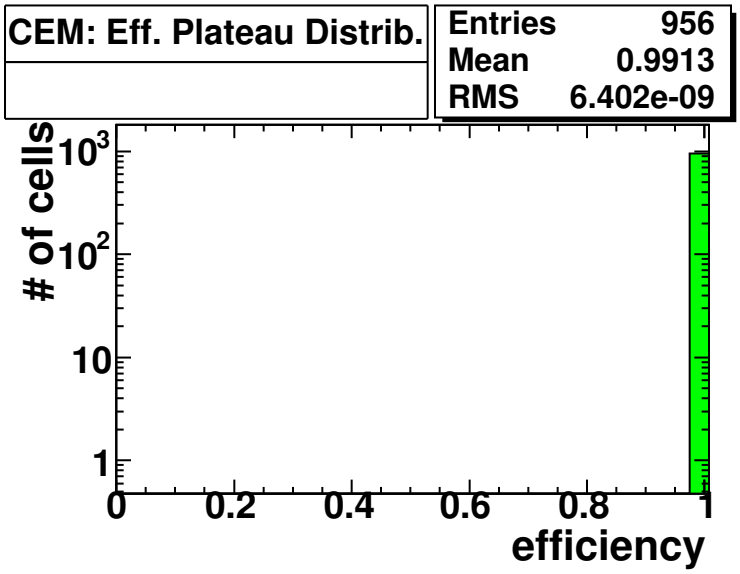
red - BAD

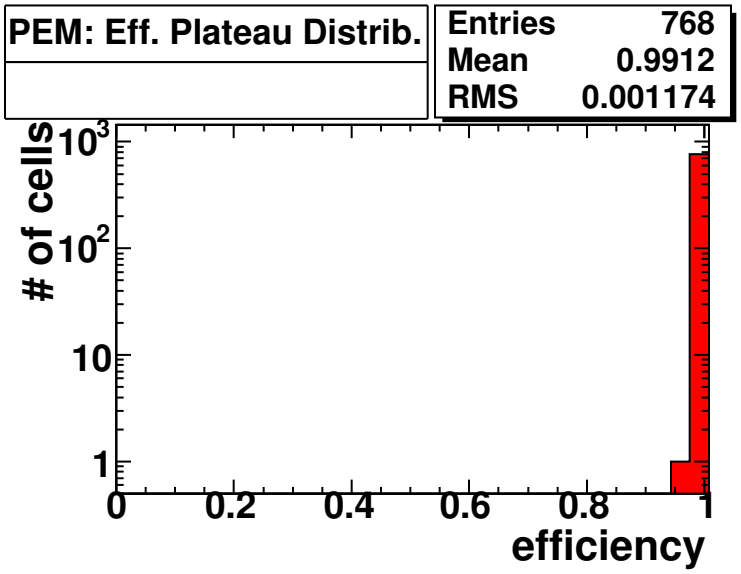
ASD Time Window is
520 ns < $t_0$ < 660 ns
units for CEM: ADC counts * 0.01
units for PEM: ADC counts * 0.045

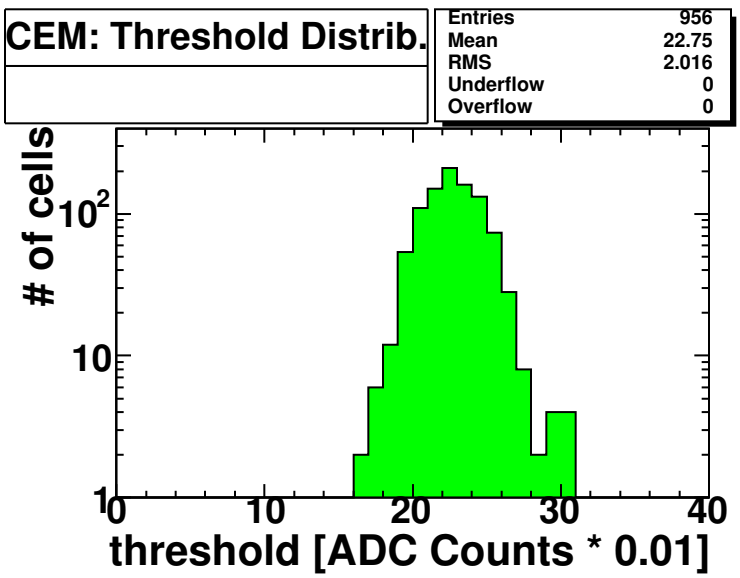


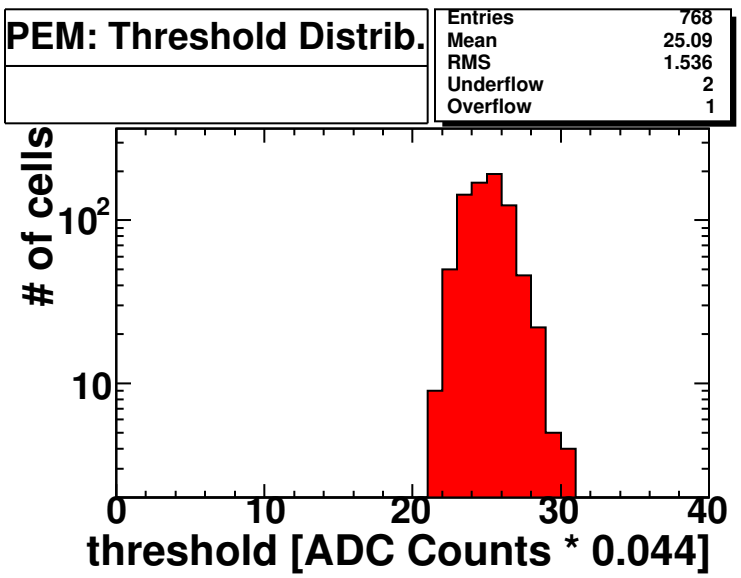
# ObjectMon #9 TimeMonitor EMTD: Thresh., Eff. and Sigmas

