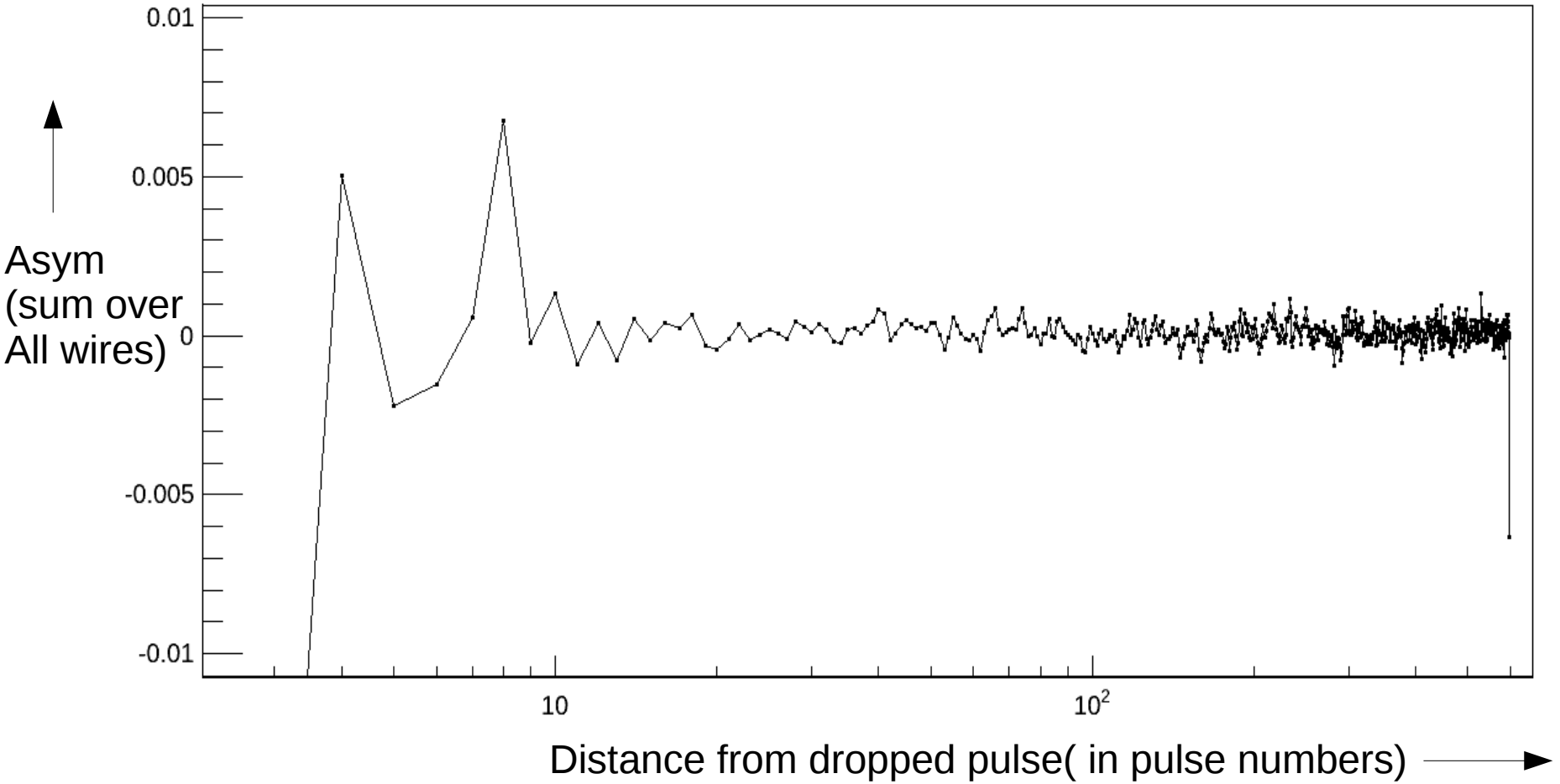
Asymmetry as a function of pulse distances from dropped pulse

For asymmetry as a function of distance from dropped pulses:

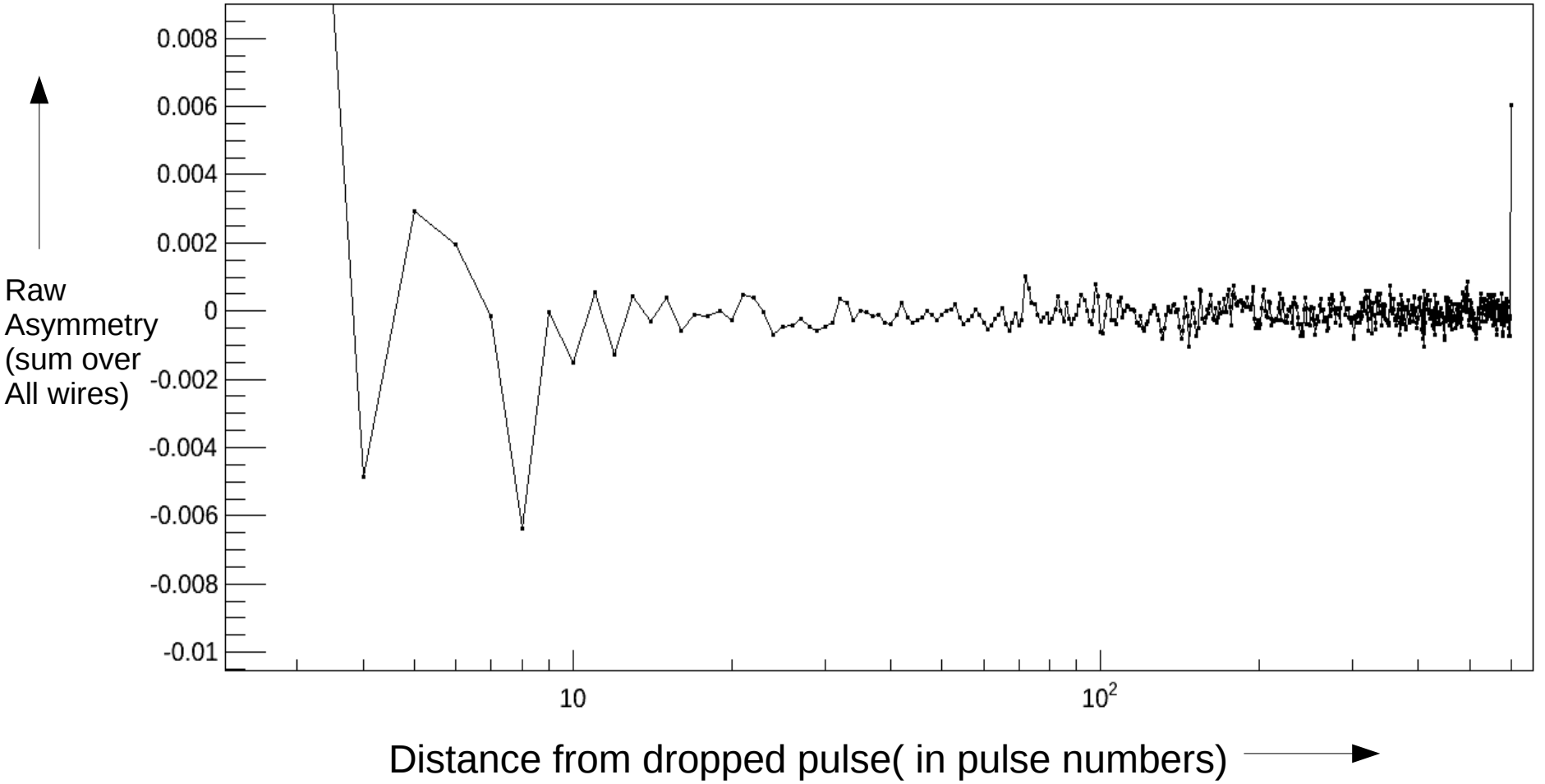
- Only runs having regular dropped pulses are considered.
- For LR runs, asymmetry summed over all wires are plotted against distances separately for up and down spin sequences for dropped pulses.
- For UD runs I add asymmetry for both spin sequences and then plot the same thing.

