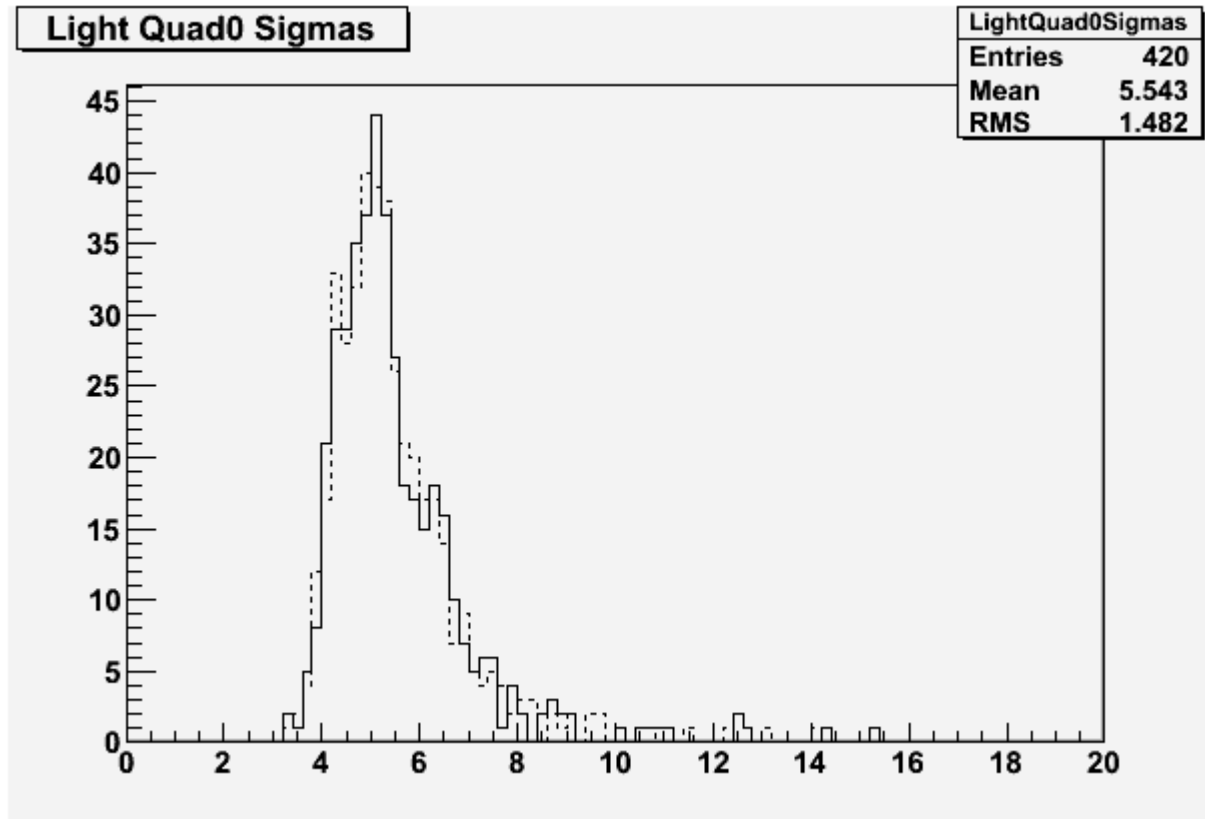

Some sensor noise measurements

Paul Dauncey

Dependence on settings

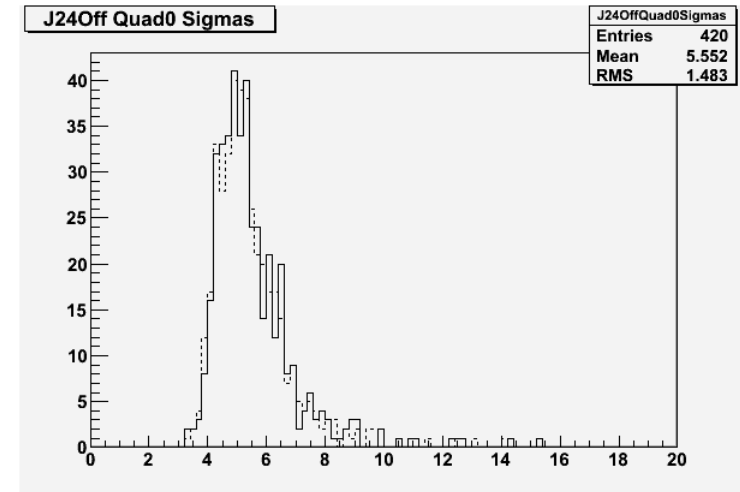
