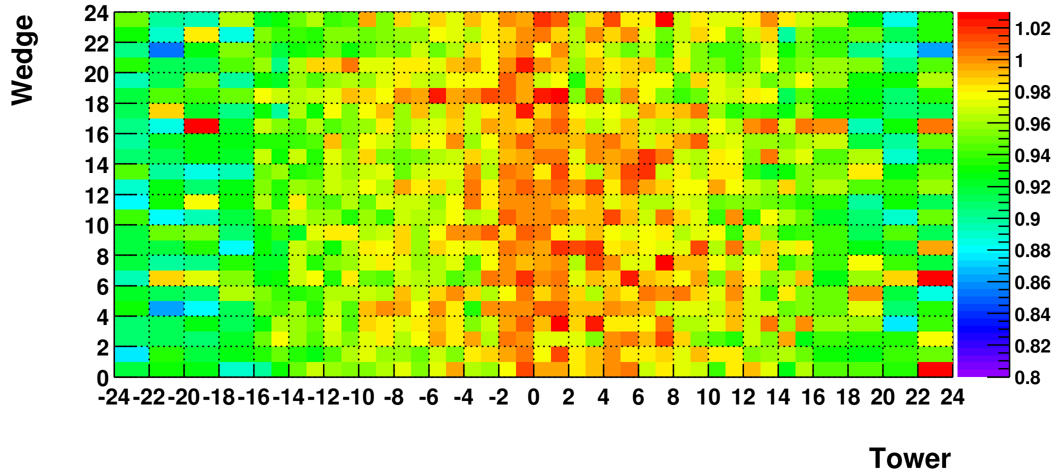
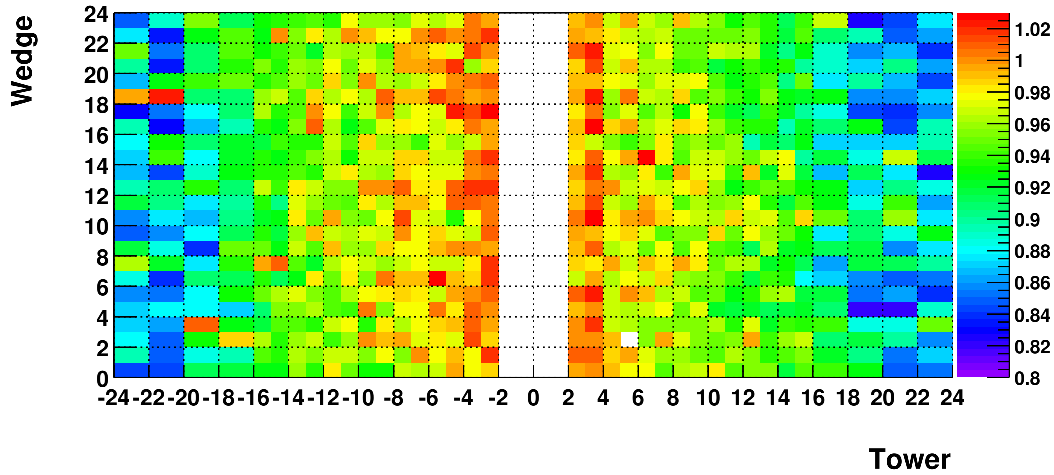
Plug PMT Gain Status

- Howard is working on getting offline LERs to account for the PEM and PHA PMT gain loss
- Plug laser response ratio: 02Jun02 over 14Dec01
  Response in lowest two η rings normalized to 1

