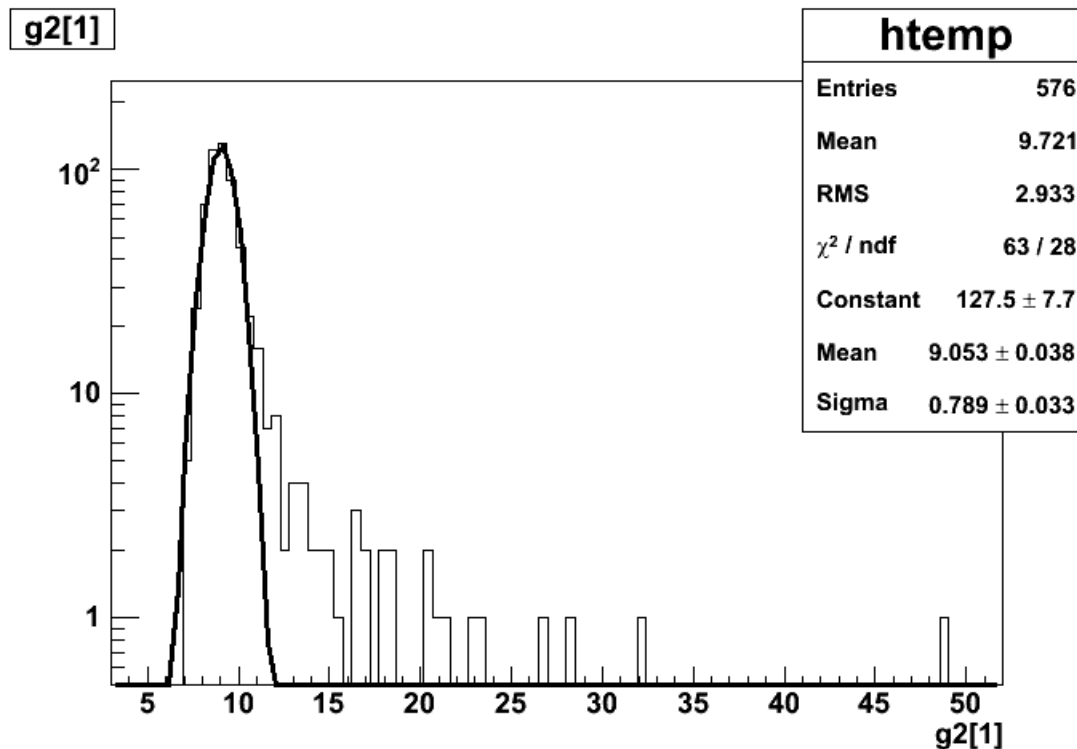


HEX8/LEX1 intercalibration

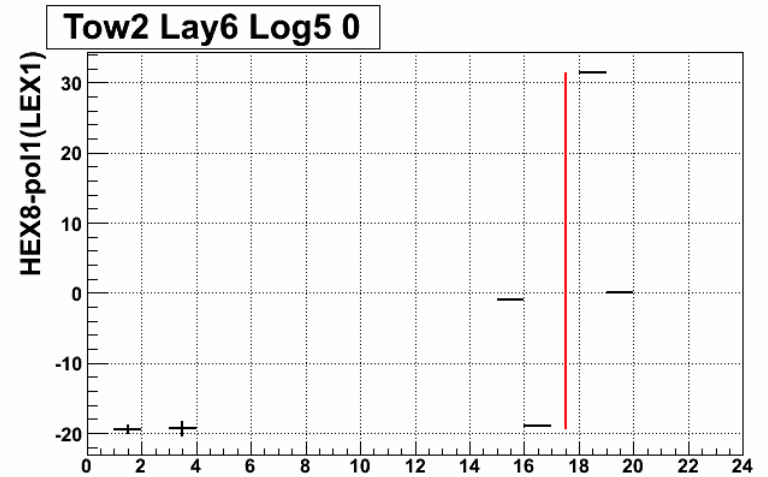
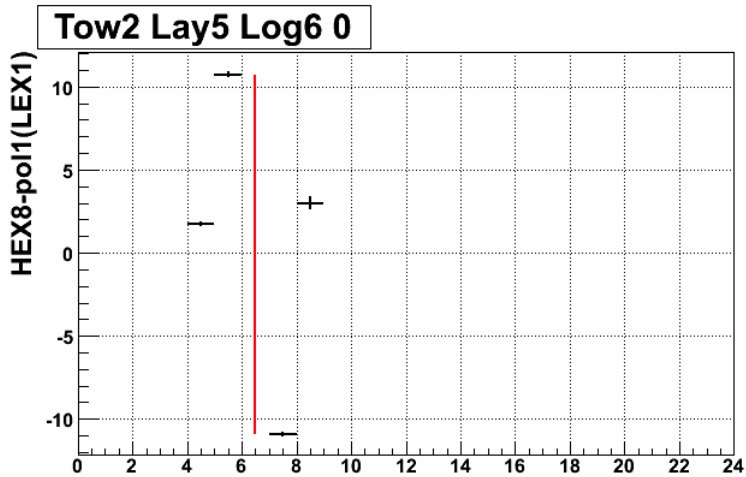
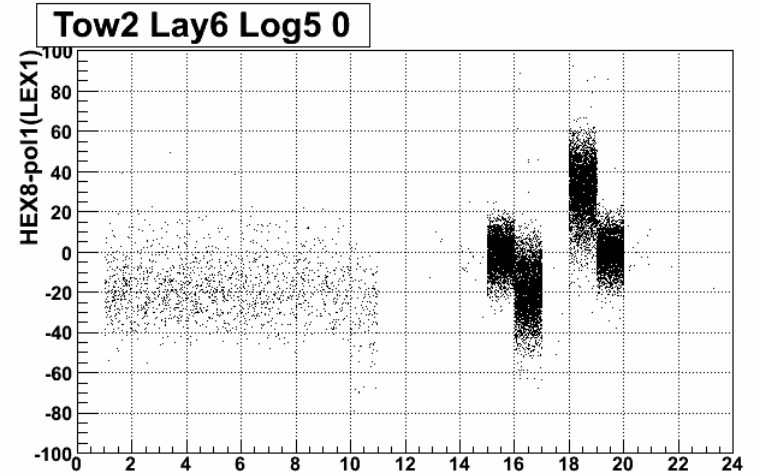
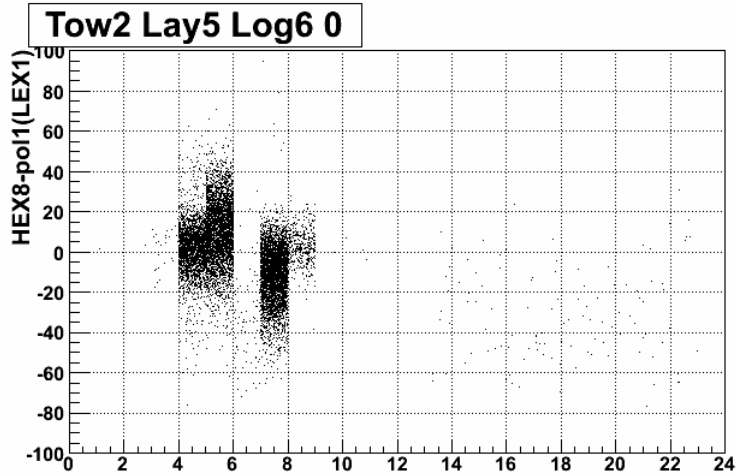
- What's new from last week :
 - X-talk between crystal provided by Sasha
 - Using both PS and SPS BT16 runs
- The new calorimeter calibration is in the database
- A first set of runs have been reprocessed with this new calibration

Reminder from last week : residuals sigma

Sigma > 12 -> there is a problem !