(Multiple version of same plot is included to show scale, details when zoomed and for comparison)

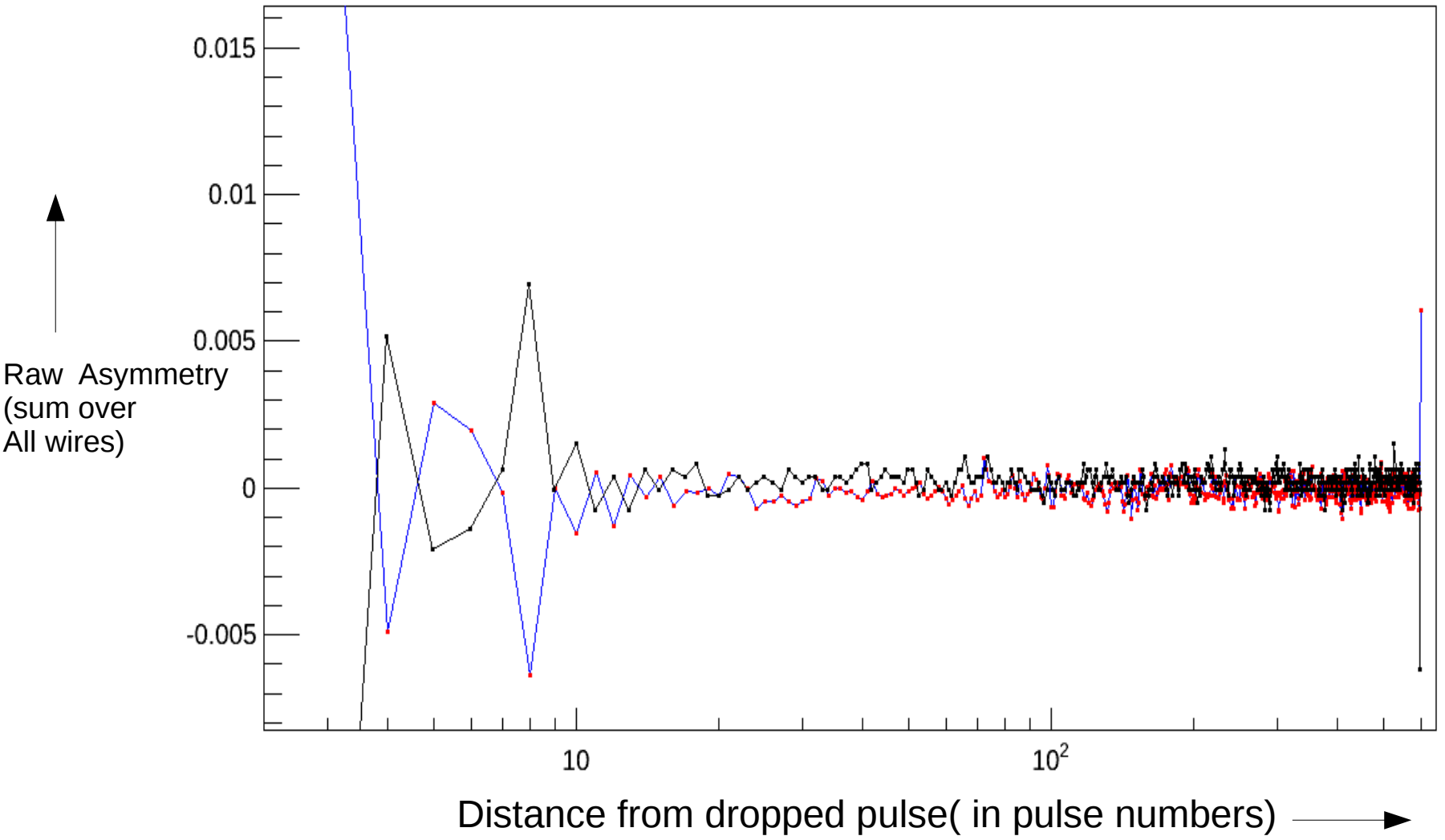
LR runs w/ dropped pulses on SF ON state (191 runs)