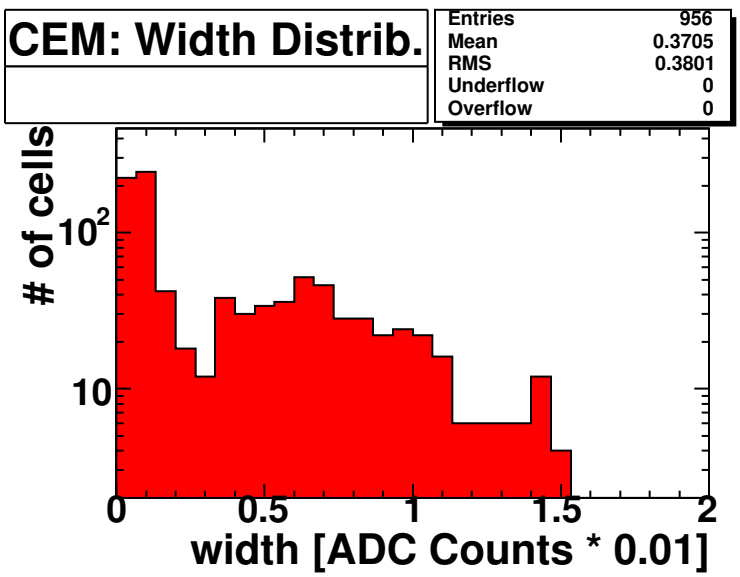
Run:205312 Event: 1620860 # of Events:17072 Time: Sat Oct 8 09:25:13 2005 Ref.Run:204204

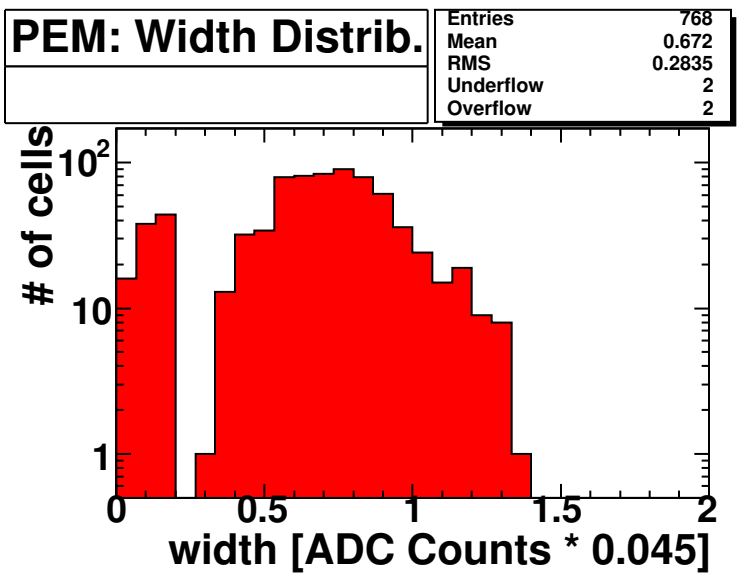


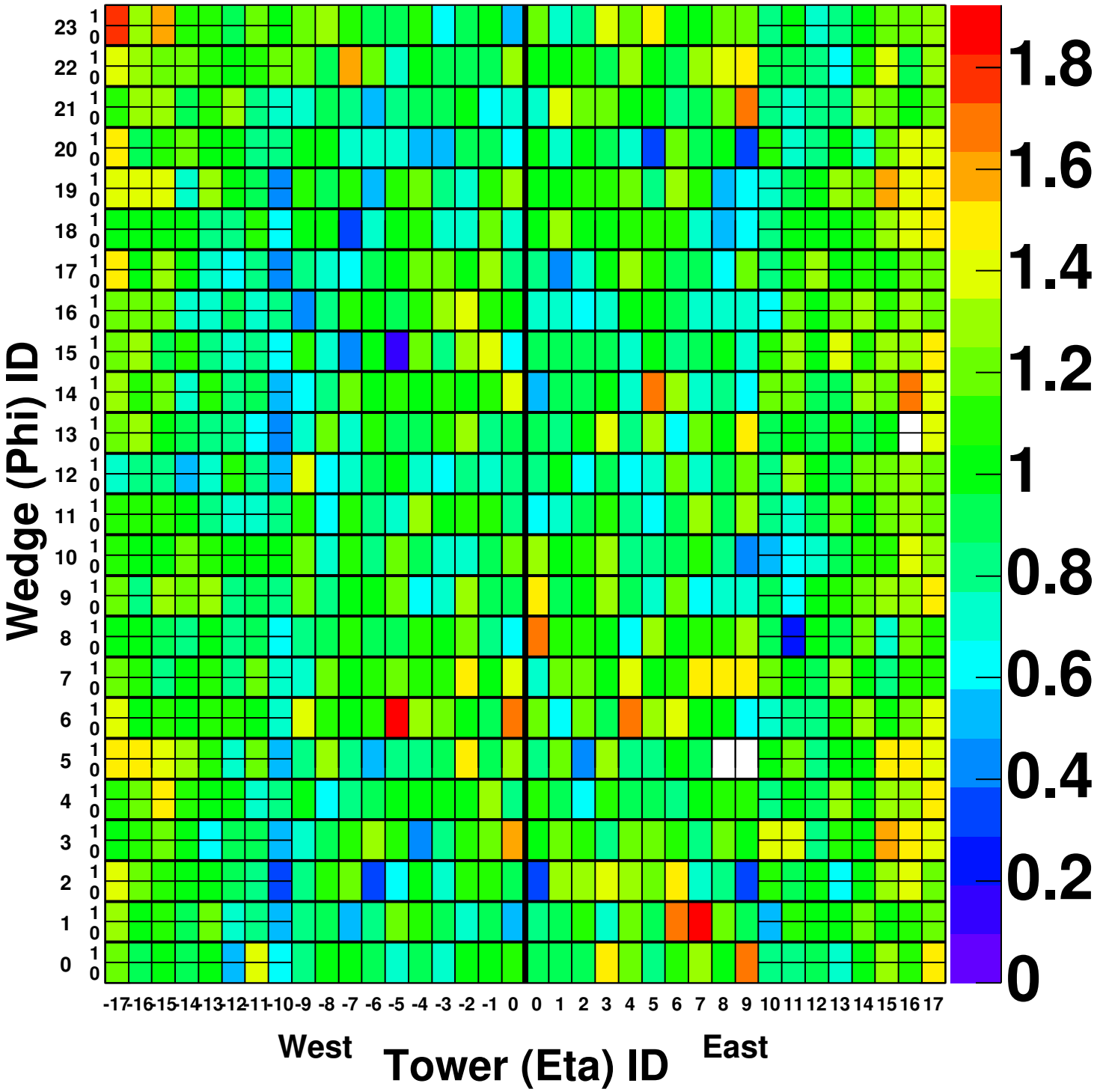
# ObjectMon #12 TimeMonitor EMTD: Mean Corrected t0