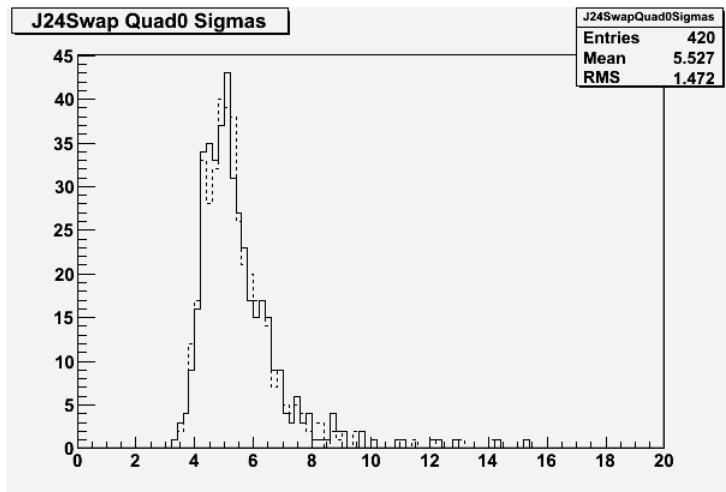
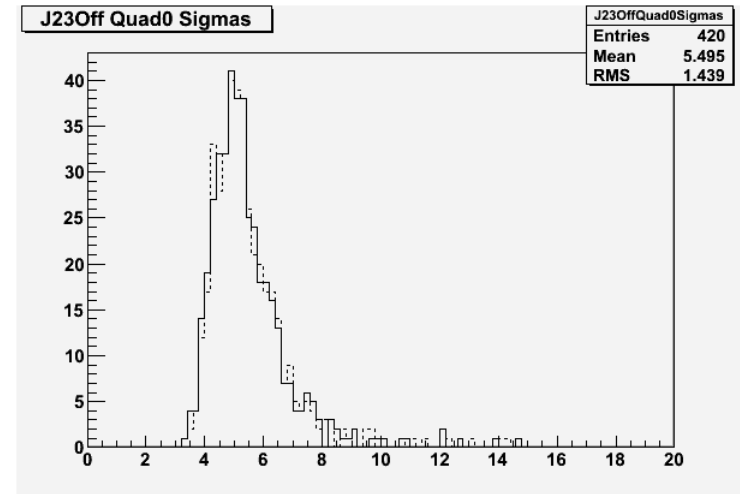
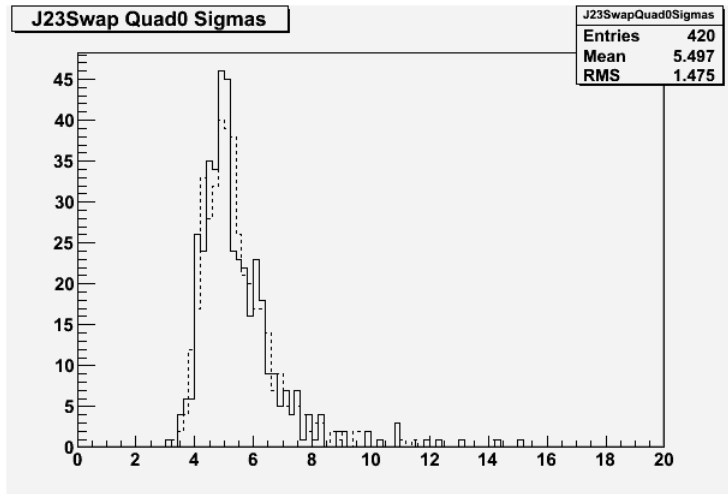
- With (solid) and without (dashed) strong desk lamp



