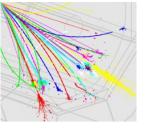


More TPAC 1.1 Items Marcel Stanitzki RAL 16.01.2009

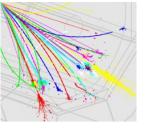




News

- Some note from last meeting
 - 335 MHz peak is from elsewhere
 - Mike has acucmulated lots of numbers
- All values have not been adjusted for the 0.9x0.9 gain reduction

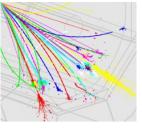




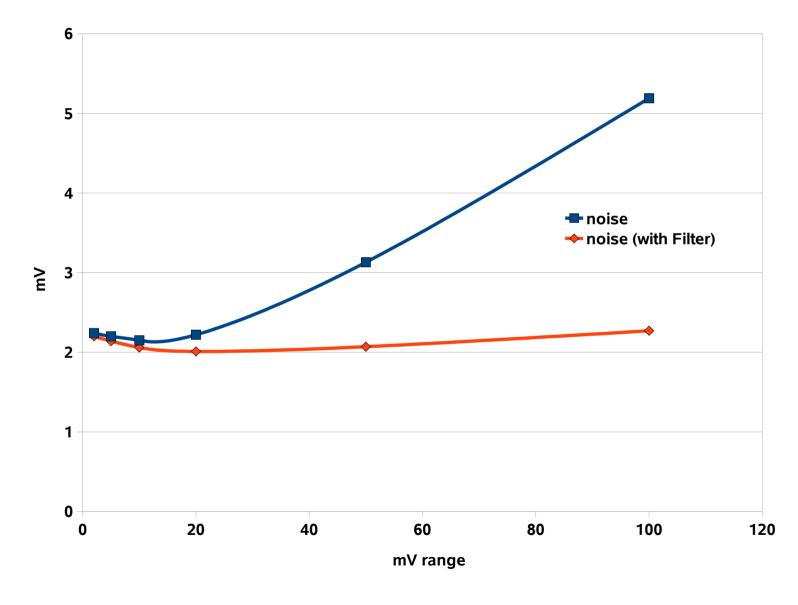
Measuring Noise

- Some funny effects noted
 - Noise measurement dependent on Voltage range
- We always measured with the same setting
 - the noise (few mv)
 - the signal 50 mV or more





This is what you get ...



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4

More checks



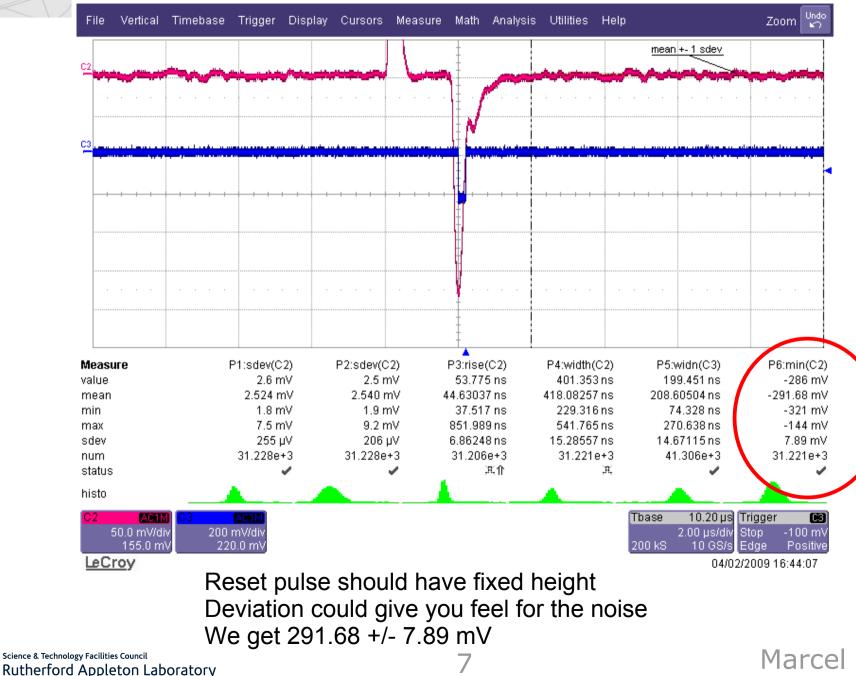
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Different scale