Run:205312 Event: 1620860 # of Events:17072 Time: Sat Oct 8 09:25:13 2005 Ref.Run:204204

## 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



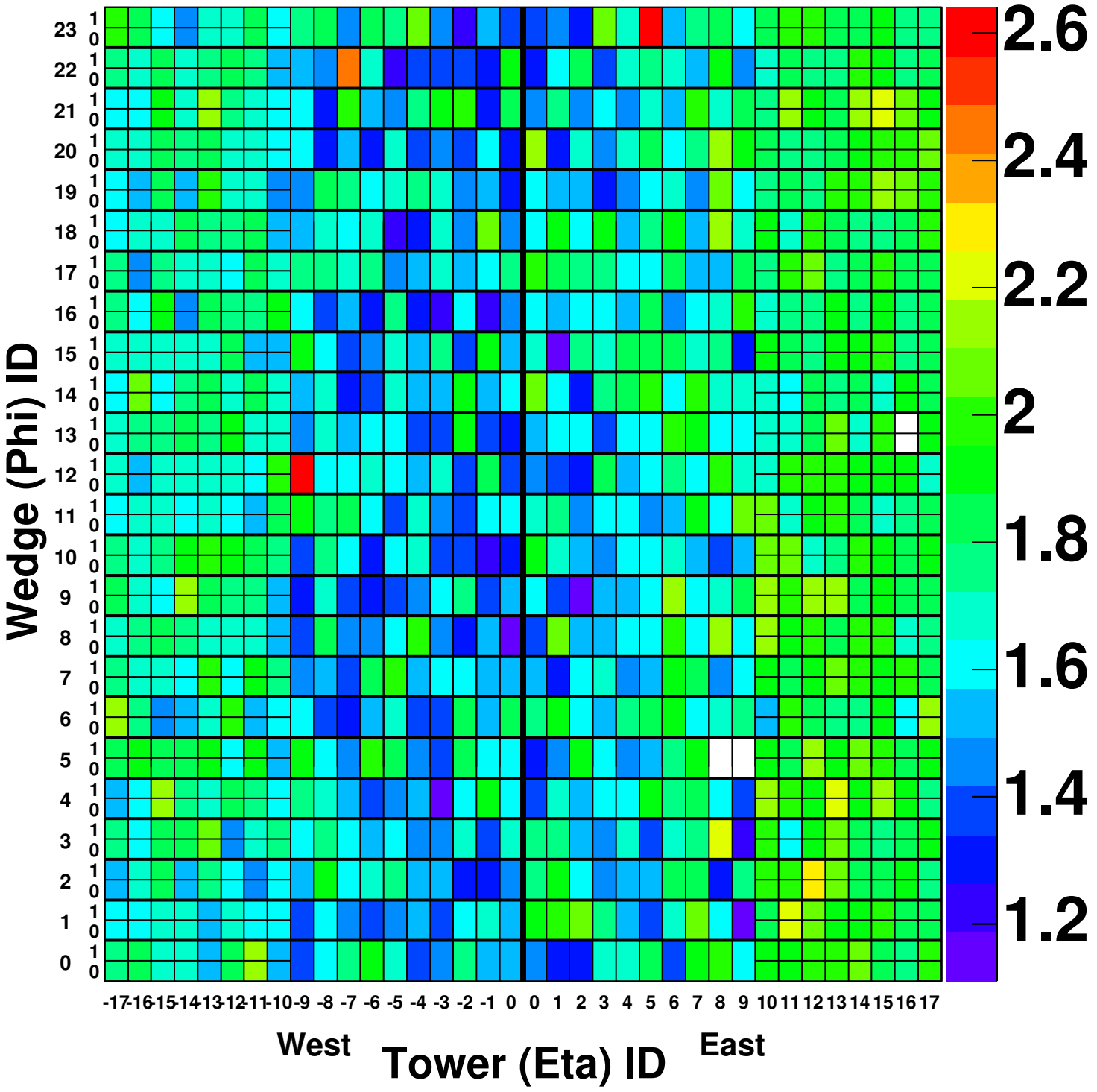
# ObjectMon #13 TimeMonitor EMTD: RMS for Corrected t0

Run:205312 Event: 1620860 # of Events:17072 Time: Sat Oct 8 09:25:13 2005 Ref.Run:204204

