## Kabir/Crawford Data Summary File

- Provides yield vs. t-t<sub>drop</sub> for each wire.
- Separate accounting for dropped pulses w/ RFSF on and RFSF off.
- No irregular dropped pulses.
- 5% of U/D data; no irregular dropped pulses

## Definitions

Average yield vs. time after a dropped pulse for each wire:

$$Y_{\text{wire, tof}} = \sum_{\text{spin}} Y_{\text{spin, pulse, wire, tof}}$$

Expected average yield vs. time after start of a pulse for each wire:

$$\langle Y_{\text{wire, tof}} \rangle = \frac{1}{100} \sum_{\text{spin, pulse}=499-598} Y_{\text{spin, pulse, wire, tof}}$$

Fractional yield difference vs. time after a dropped pulse for each wire:

$$\langle \delta Y_{\text{wire, tof}} \rangle = \frac{\left(Y_{\text{wire, tof}} - \langle Y_{\text{wire, tof}} \rangle\right)}{Y_{\text{wire, tof}}}$$

## Yield vs. Time



Yield

## Systematic Change in Yield vs. Time



Close-Up, Near Pulse 100



Close-Up, Near Pulse 200



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Close-Up, Near Pulse 300



Close-Up, Near Pulse 400





5/2/16