

Laser Stability Update

Thomas Wester

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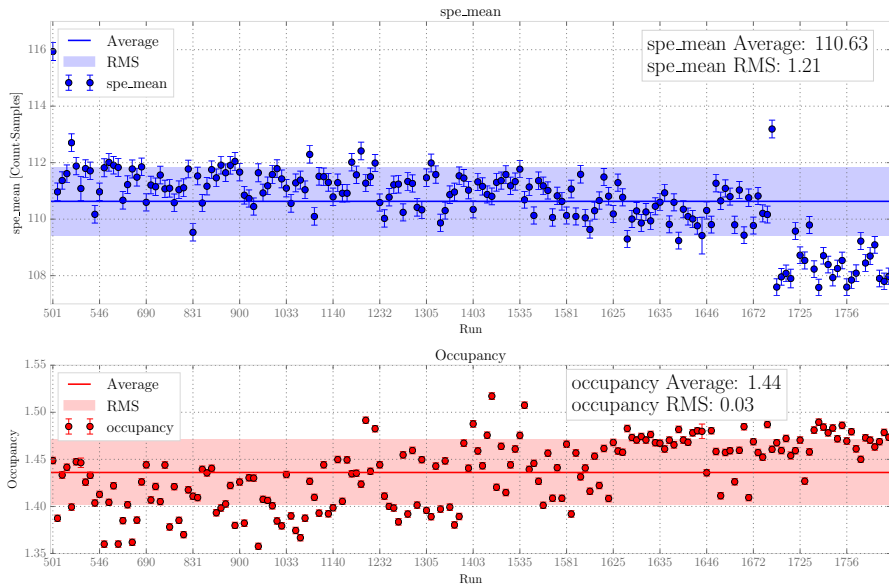
Last Time

- ▶ Verified the SPE calibration code was working
- ▶ Tweaked `int_frac_threshold` parameter to 0.25
- ▶ Reprocessed all the runs

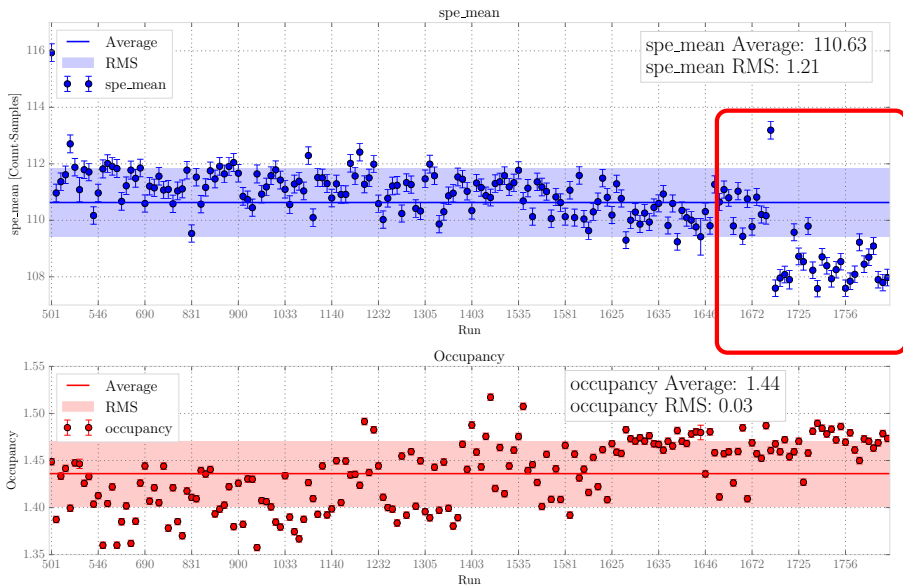
Now we can look at all the runs with the latest software and fcl settings.

Runs shown are laser runs with 1450V PMT bias.

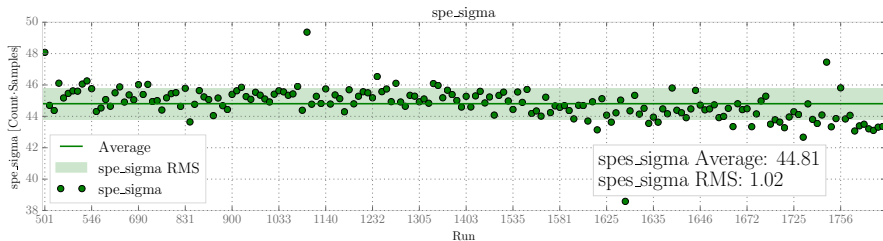
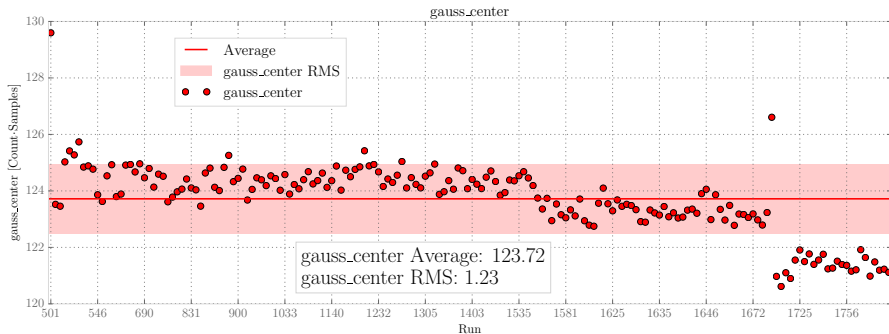
spe_mean and occupancy



spe_mean and occupancy



gauss_center and spe_sigma



Further Steps

In addition to looking through the ELOG to determine the cause for the drop in SPE mean, the following runs were not included in this study:

521 523 524 525 526 527 1207 1233 1281 1282 1283 1329
1606 1608 1647 1648 1793 1798

Common problems:

- ▶ Low mean
- ▶ High uncertainty
- ▶ “inf” or “NaN” values

Also looking at the same parameters for runs of different sources or drift fields may be enlightening.