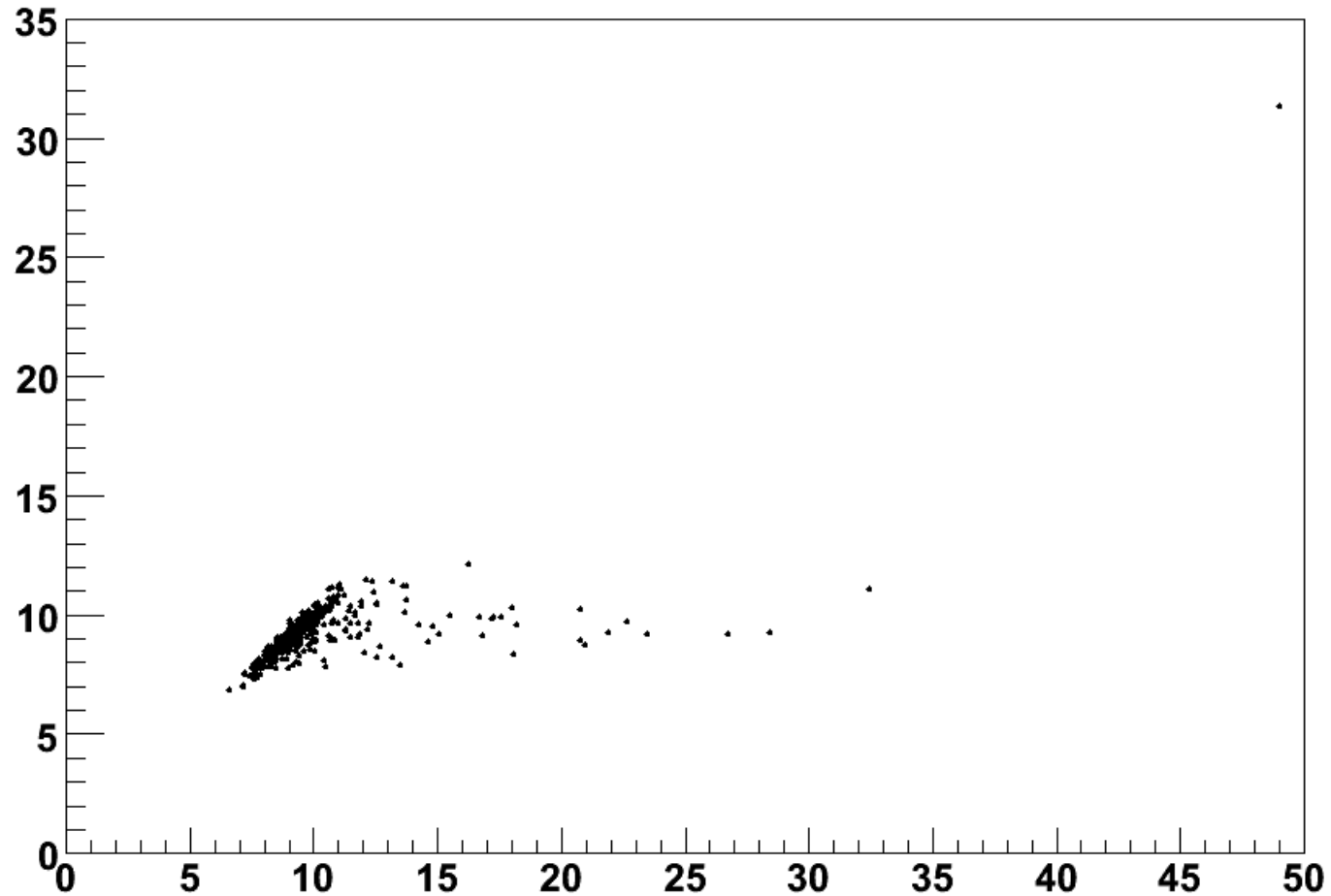


Reminder from last week

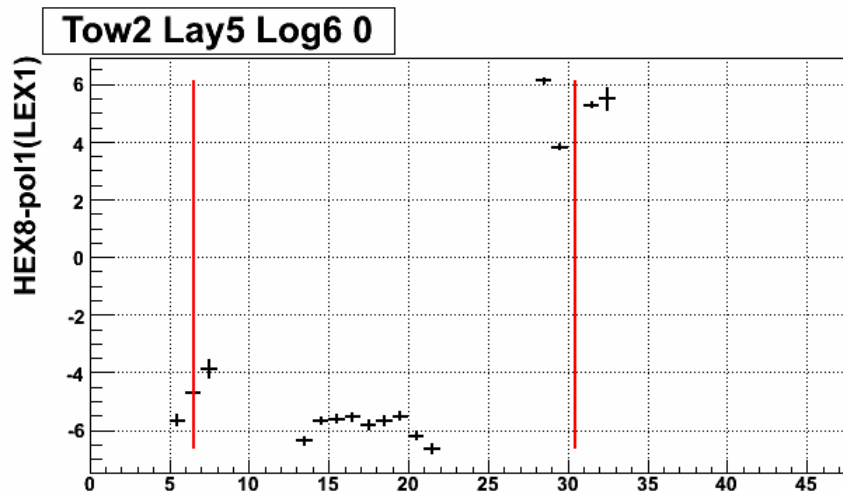