## EMTDC: Corrected $t_0$ RMS

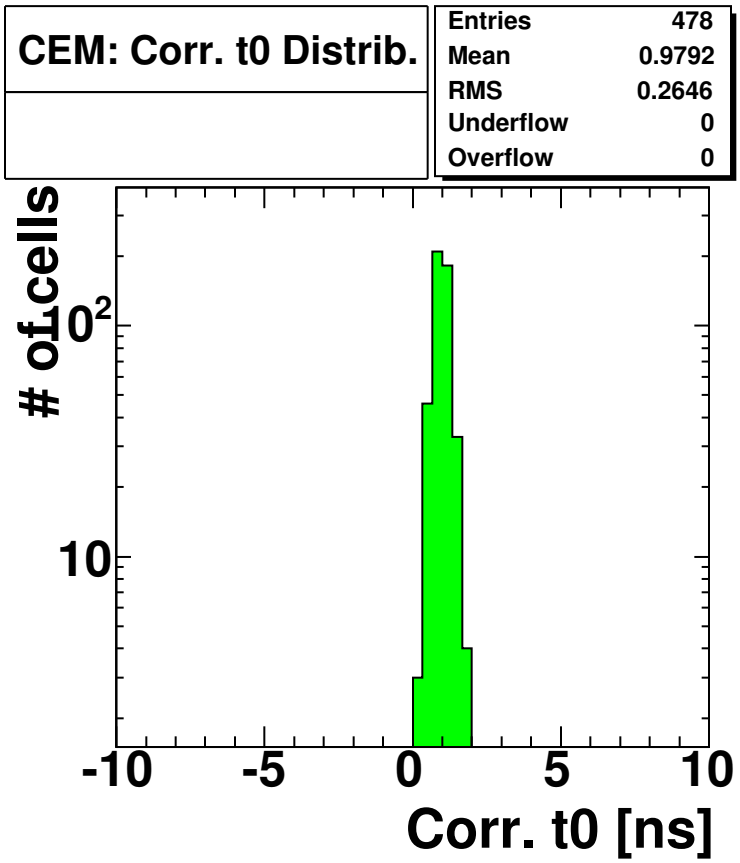
## purple or red - problems

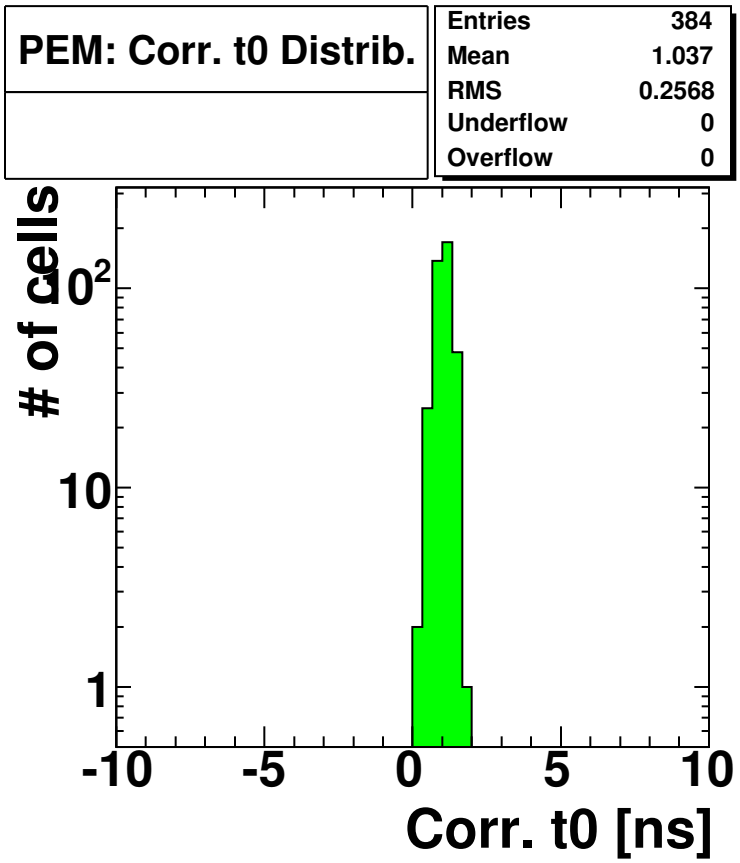
ASD Time Window is
520 ns < $t_0$ < 660 ns
Eeven+Eodd > 0.20 GeV
$|t_{0corr}|$<15.0 ns

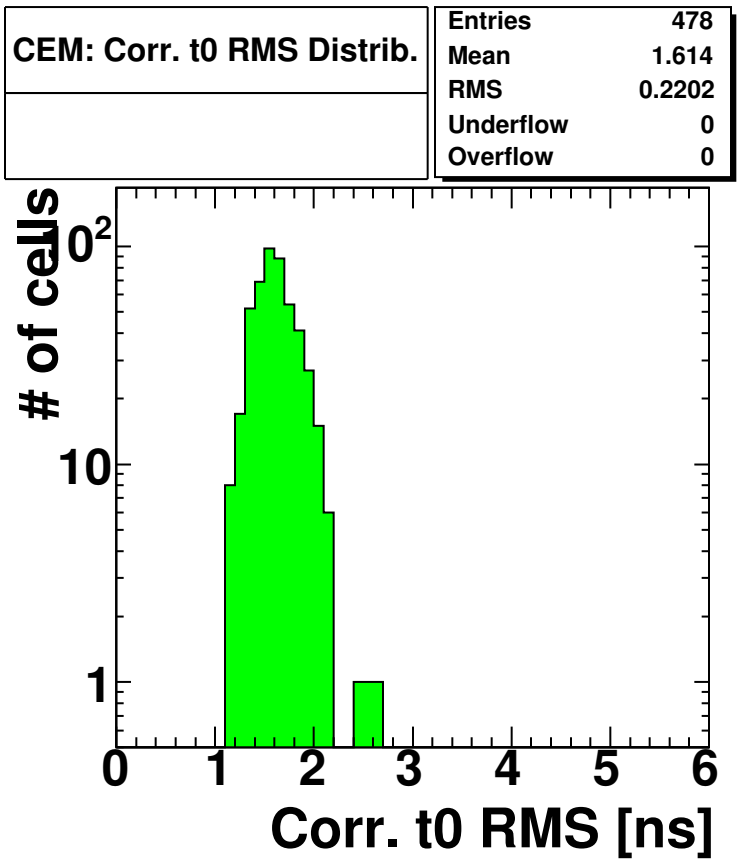


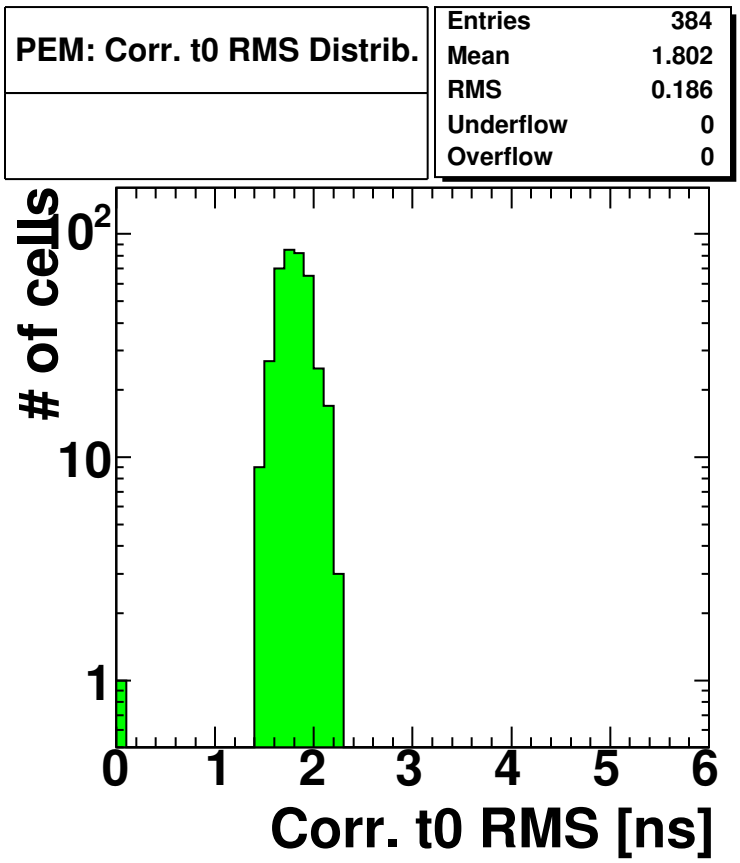
# ObjectMon #14 TimeMonitor EMTD: Corrected t0 and RMS