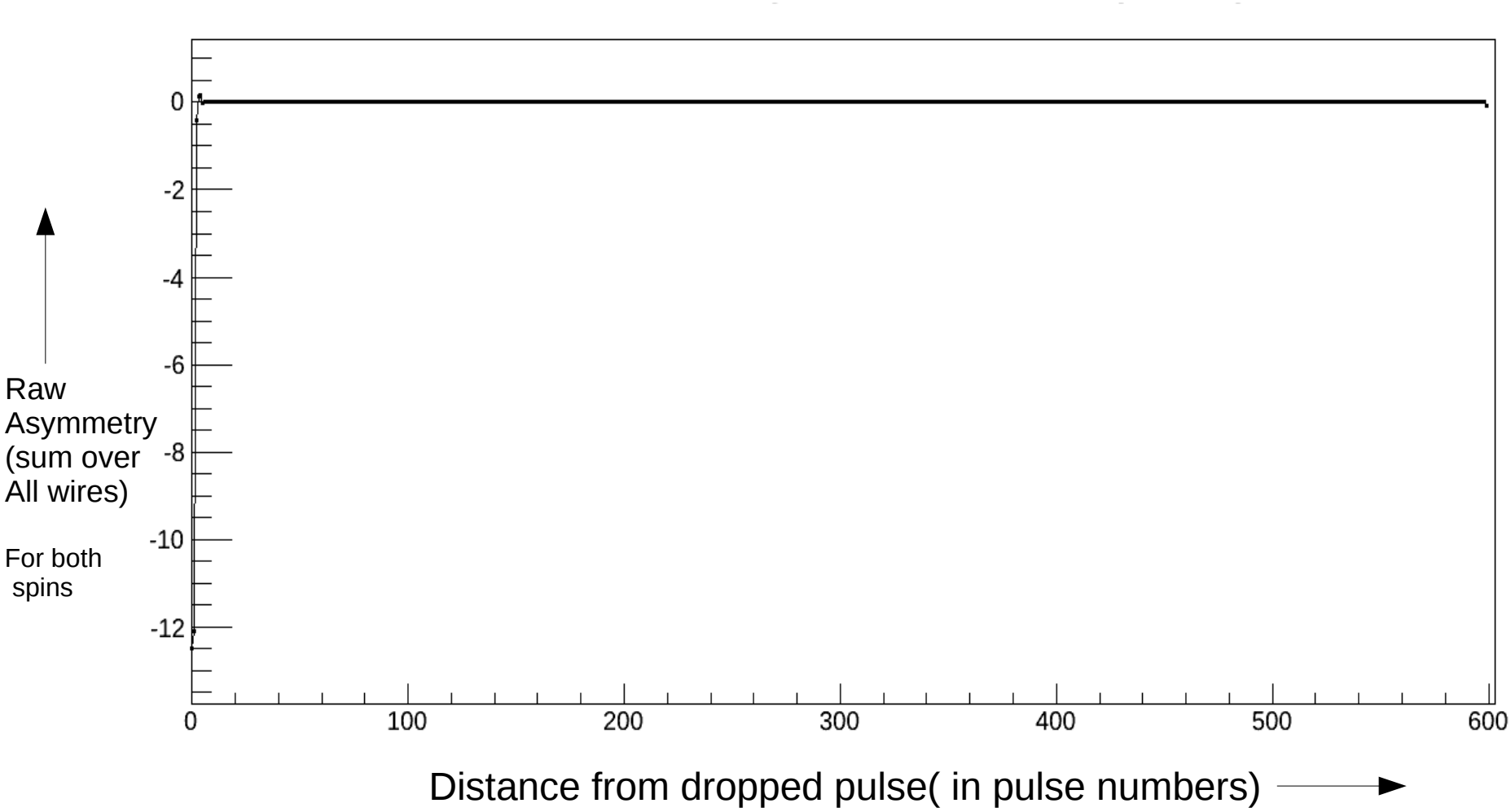
LR runs dropped pulses on SF OFF state(179 runs)



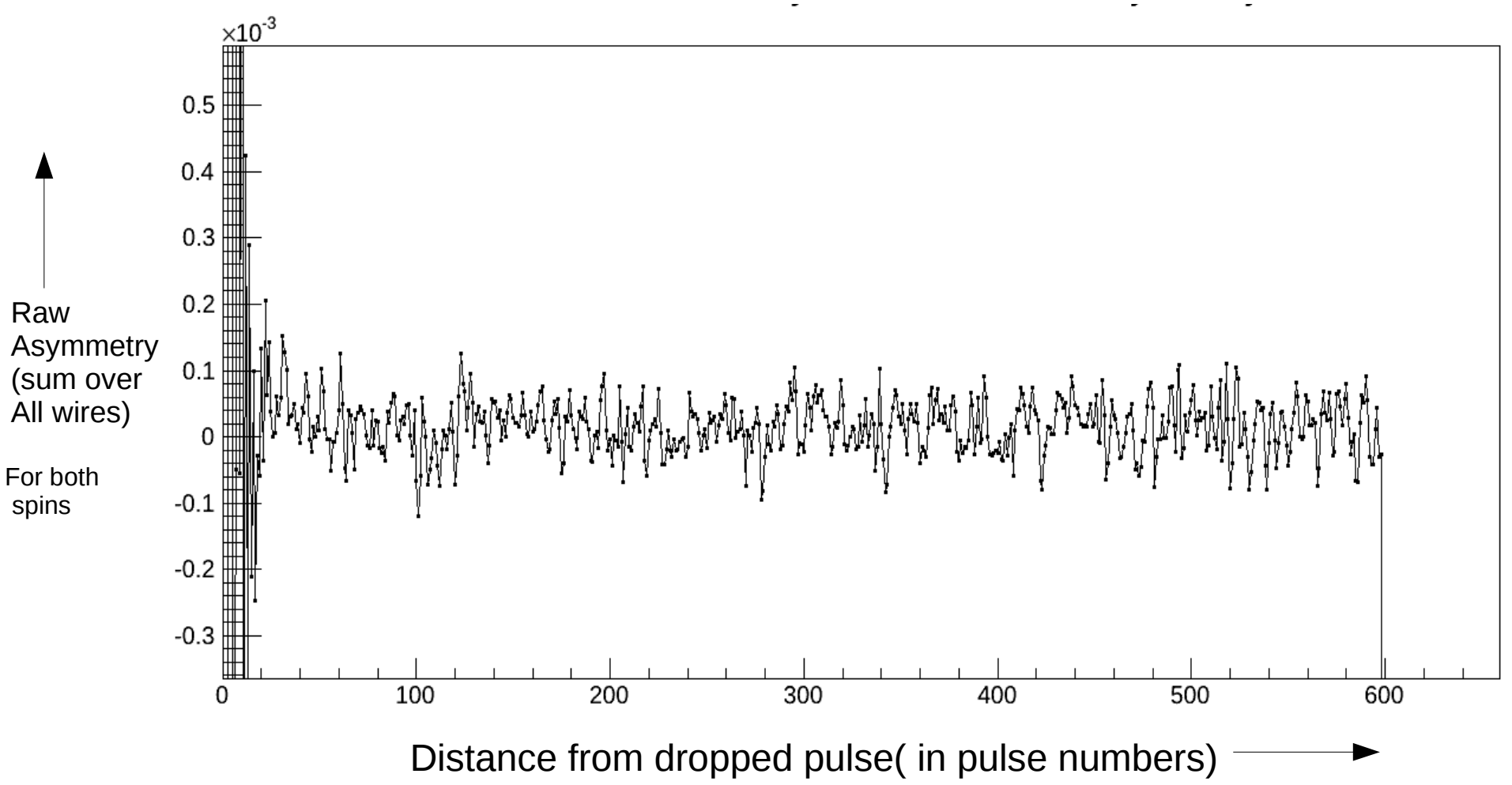
LR runs dropped pulses on SF ON vs OFF state



