Integrate asymmetries over tof bins 3-46, make one entry per wire per pulse (both run types, even and odd asymmetries).

Large asymmetries seen for pulse<25



ASYMIVS, PULSE

## Fairly uniform behavior seen for pulse>25



ASYMIVS, PULSE

Vs. pulse looks uniform, but not in fact Gaussian. Due to different asymmetry widths per wire?



Yep

Integrate asymmetries over tof bins 3-46, make one entry per wire per pulse (both run types, even and odd asymmetries).

Cut on 25<pulse<598

Histogram for each wire.

Measure RMS (black) and sigma (from fit, red).





## Asymmetry distribution for wire 39 (highest chisq/dof)



## Run set asymmetry difference for even/odd sums (A - B) / 2 for odd sums (A – B) / 2 for even sums



Differences present (same as previous plot); nearly the same for the two different sums.













## Comments

- There are clearly drifts that cause differences between even and odd sums, especially when close to dropped pulse.
  - Seems hard to get cancellations perfect; should probably eliminate at least the first 25 pulses.
    - Probably want to analyze asymmetries for different cut values.
  - Seems like we should get the asymmetry for each pulse sequence from average of even + odd sums.