Run:205312 Event: 1620860 # of Events:17072 Time: Sat Oct 8 09:25:13 2005 Ref.Run:204204



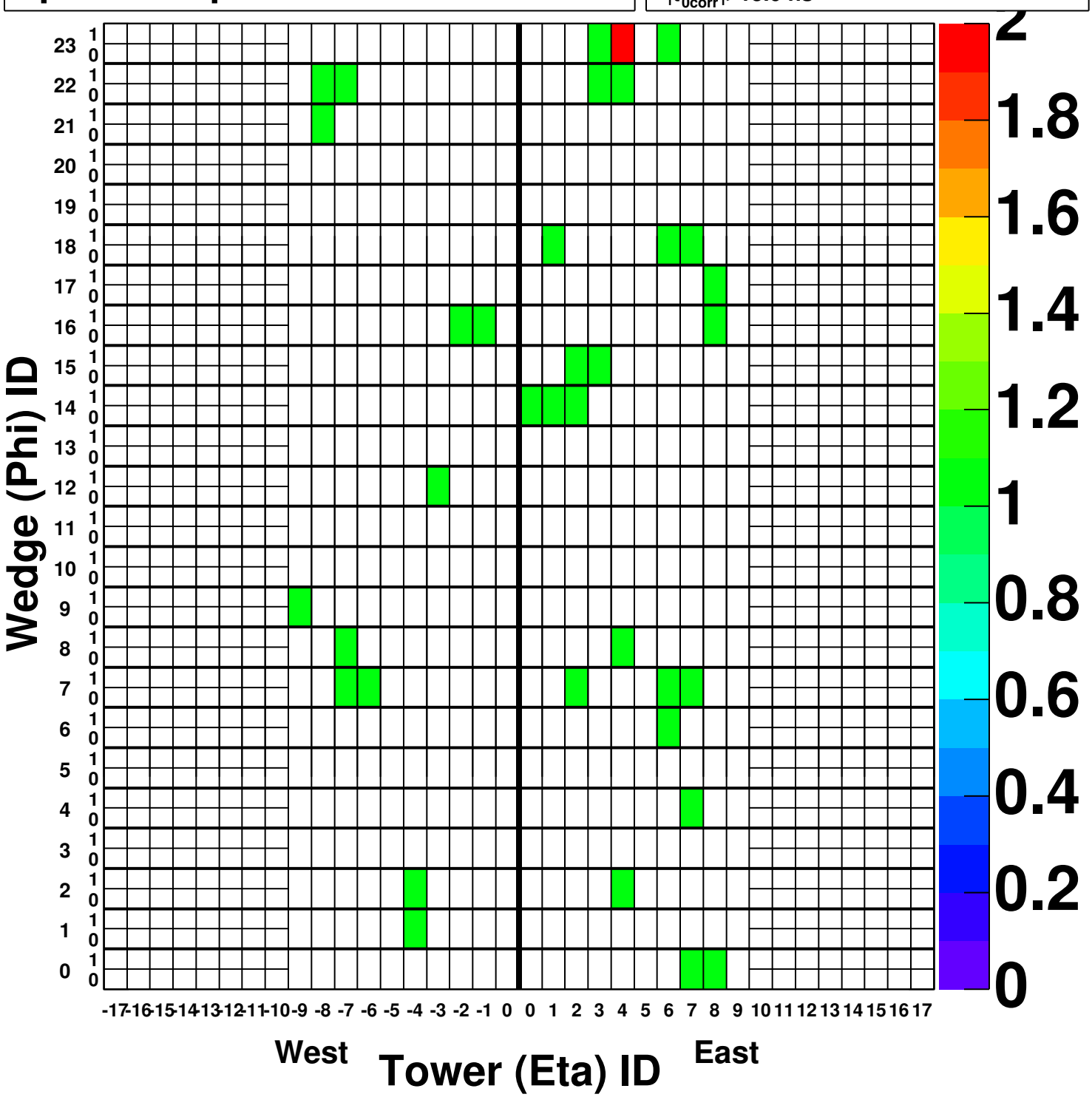
# ObjectMon #18 TimeMonitor EMTD: Corr. t0 Far From Mean

Run:205312 Event: 1620860 # of Events:17072 Time: Sat Oct 8 09:25:13 2005 Ref.Run:204204