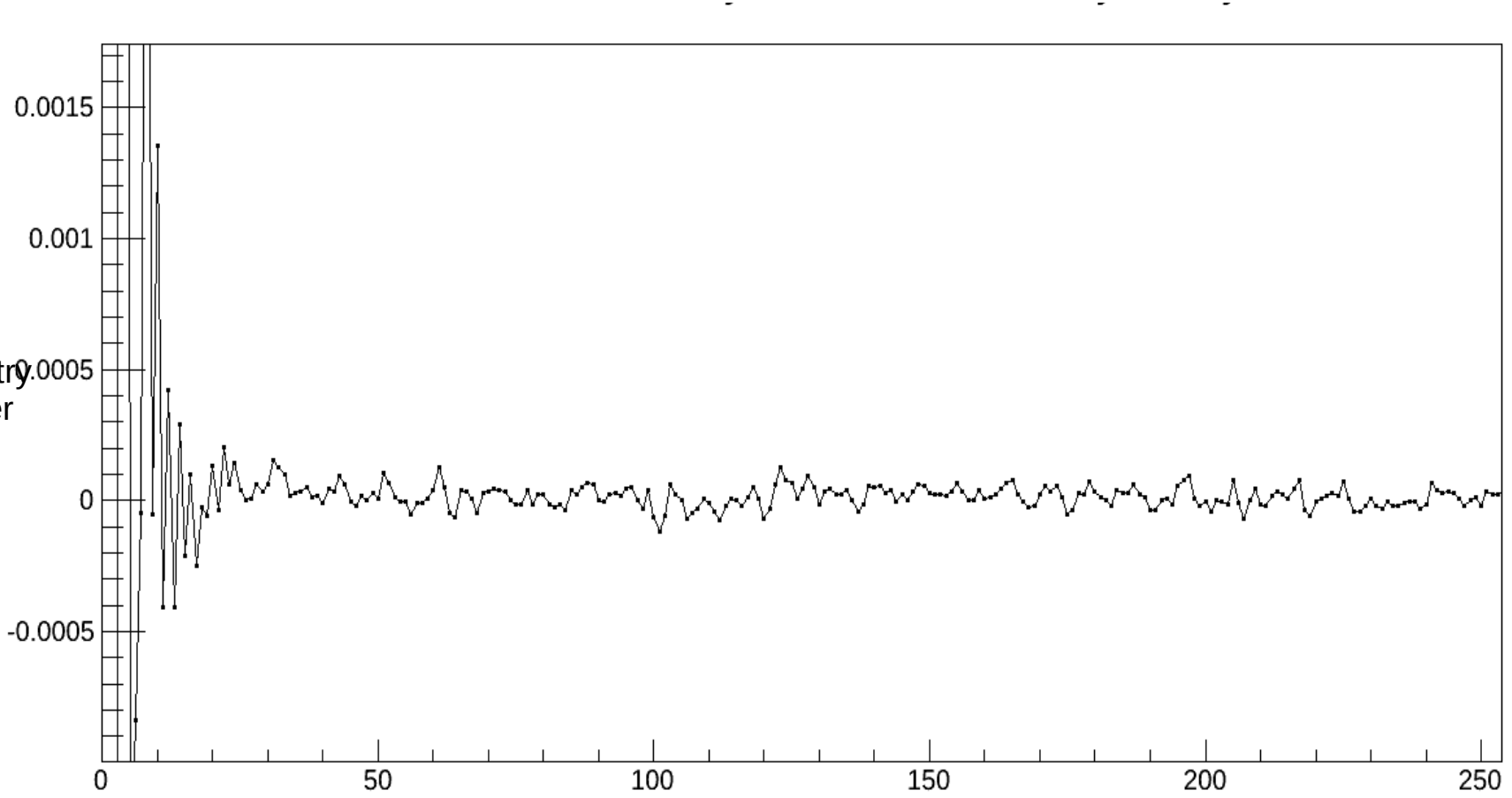
Sum of asymmetries vs distance using UD runs (7400 runs)



Sum of asymmetries vs distance using UD runs



sum of asymmetries vs distance using UD runs(first 250 pulses)