- Higher noise unlikely to be due to light leaks

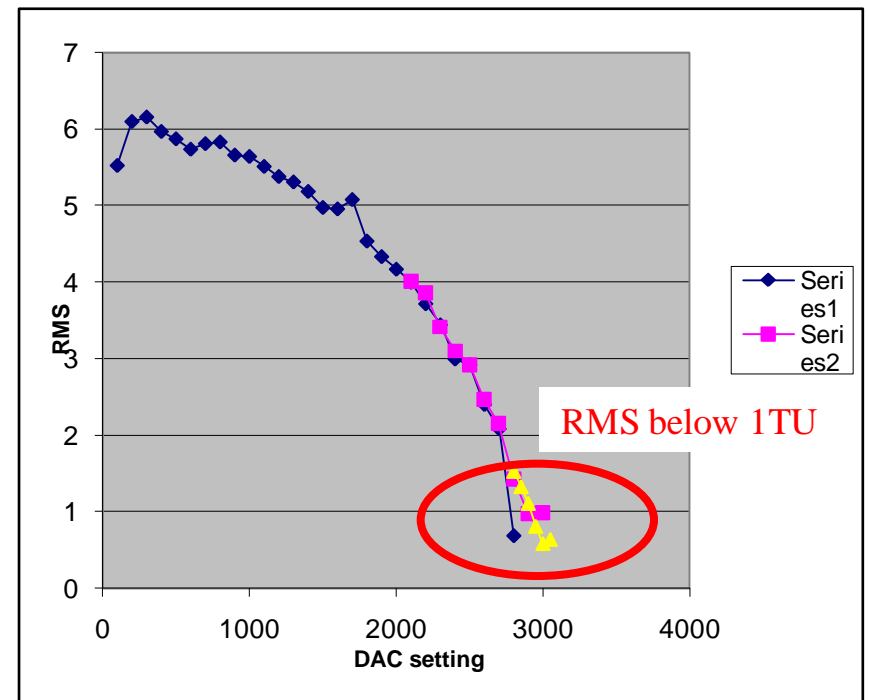
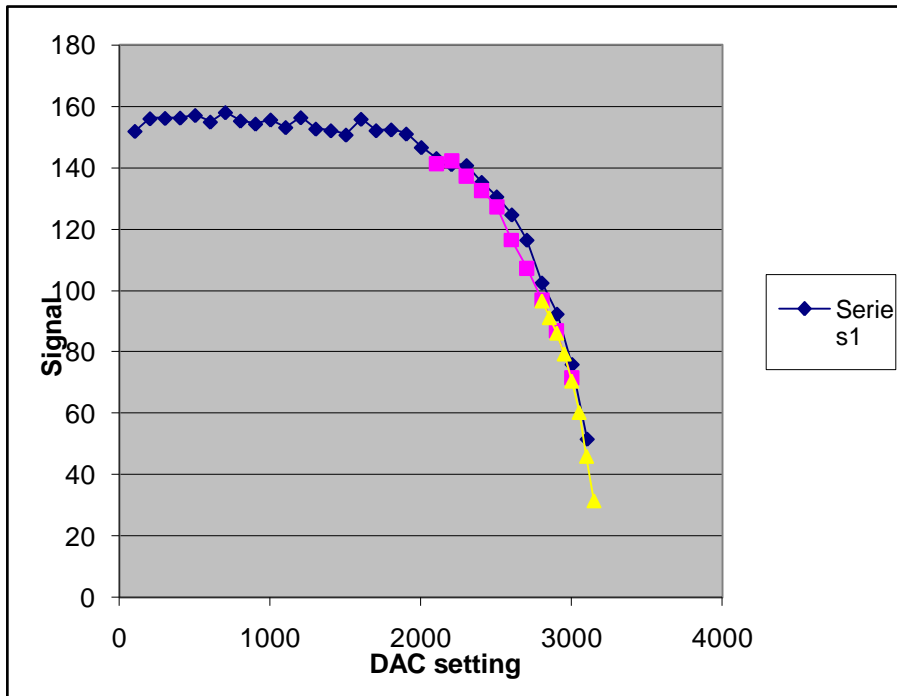
PCB jumpers

- Set J23 (top) and J24 (bottom) to alternate position (left) or remove (right)