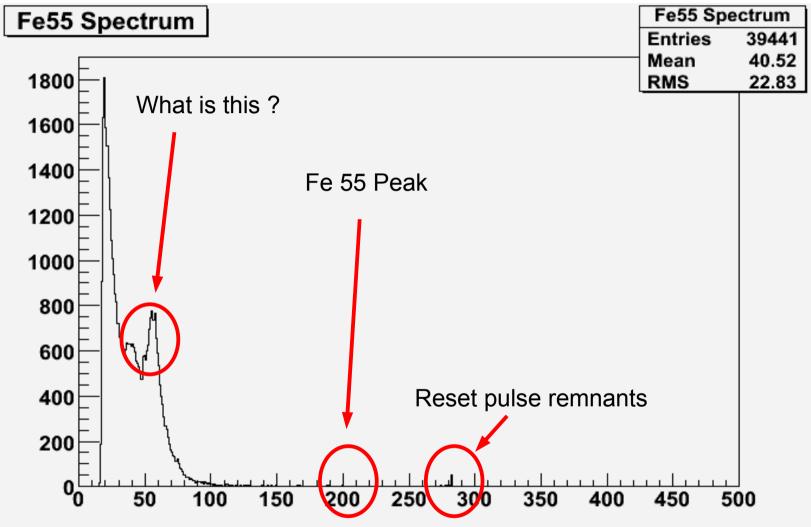


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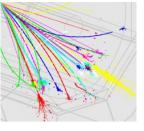
Trying to check noise