## 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



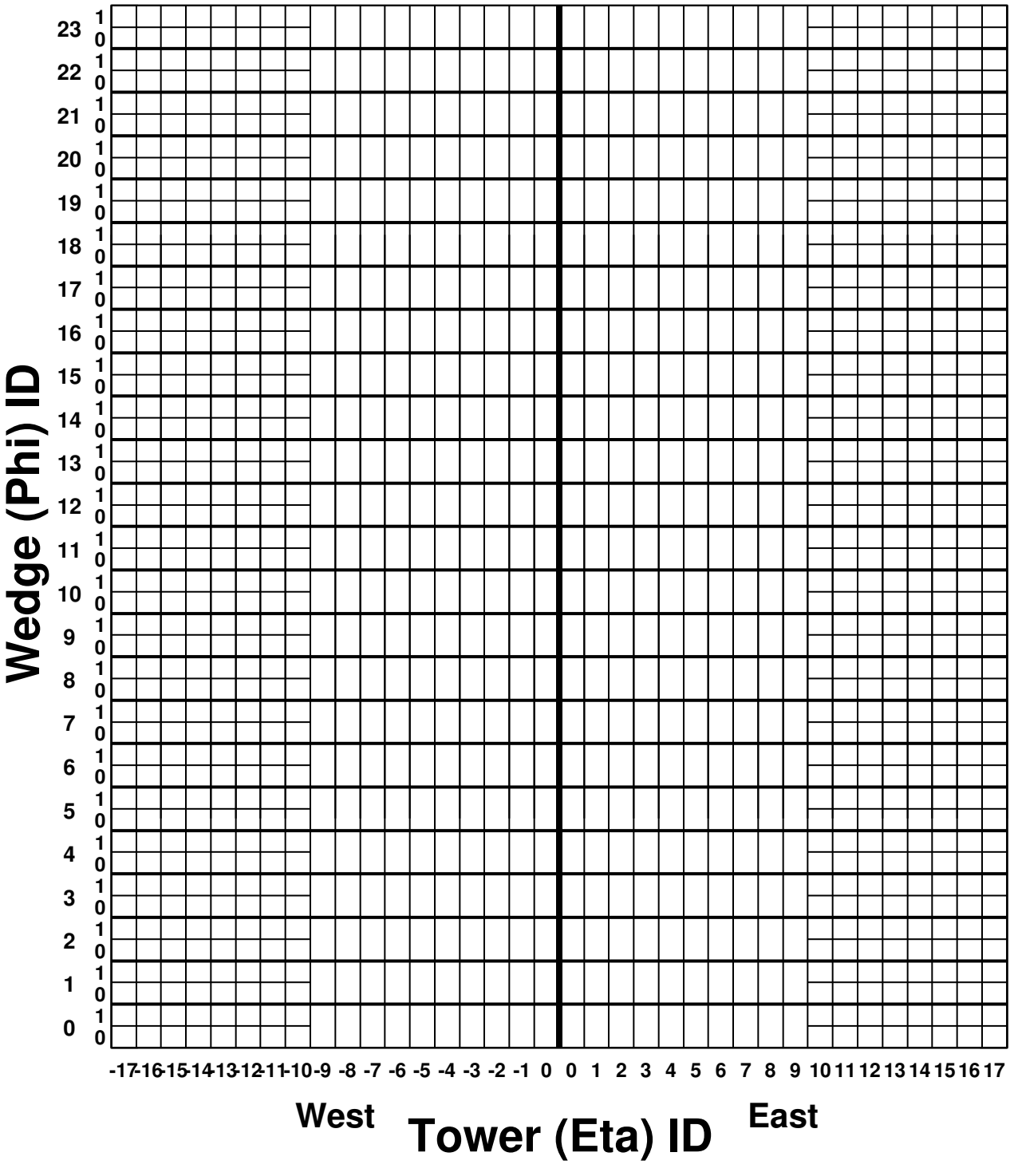
# ObjectMon #15 TimeMonitor EMTD: Fake Firings

Run:205312 Event: 1620860 # of Events:17072 Time: Sat Oct 8 09:25:13 2005 Ref.Run:204204

## 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



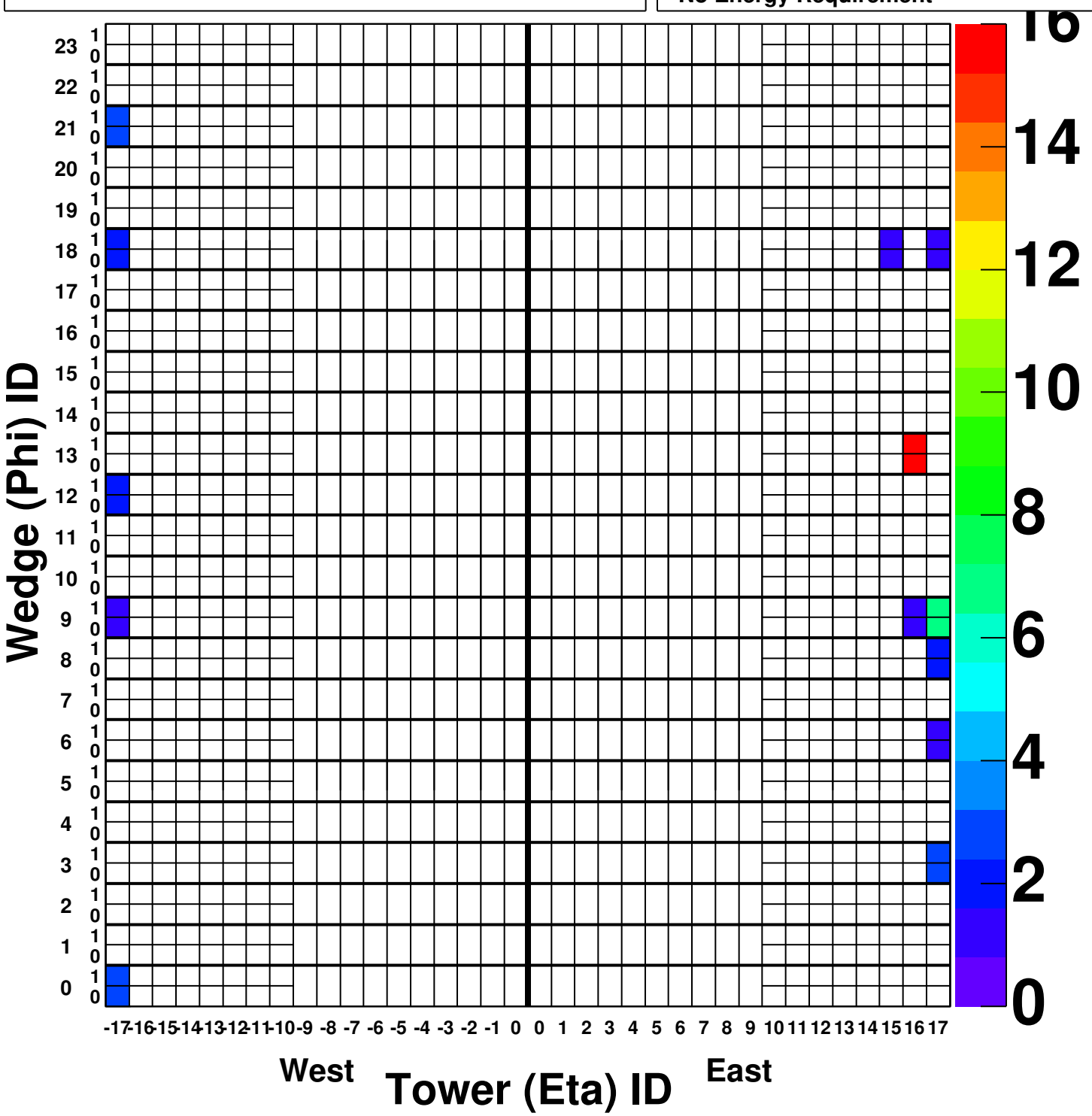
# ObjectMon #17 TimeMonitor EMTD: Multiple Firings & Ok Width