Relook at i12CompBias2

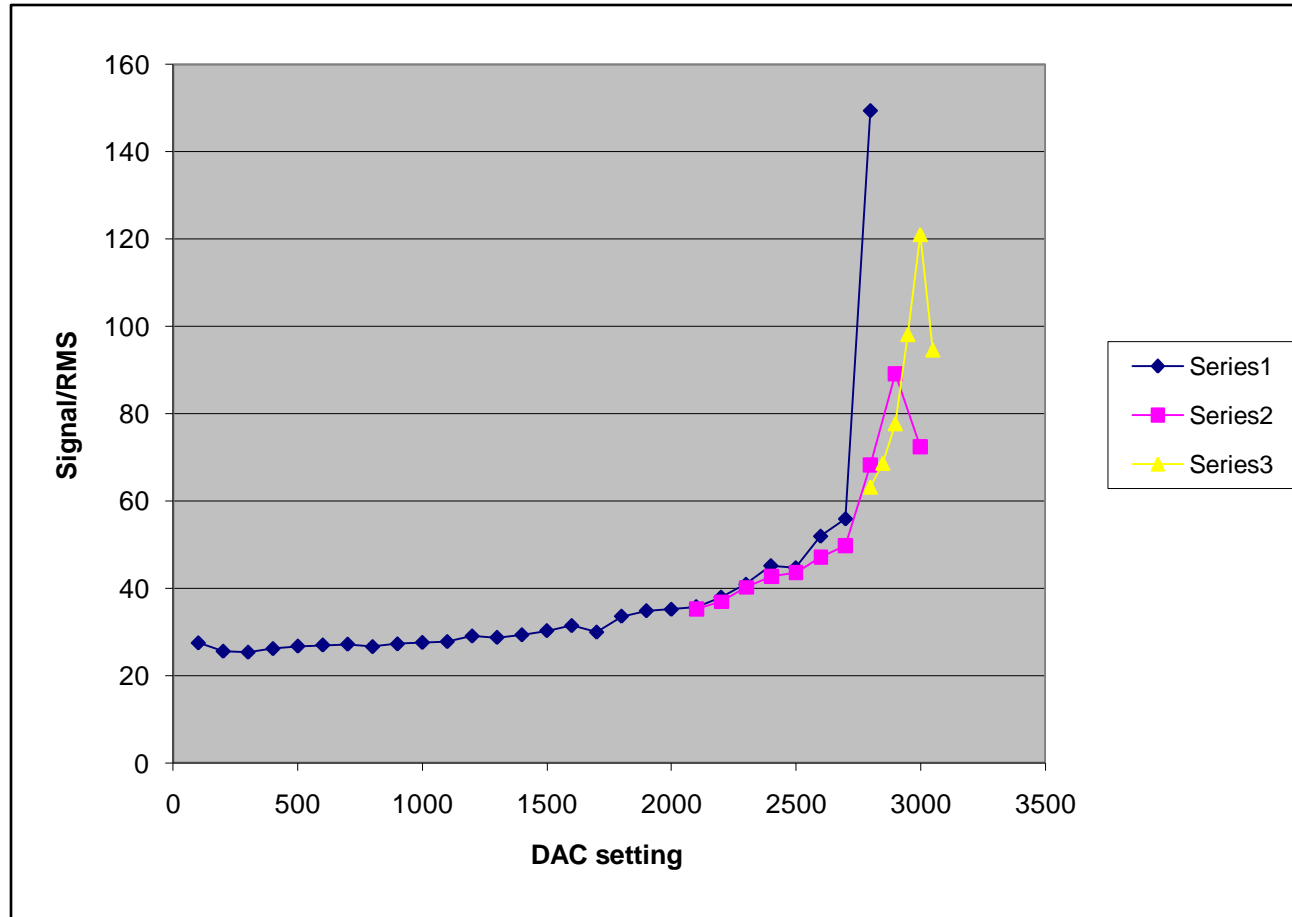
- Previously saw a significant change to S/N; noise from comparator?
- Recheck with a different pixel
- Use laser to give fixed signal size; vary i12CompBias2



- Different colours are different groups of runs
 - Blue was steps of 4TU, pink and yellow 1TU

Signal/Noise ratio

- Take ratio to get signal/noise



- Seems like a factor ~ 3 improvement in S/N...
- ...but could not see a Fe55 signal with a brief run