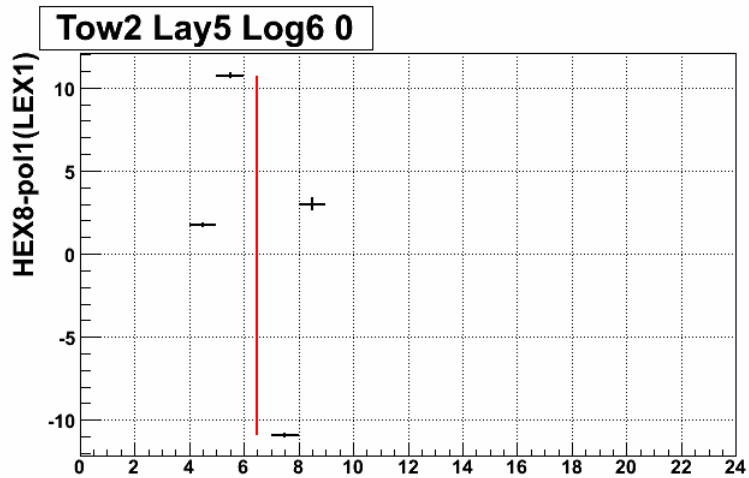
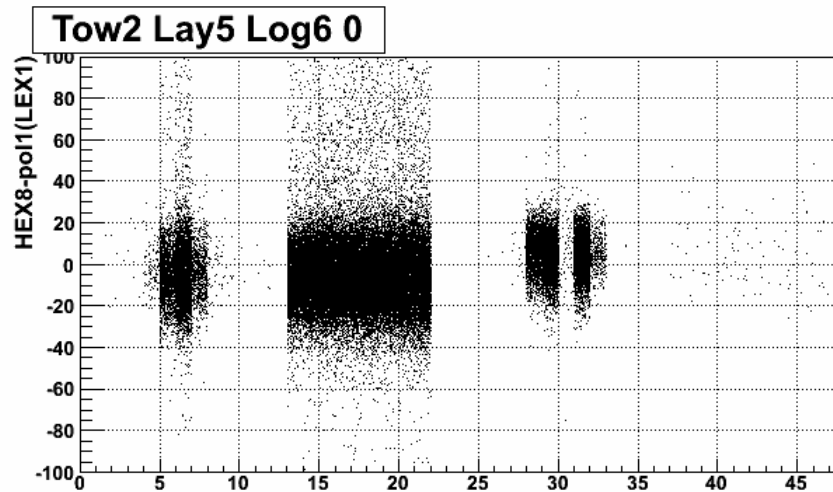
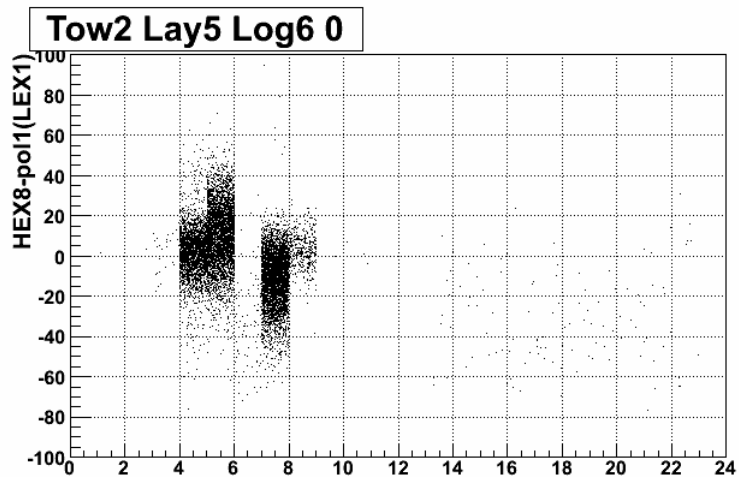