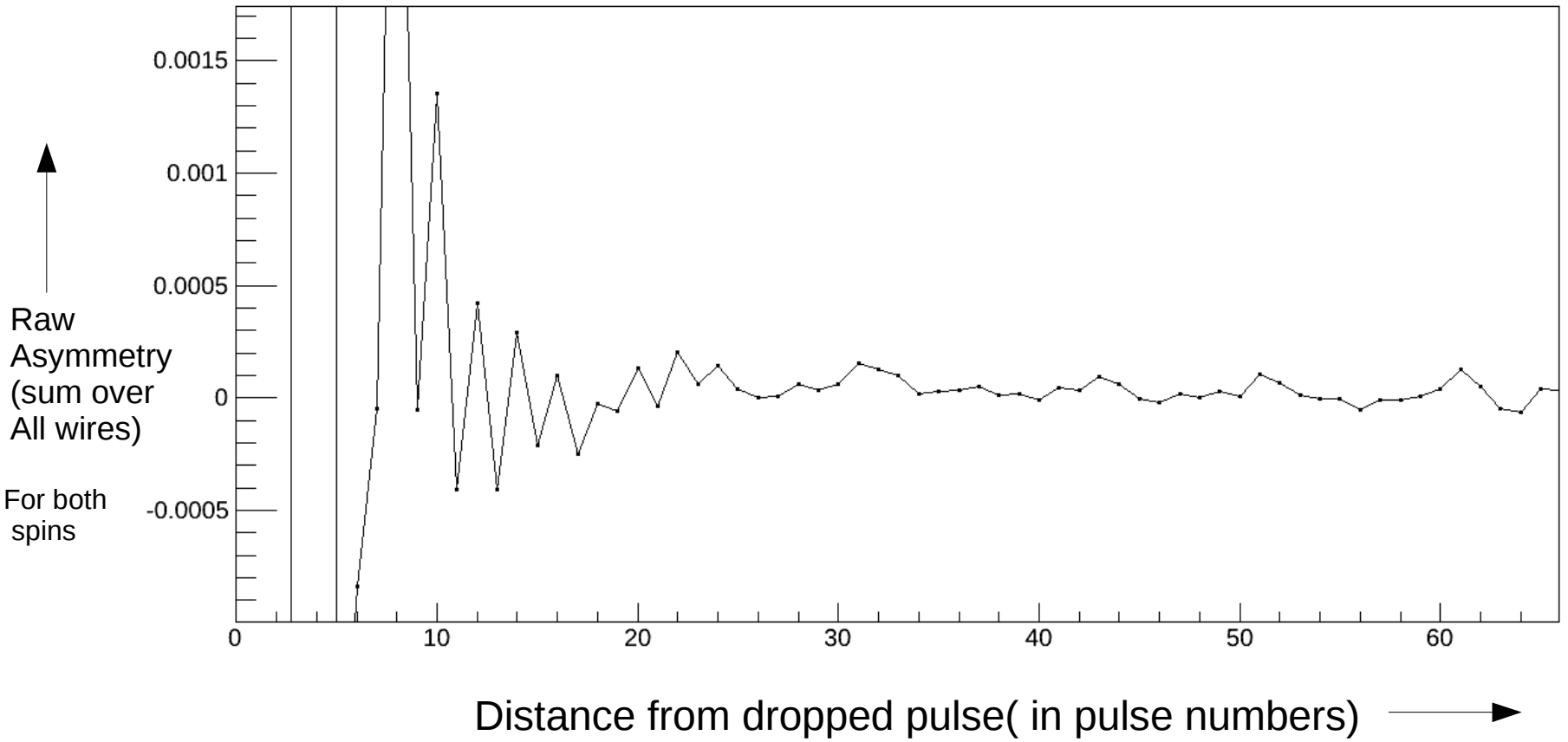


Raw Asymmetry (sum over All wires)