PEM, Ratio of runs 145657 and 134898, 2d Dist average to 1

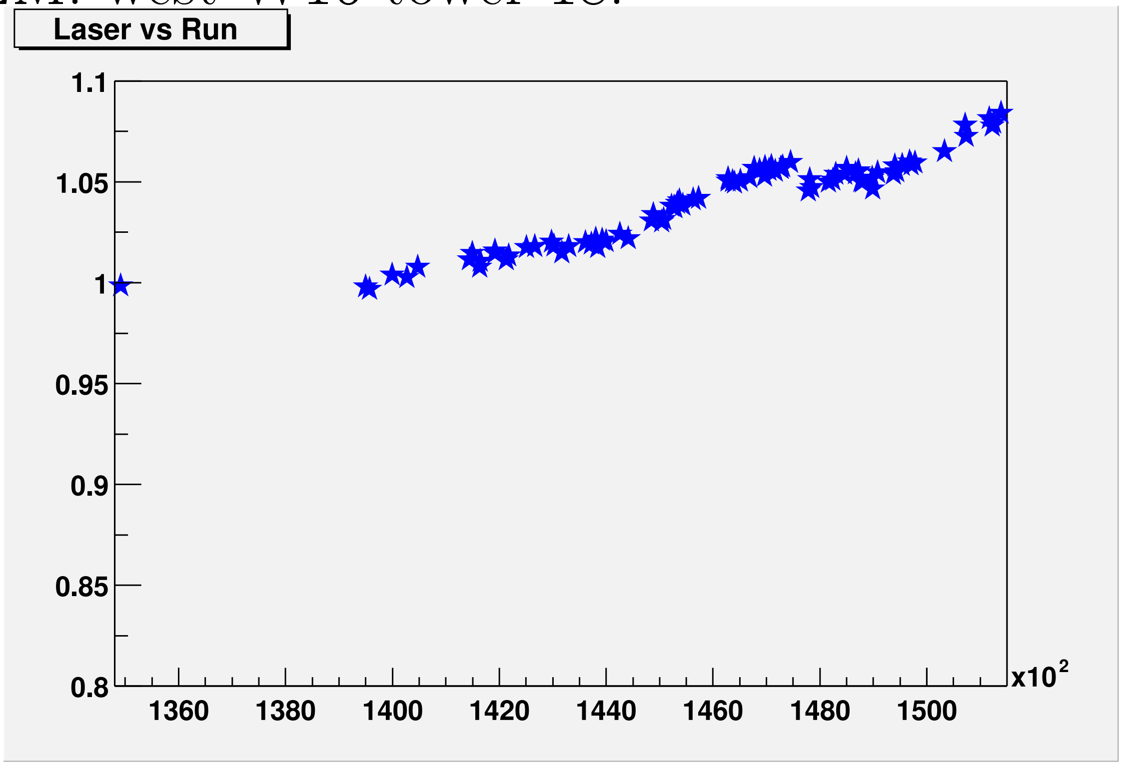


PHA, Ratio of runs 145657 and 134898, 2d Dist average to 1