Crystal x-talk correction

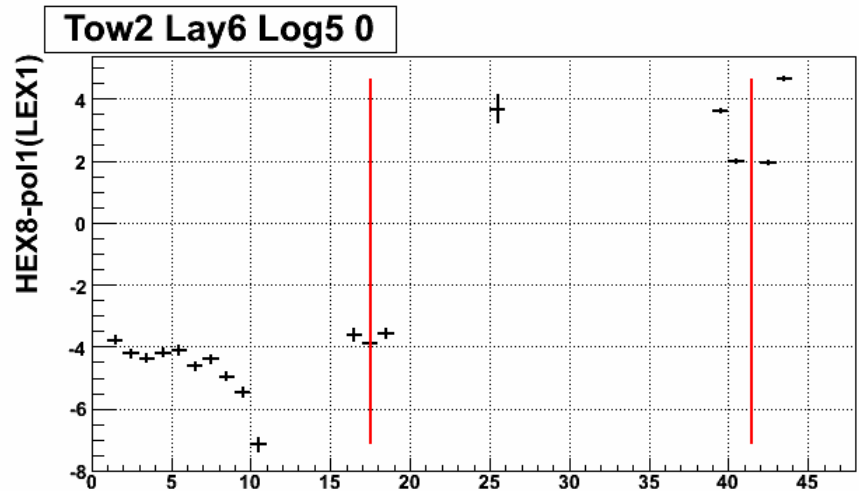
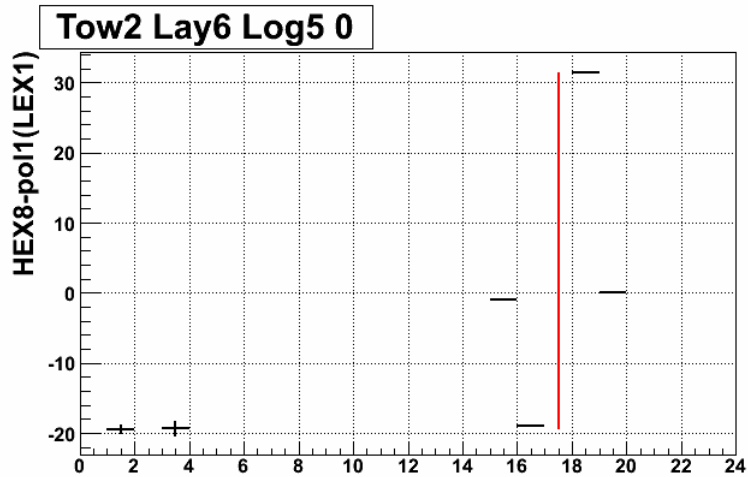
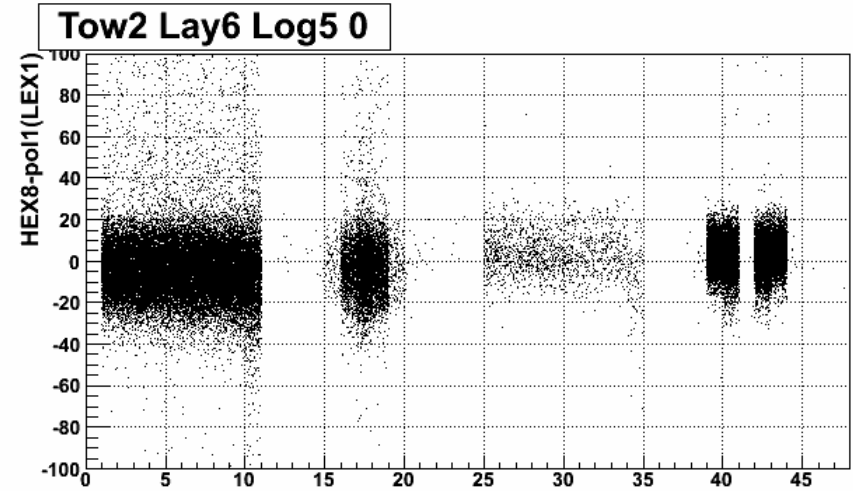
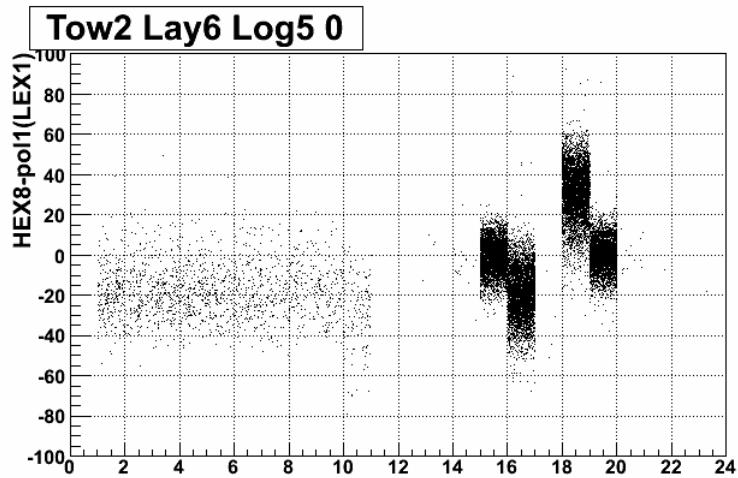
residuals sigma after xtalk correction versus before