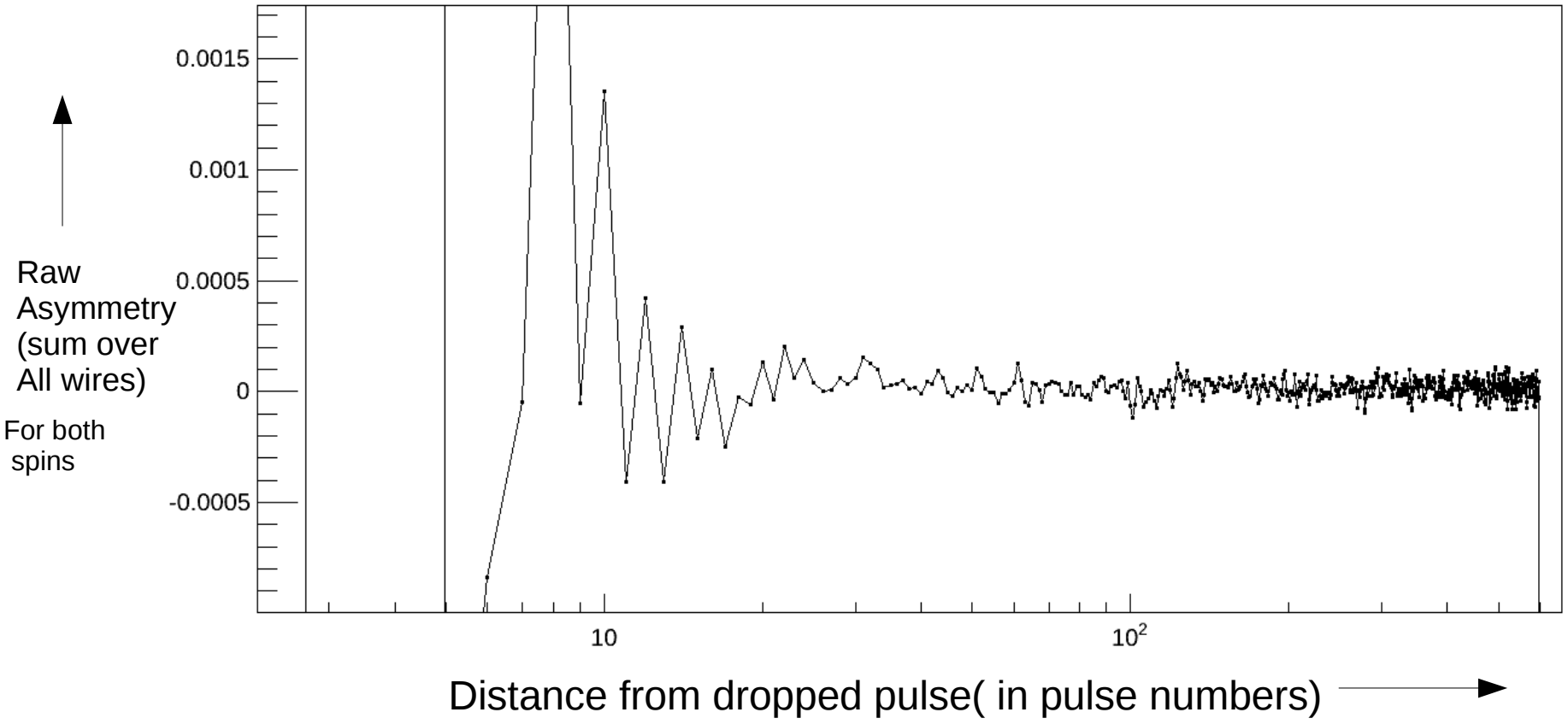
For both spins

Distance from dropped pulse(in pulse numbers) ⟶

sum of asymmetries vs distance using UD runs

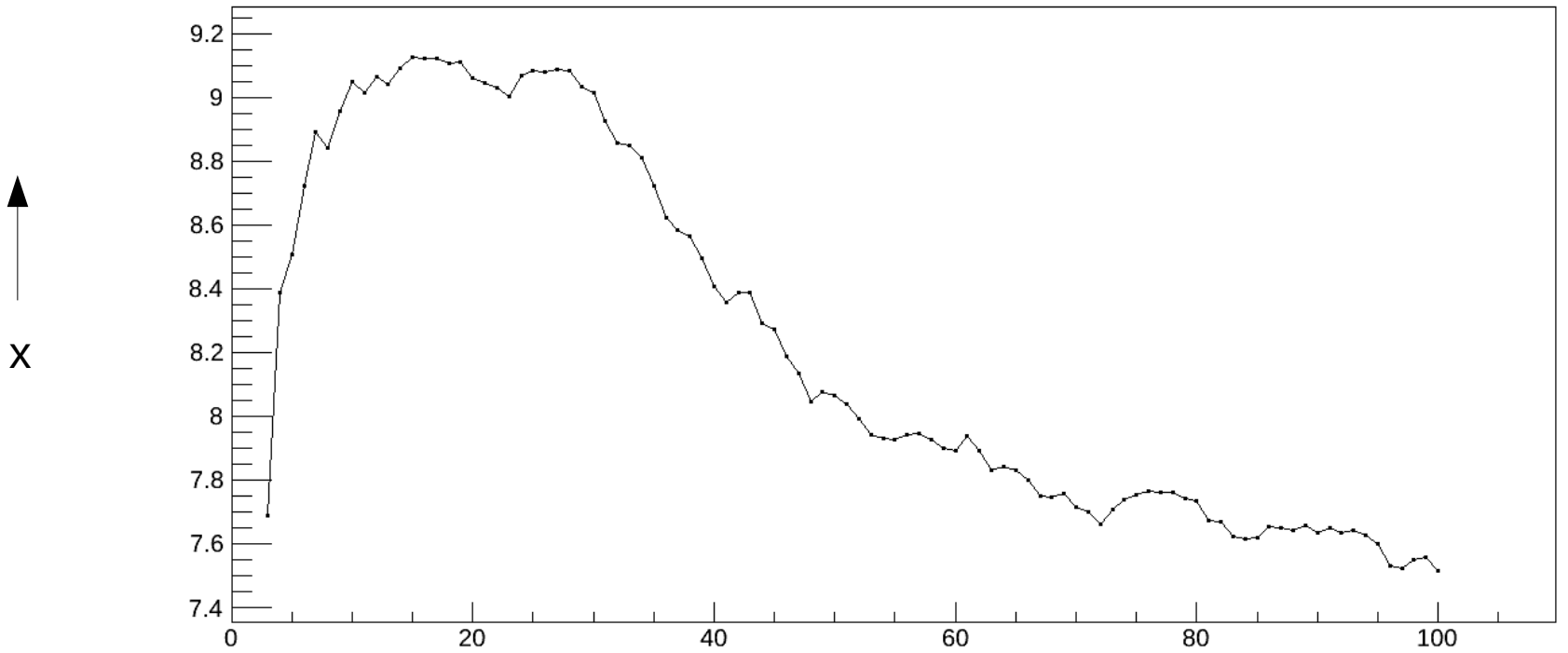


sum of asym vs distance using UD runs



Asym as a function of cut

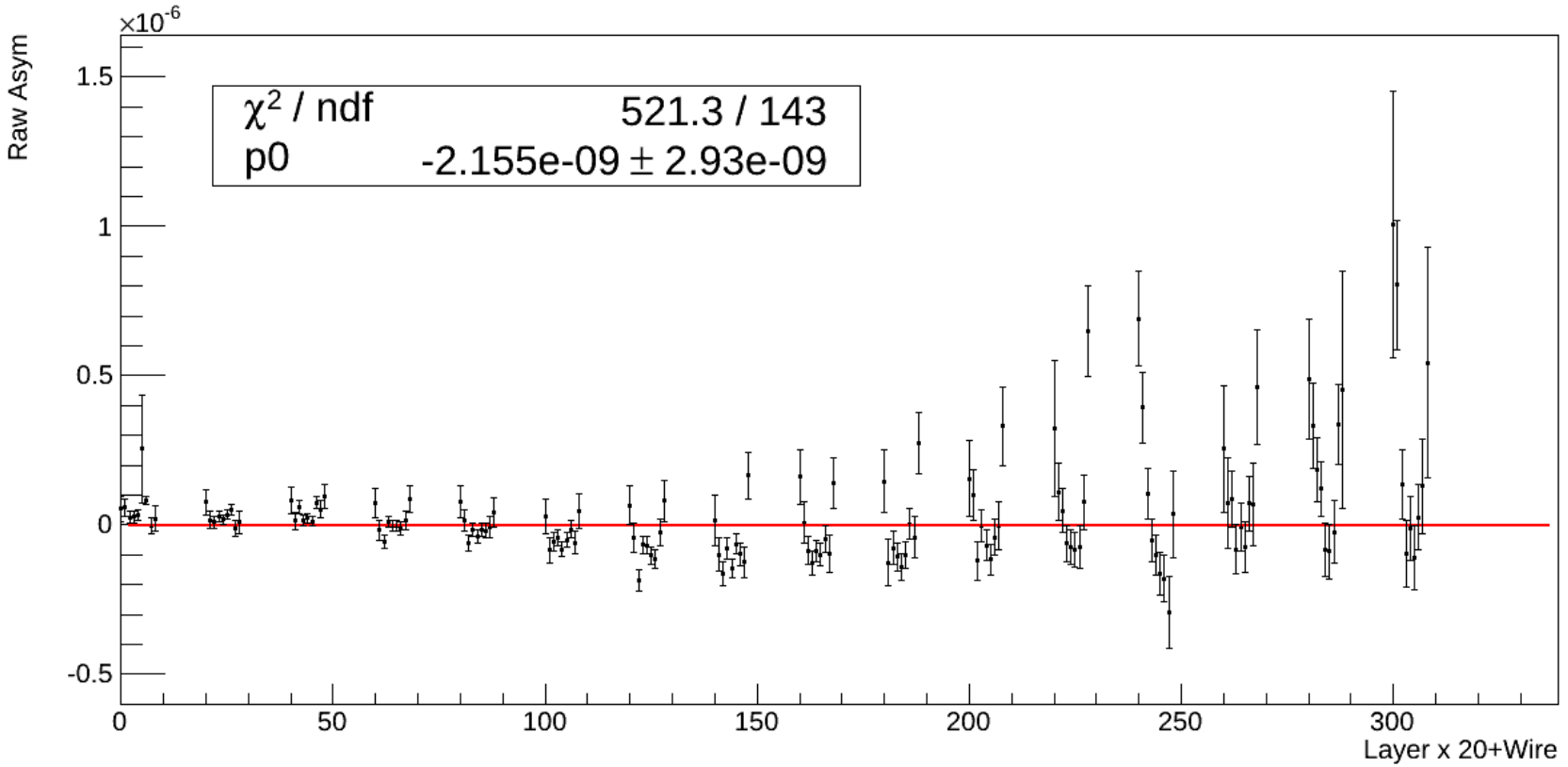
$$x = \frac{1}{144} \sum_{n=1}^{144} \frac{(A_{up} - A_{down})^2}{\delta A_{up}^2 + \delta A_{down}^2}$$