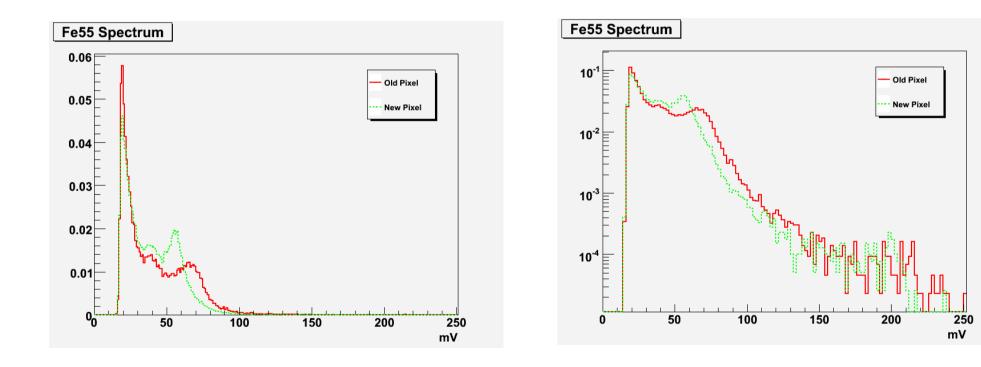
⁵⁵Fe Spectra



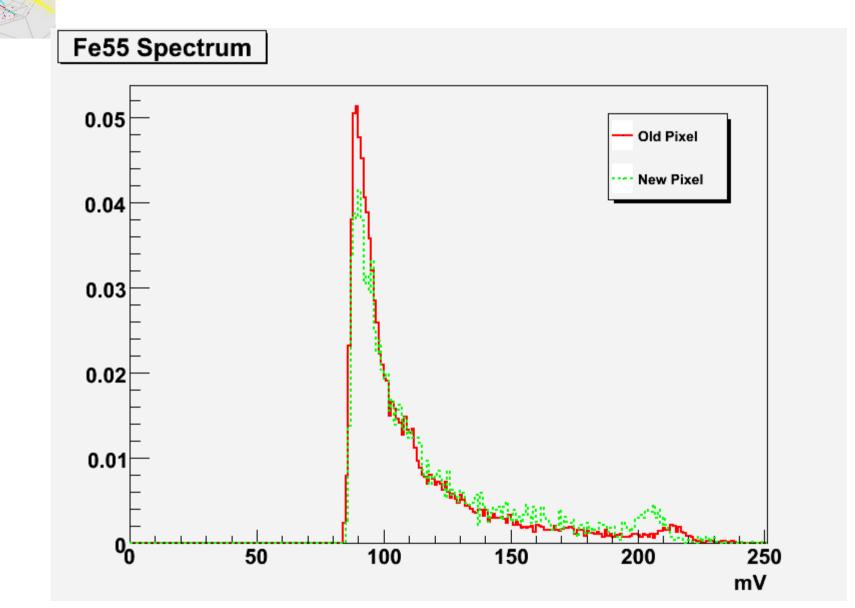
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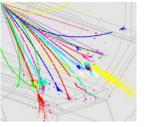
Old Pixel vs. new Pixel



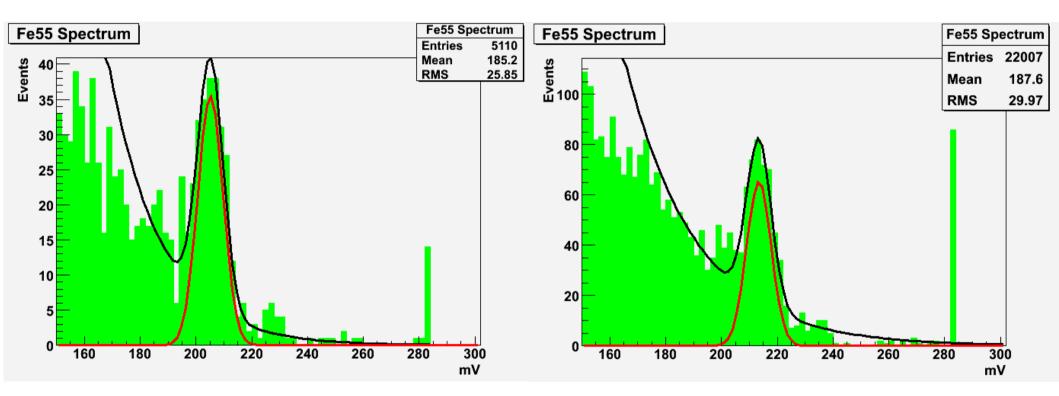
Closer look



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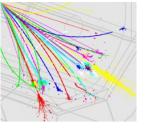
Fitting the peaks



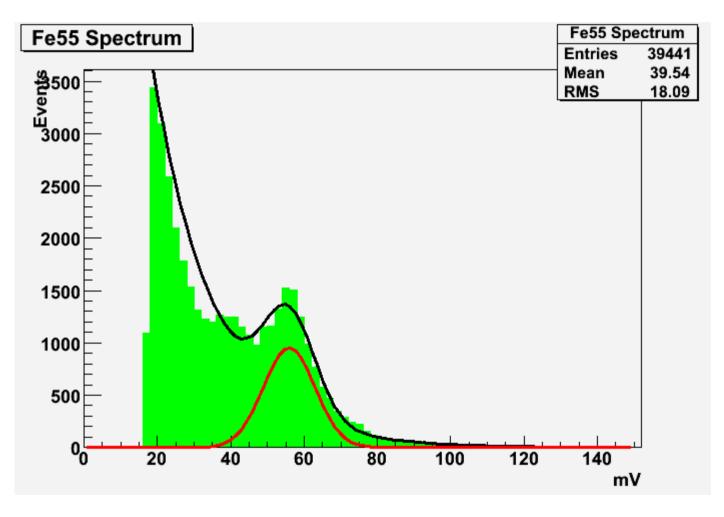
205.2 (mean) ±4.5 (width) mV New Pixel

213.5 (mean) ±4.4 (width) mV Old Pixel

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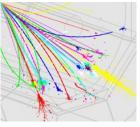