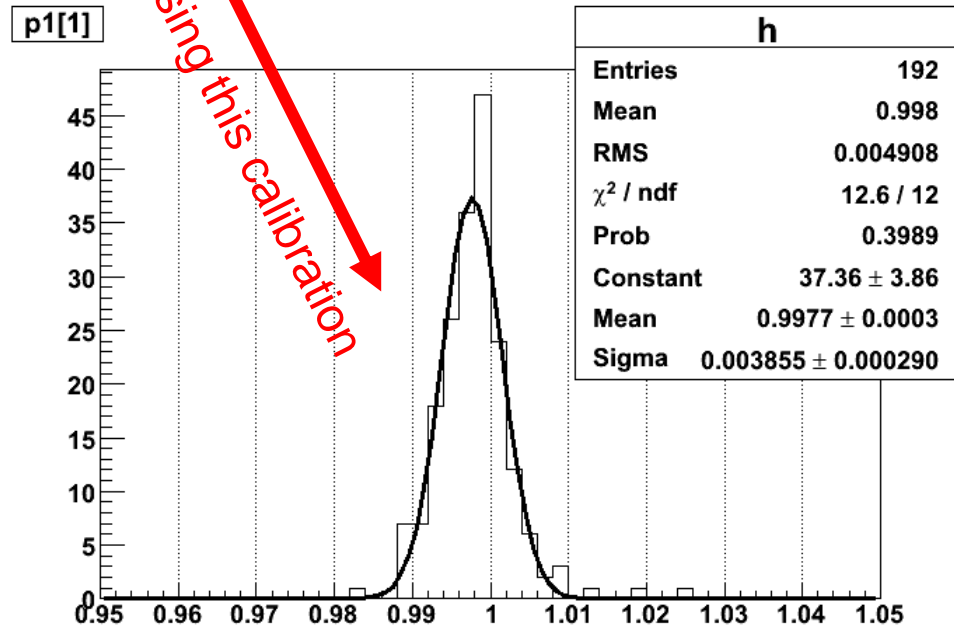
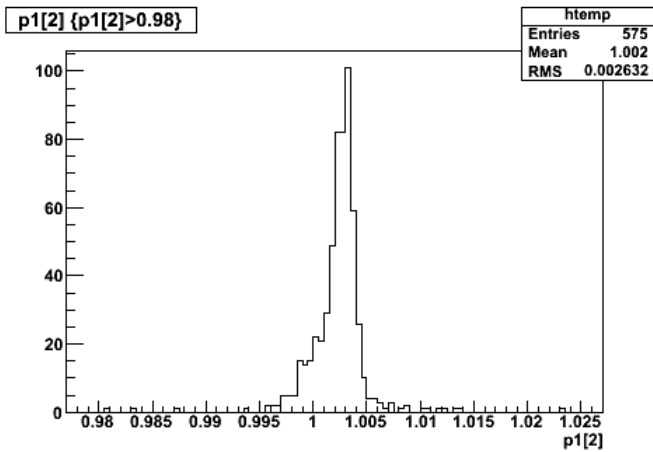
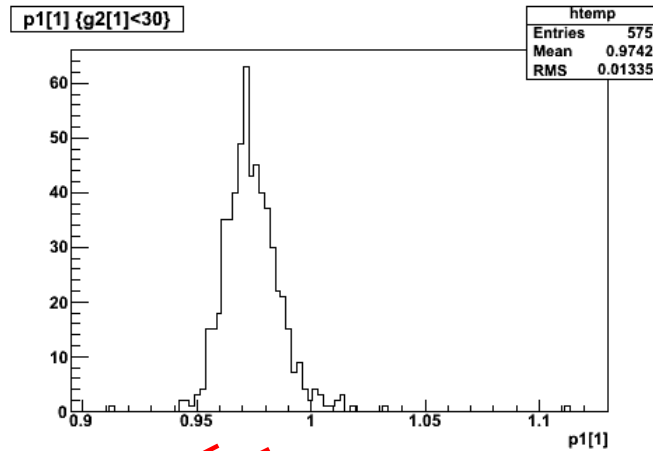
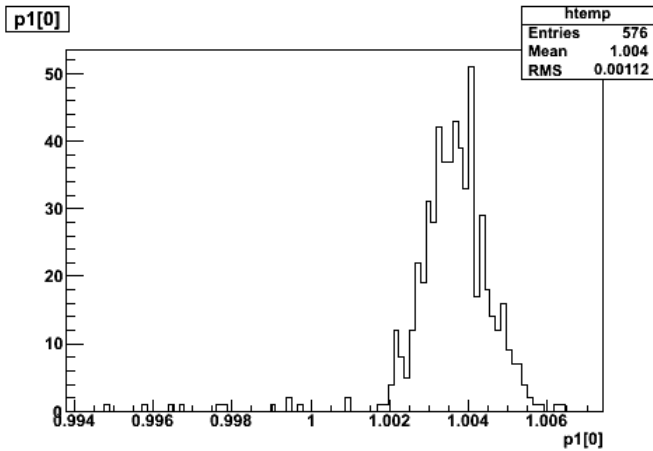
Before and after coorection + PS data