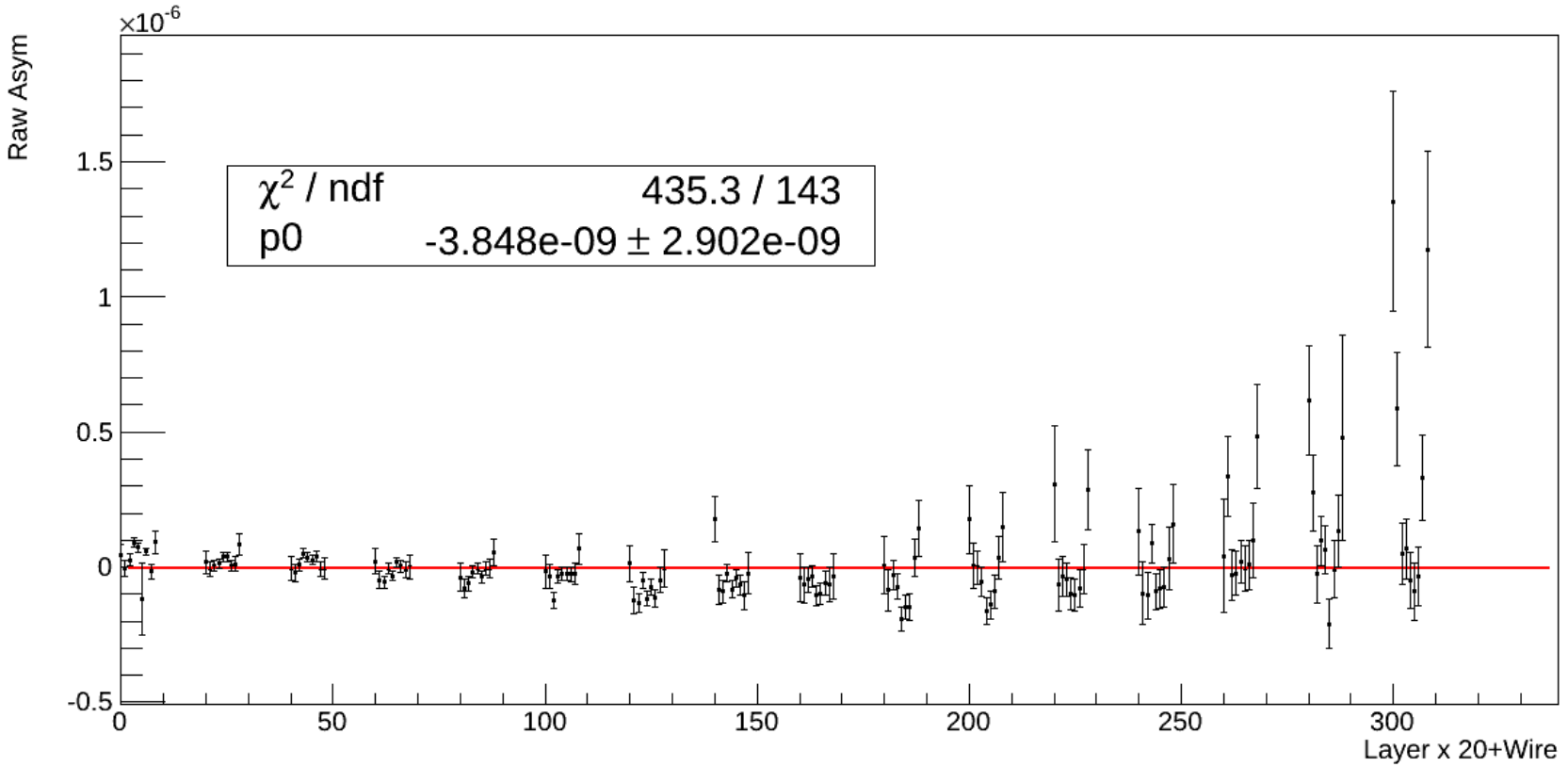
x

Imposed post dropped pulse cut (number of pulses) inclusive one before →

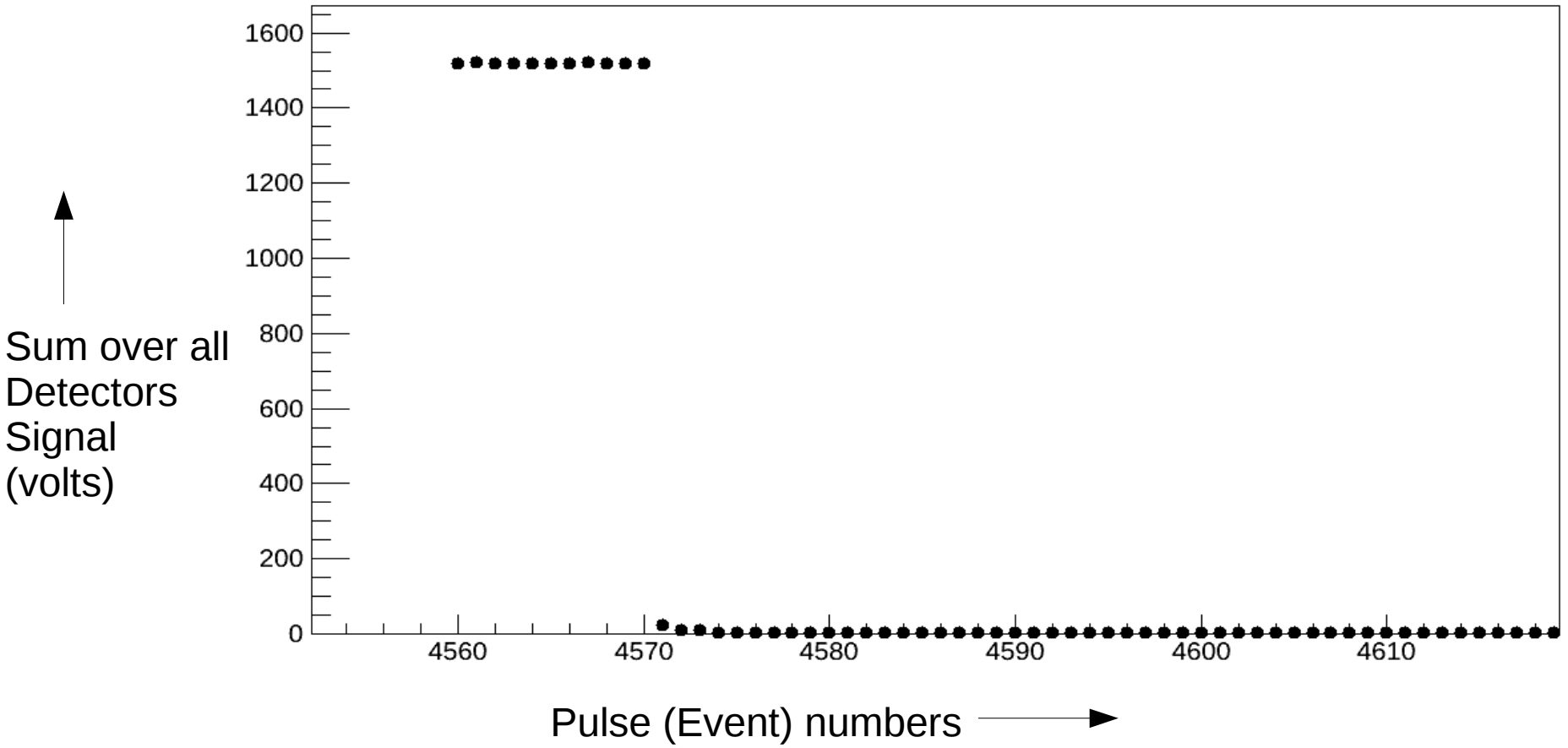
UD Asymmetry using two different data set : set 1