Fitting the Fake peak

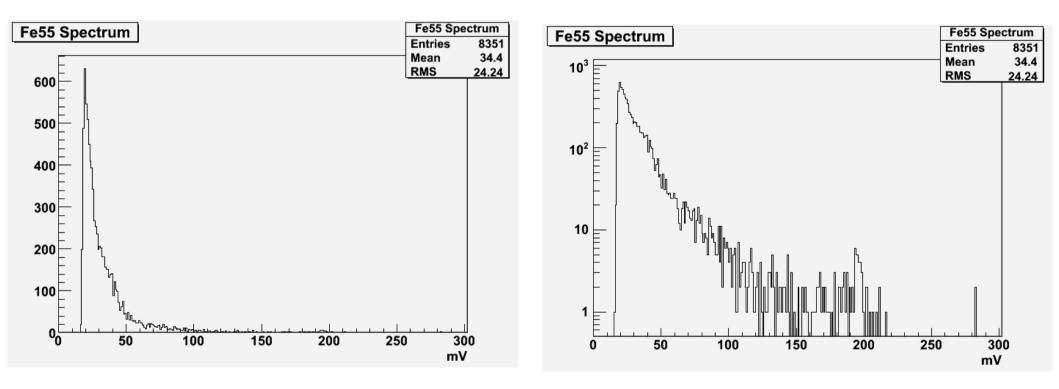


55.9 (mean) ±7.0 (width) mV New Pixel

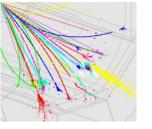




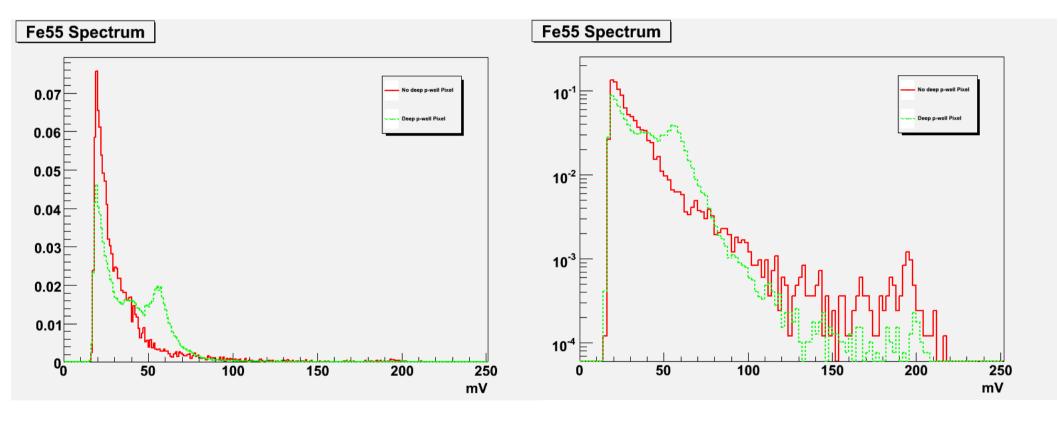
Testing with no-deep pwell

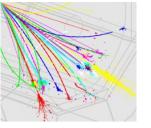




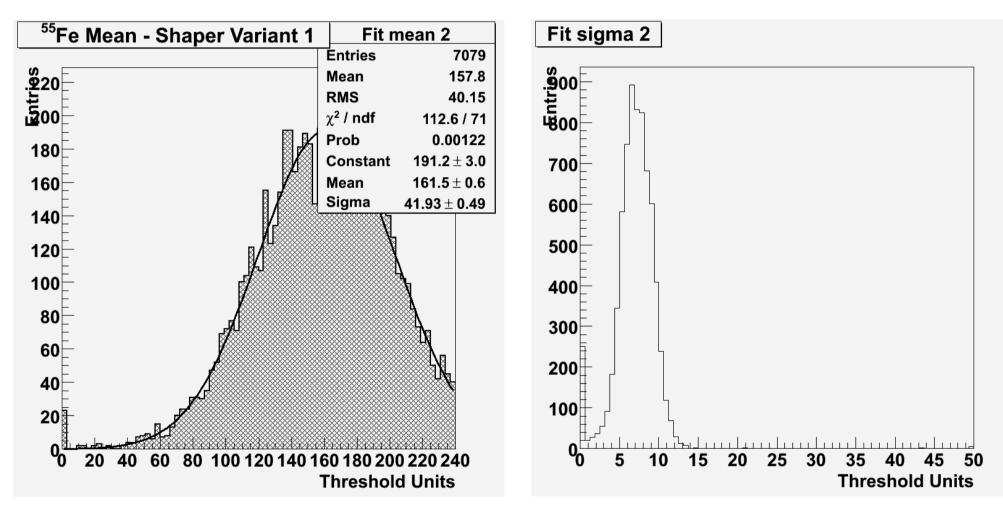


Compare the two



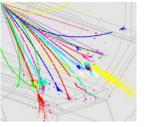


TPAC 1.0 Bulk