Before and after correction + PS data



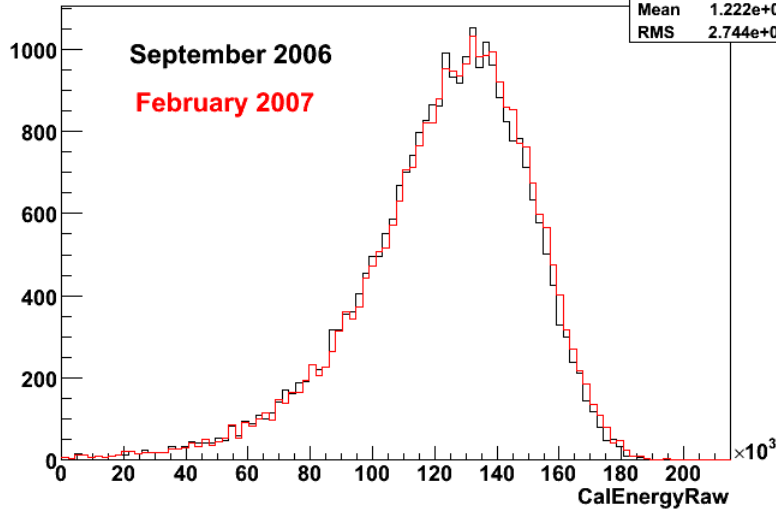
All slopes : LEX1/LEX8, HEX8/LEX1, HEX1/HEX8