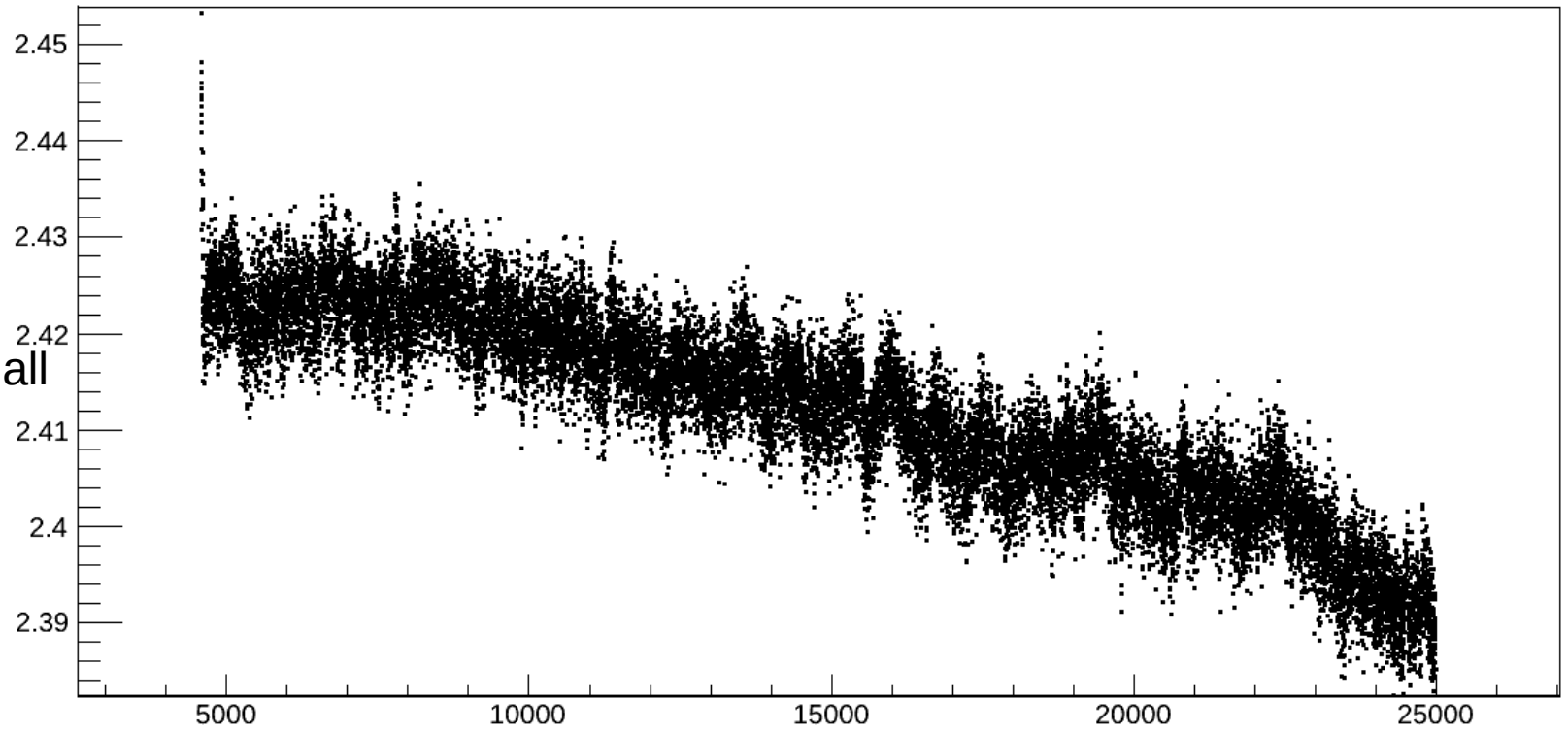
UD Asymmetry using two different data set : set 2



Decay Analysis



Decay Analysis



Sum over all Detectors Signal (volts)

Pulse (Event) numbers

Decay Analysis