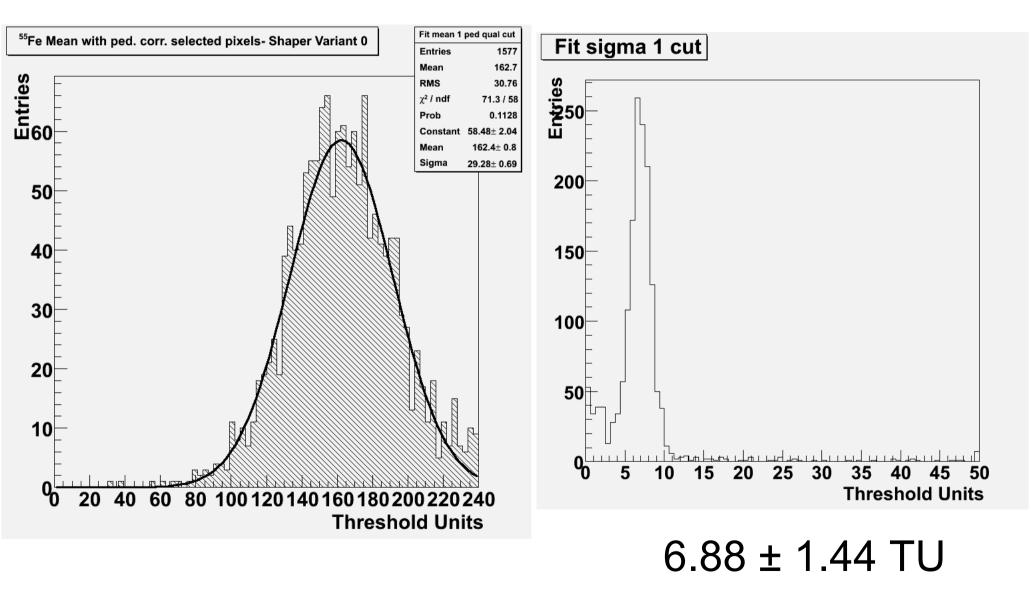


7.25 ± 1.89 TU

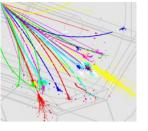




TPAC 1.1 Bulk







Notes

- The fits are less stable than for TPAC1.0, probalby needs a bit of tuning
- Can run with 168 pixels at once, much faster
- Overall results are comparable
- The big question is, what are we fitting
 - Mike and Jamie have all the numbers