Effect on CalEnergyRaw...

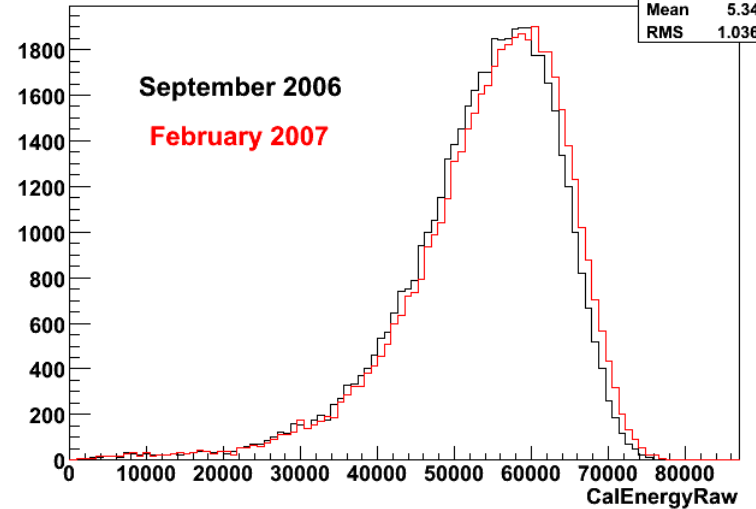
700001922 - 280 GeV

| htemp | |
|---------|-----------|
| Entries | 28069 |
| Mean | 1.222e+05 |
| RMS | 2.744e+04 |



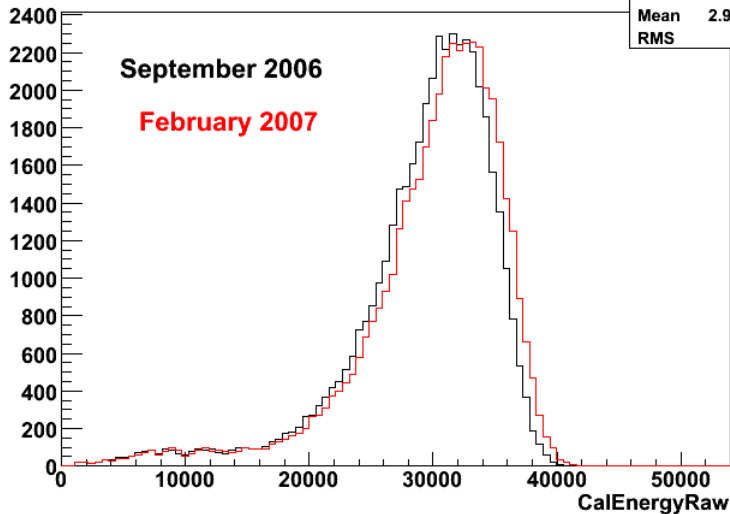
700002024 - 100 GeV

| htemp | |
|---------|-----------|
| Entries | 48218 |
| Mean | 5.34e+04 |
| RMS | 1.036e+04 |



700002039 - 50 GeV

| htemp | |
|---------|-----------|
| Entries | 45389 |
| Mean | 2.923e+04 |
| RMS | 5855 |



1% more energy with this new calibration -> We still have data/MC ~10%...

Conclusions

- Xtalk between crystals correction is needed to perform a coherent calibration
- It has to be included in `CalXtalResponse`
- So far (w/o xtalk between crystals correction) we still have a data/MC discrepancy of about 10%...
- Any idea ?