Bo Noise

Brian Rebel
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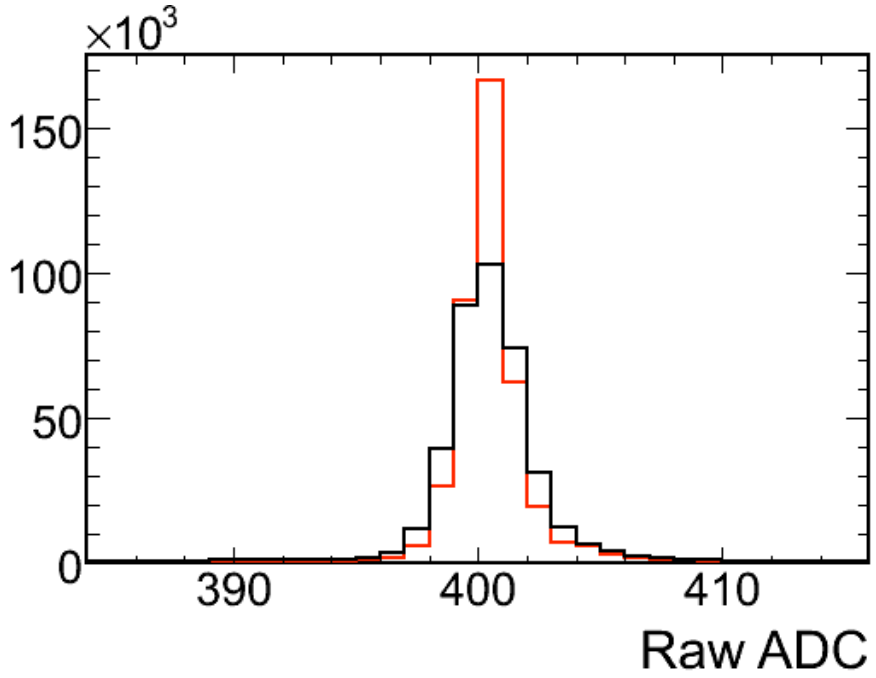
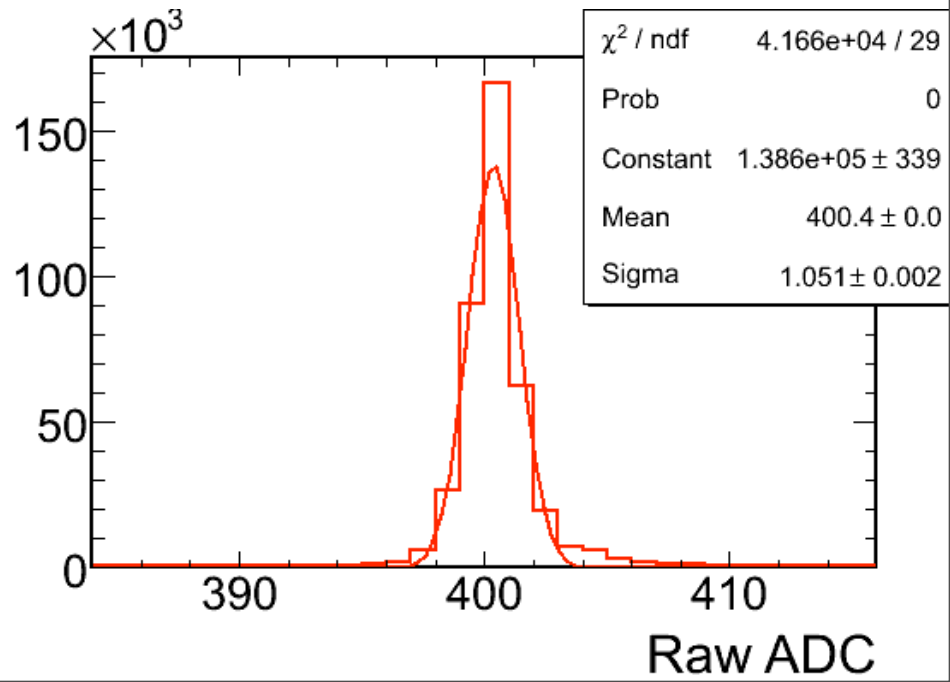
Outline

- Pedestal studies
- Looking for coherent noise

Pedestal Studies

- Used run 89 for all data shown
- First looked at distribution of raw adc values to determine pedestal on each wire
- Used all events in run for each wire
- Wires shown are from 2nd induction plane
  - Red is wire 6
  - Black is wire 22
- Fit gaussian to peak to get pedestal





Coherent Noise

- Used FFT to look for spikes in frequency spectrum of noise
- Lowest frequency is determined by size of sampling time - $1/(2\Delta)$ = 2.5 kHz for 198 ns sampling time
- Modulus of FFT values shown, summed over all events
- Wires shown are from 2nd induction plane
  - Red is wire 6
  - Black is wire 22
- Large spike at 0, smaller blip at 298 kHz, some at very high frequencies