Run:205312 Event: 1620860 # of Events:17072 Time: Sat Oct 8 09:25:13 2005 Ref.Run:204204

**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



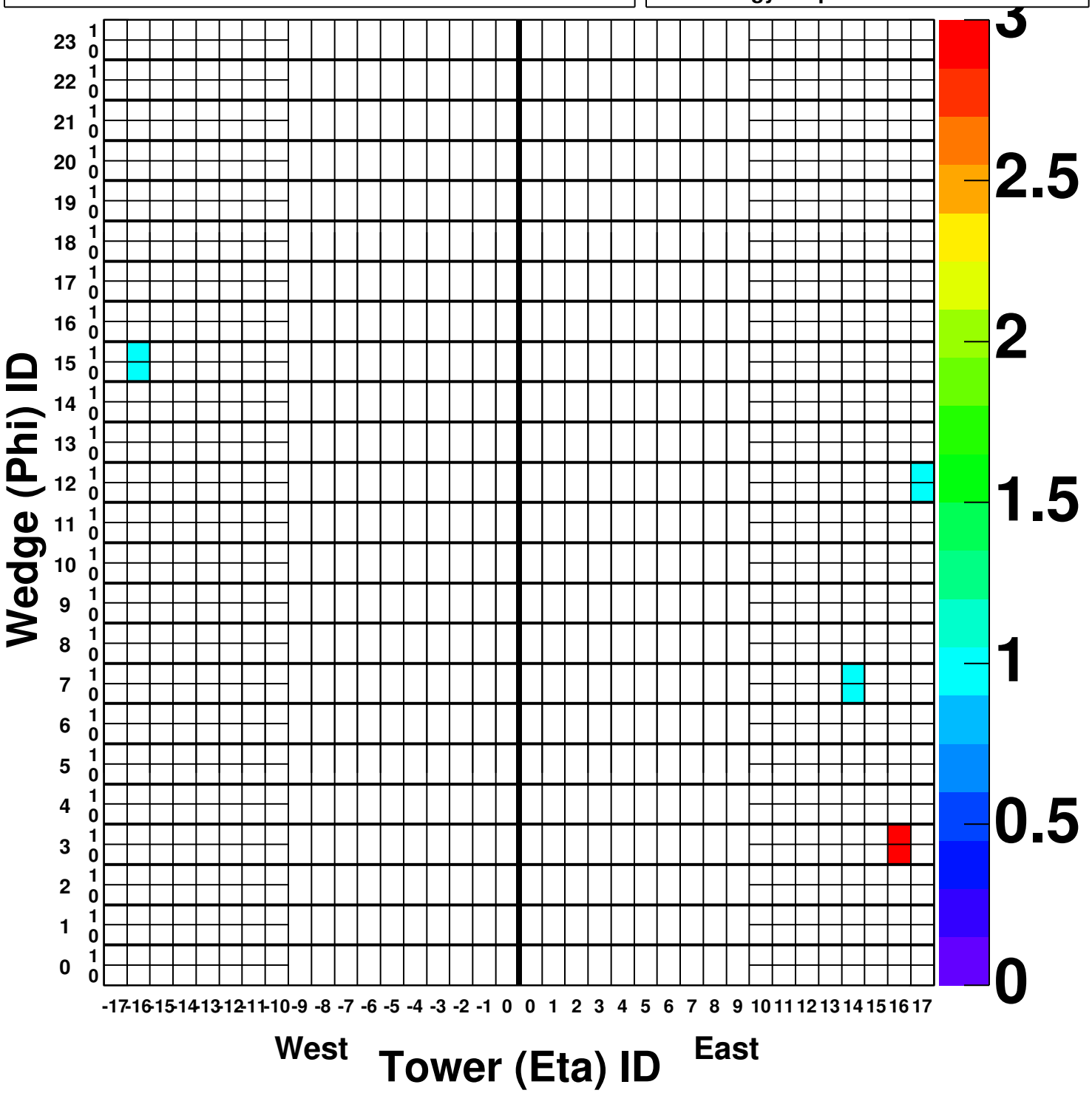
# ObjectMon #16 TimeMonitor EMTD: Multiple Firings & Low Width