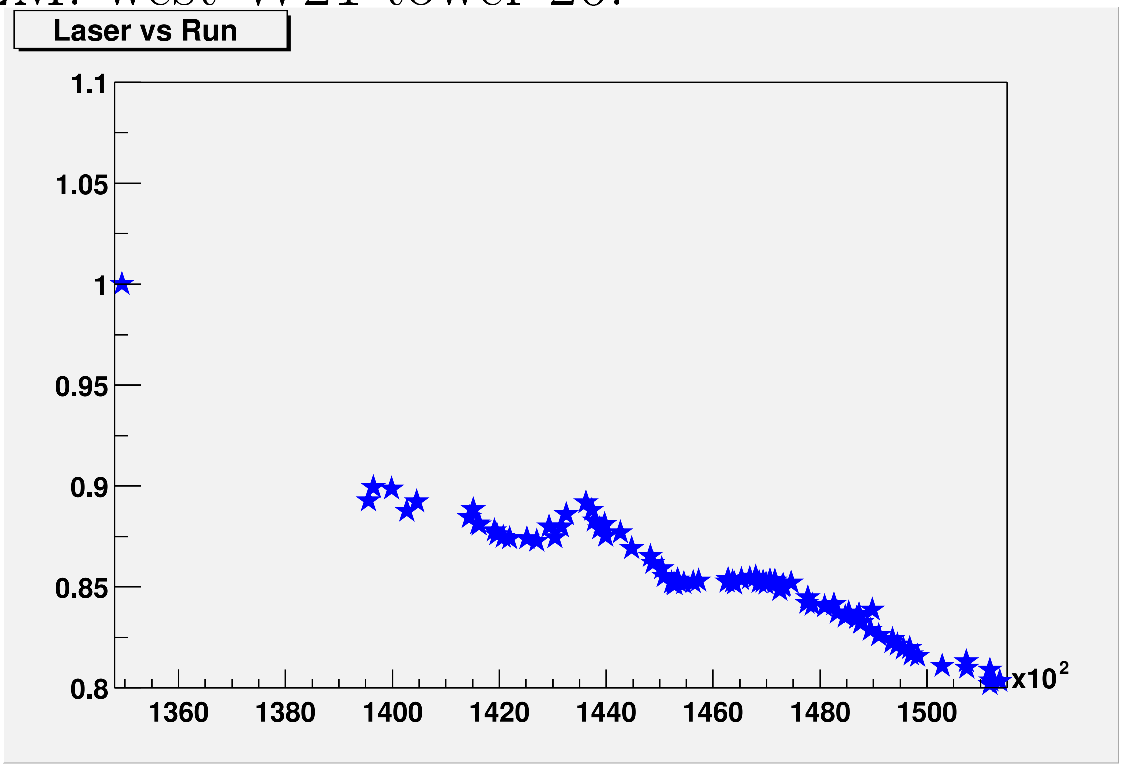


- Most PMT gains go down, but some go up

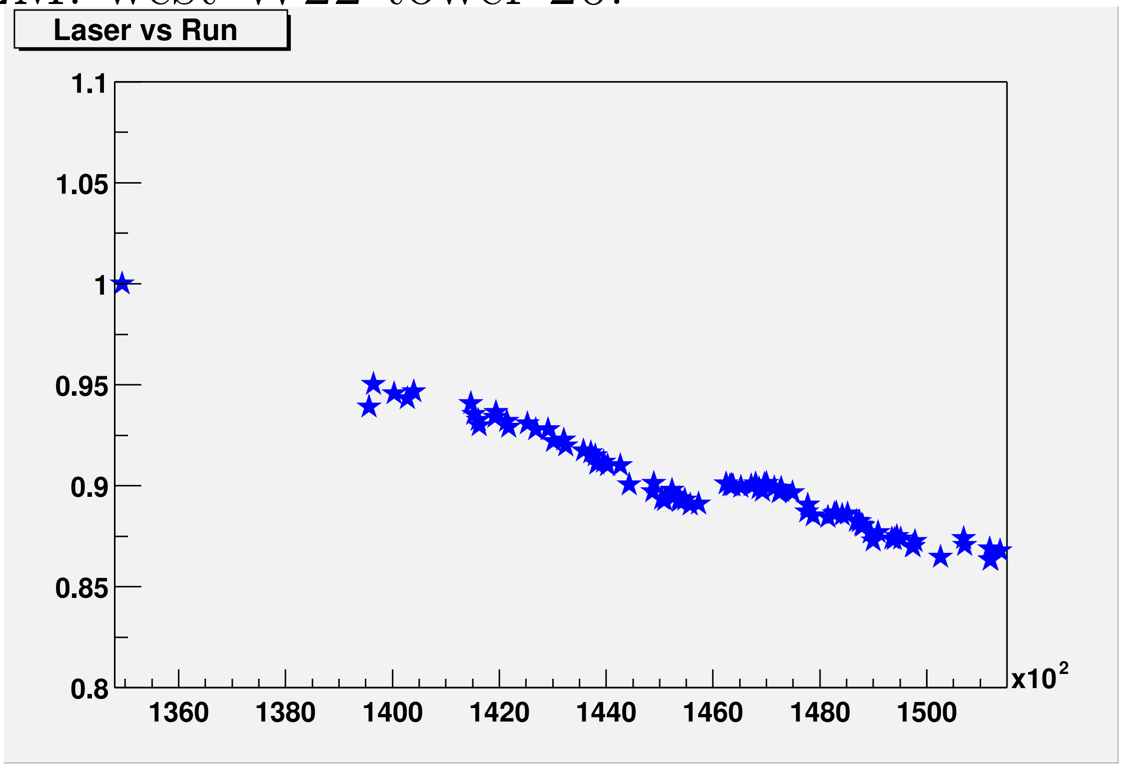
PEM: west W16 tower 18:



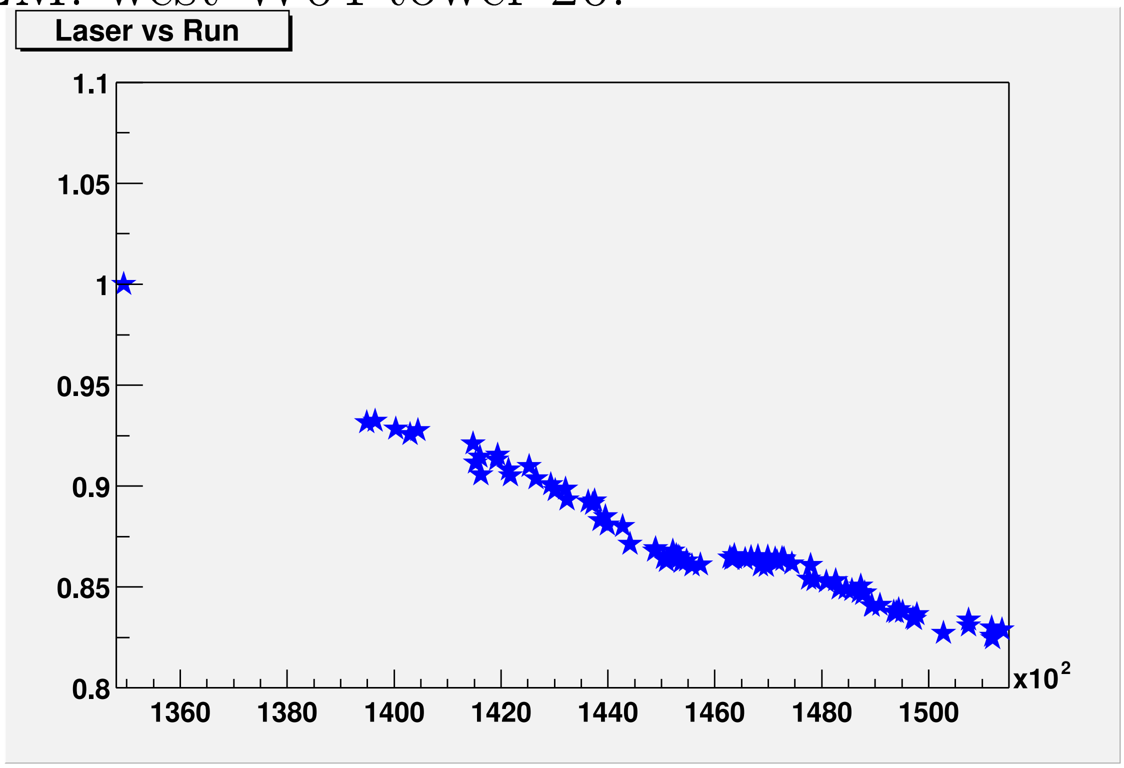
PEM: west W21 tower 20:



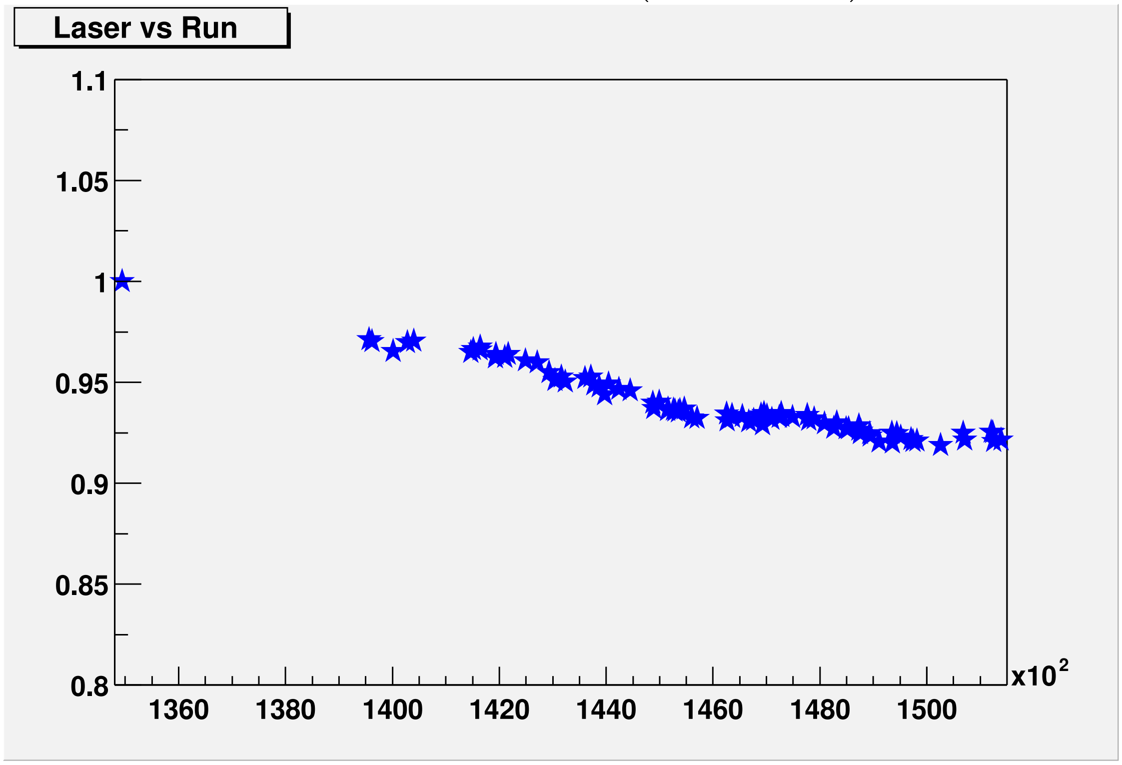
PEM: west W22 tower 20:



PEM: west W04 tower 20:



PEM: west W10 tower 10 (mid - η):



- Plans
  - The highest 4 η towers have had their PMT gains reduced by a factor or 0.5, 0.4, 0.22, and 0.22 on 23 Sep 2002. The ADMEM LERs have been boosted to keep the overall gain the same
  - We are working on PEM and PHA LERs using plug laser calibration data that would correct the overall plug gains back to Dec01 or Jan02.

– Howard is working on a run and tower dependent LER correction to track the PMT gain losses using laser data. At the moment, we have no confidence in the absolute gain from the laser calibrations. We normalize by forcing the lowest two η ring responses to 1

Bad/Dead Channel Database

- New proposal for tower based systems: use Rick's ascii text file format
- Not clear if we want one table for all calorimeters or a table for each calorimeter (ie CEM, CHA, ...)
- Dead/bad channel entry in the table
  - ▷Entry number (0,1,2,...)
  - ▷Detector (CEM, CHA, ... optional)
  - ▷Run range start
  - ▷Run range end
  - ▷LID (aka geomid)
  - ▷32 bit code