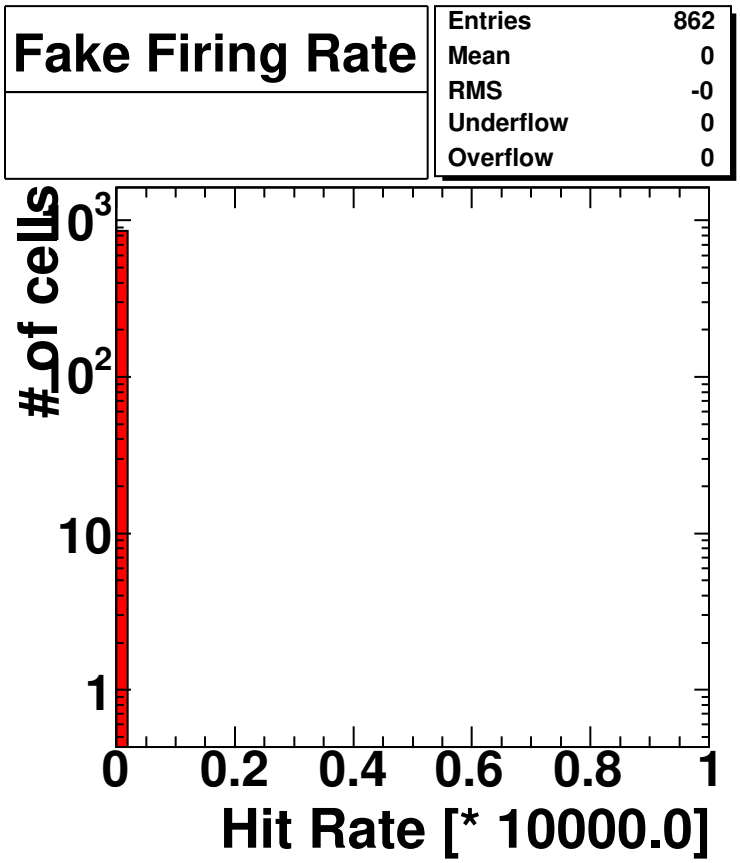
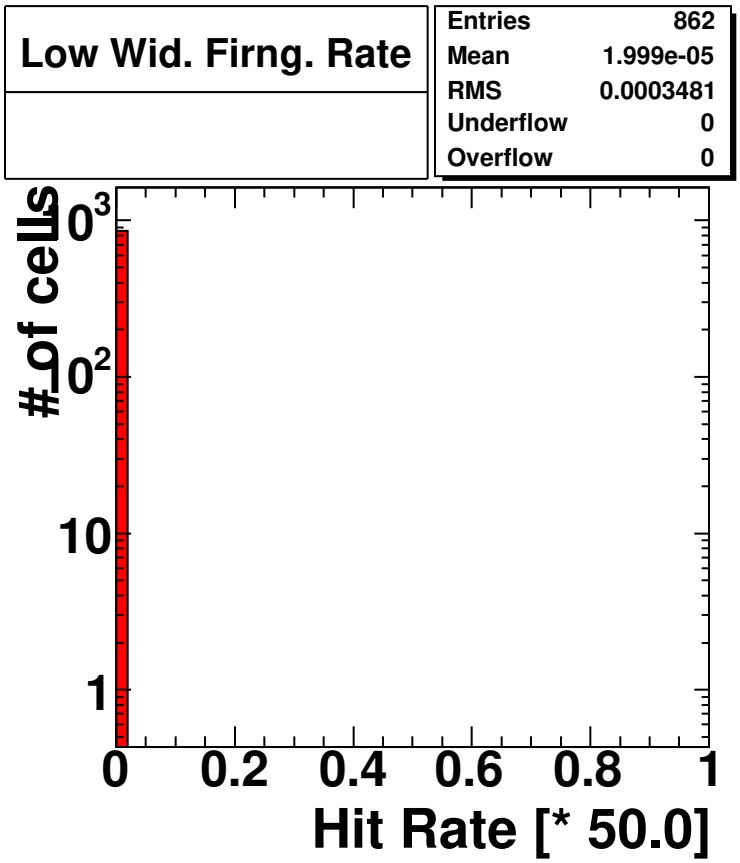
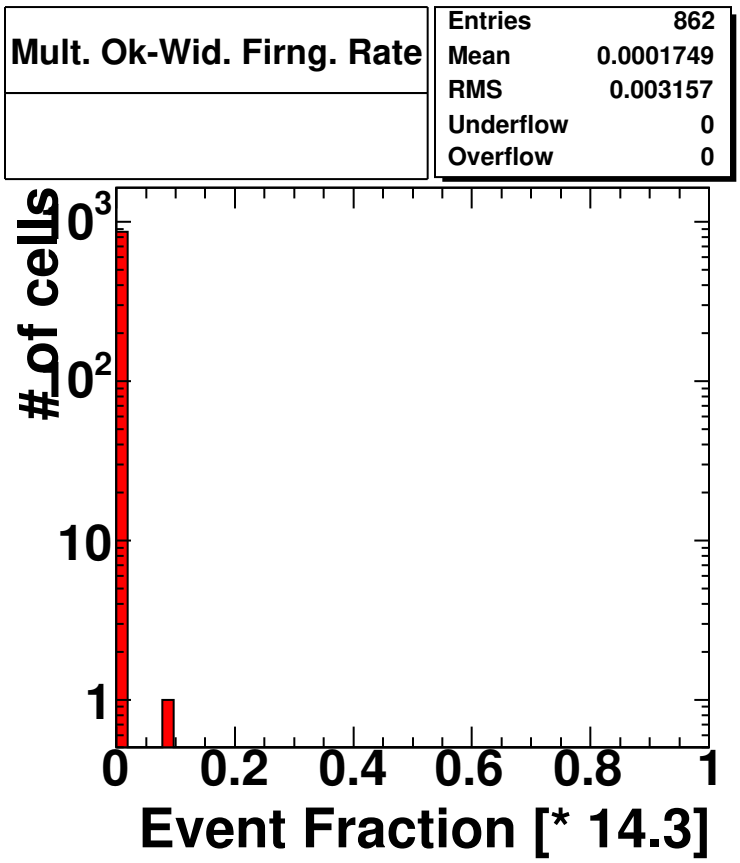
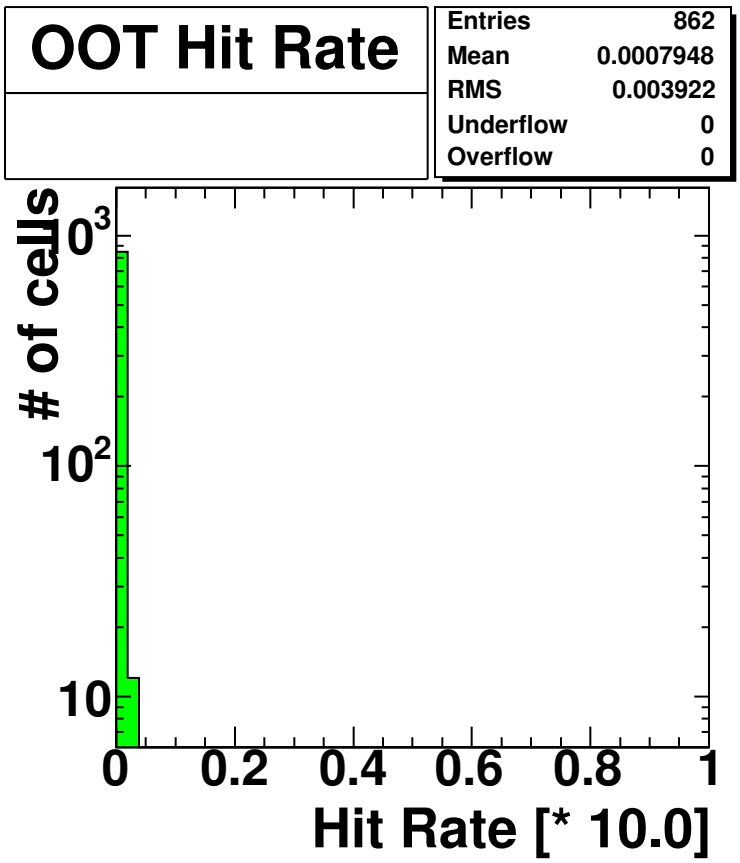
Run:205312 Event: 1620860 # of Events:17072 Time: Sat Oct 8 09:25:13 2005 Ref.Run:204204

## 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:205312 Event: 1620860 # of Events:17072 Time: Sat Oct 8 09:25:13 2005 Ref.Run:204204