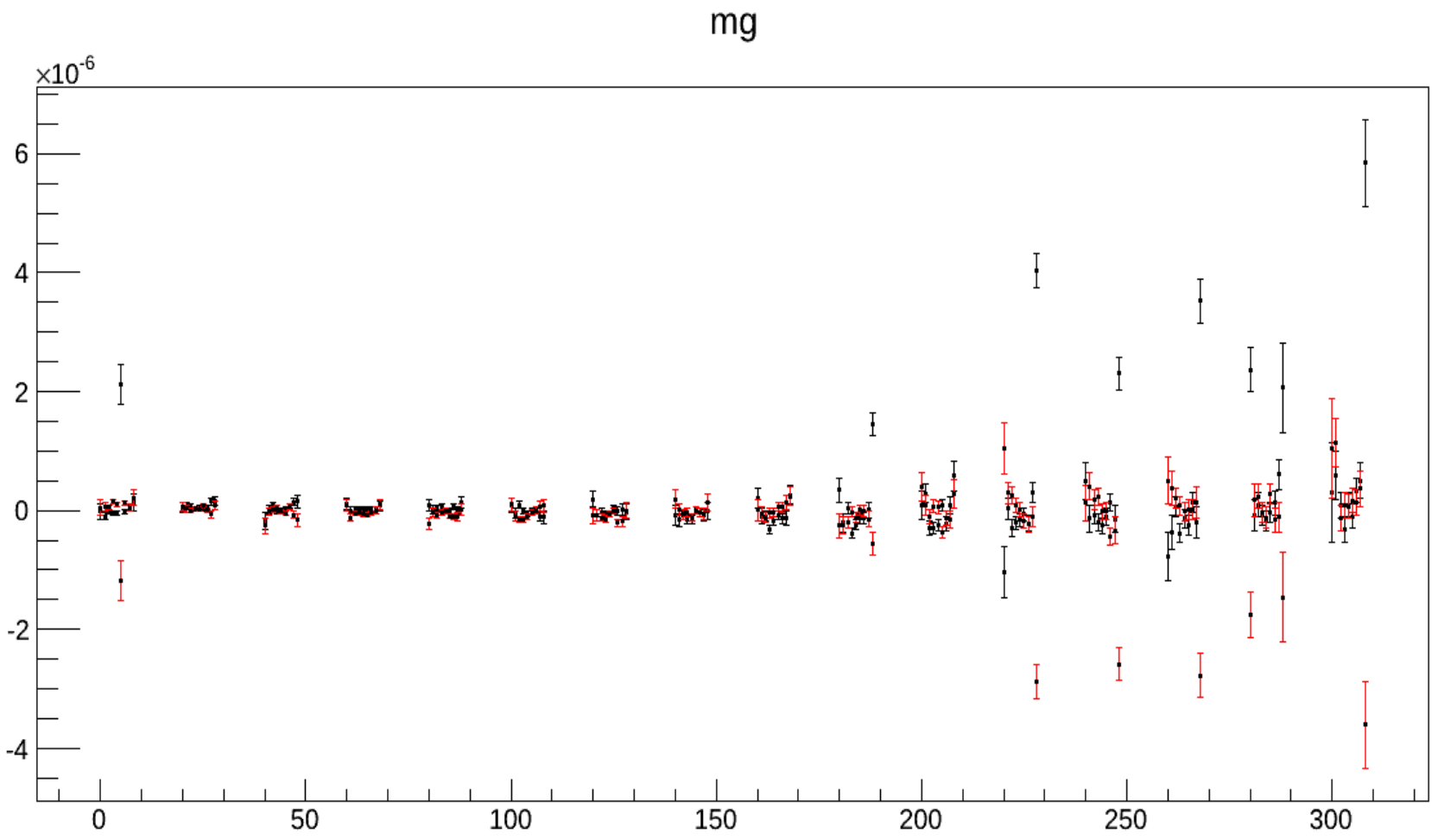
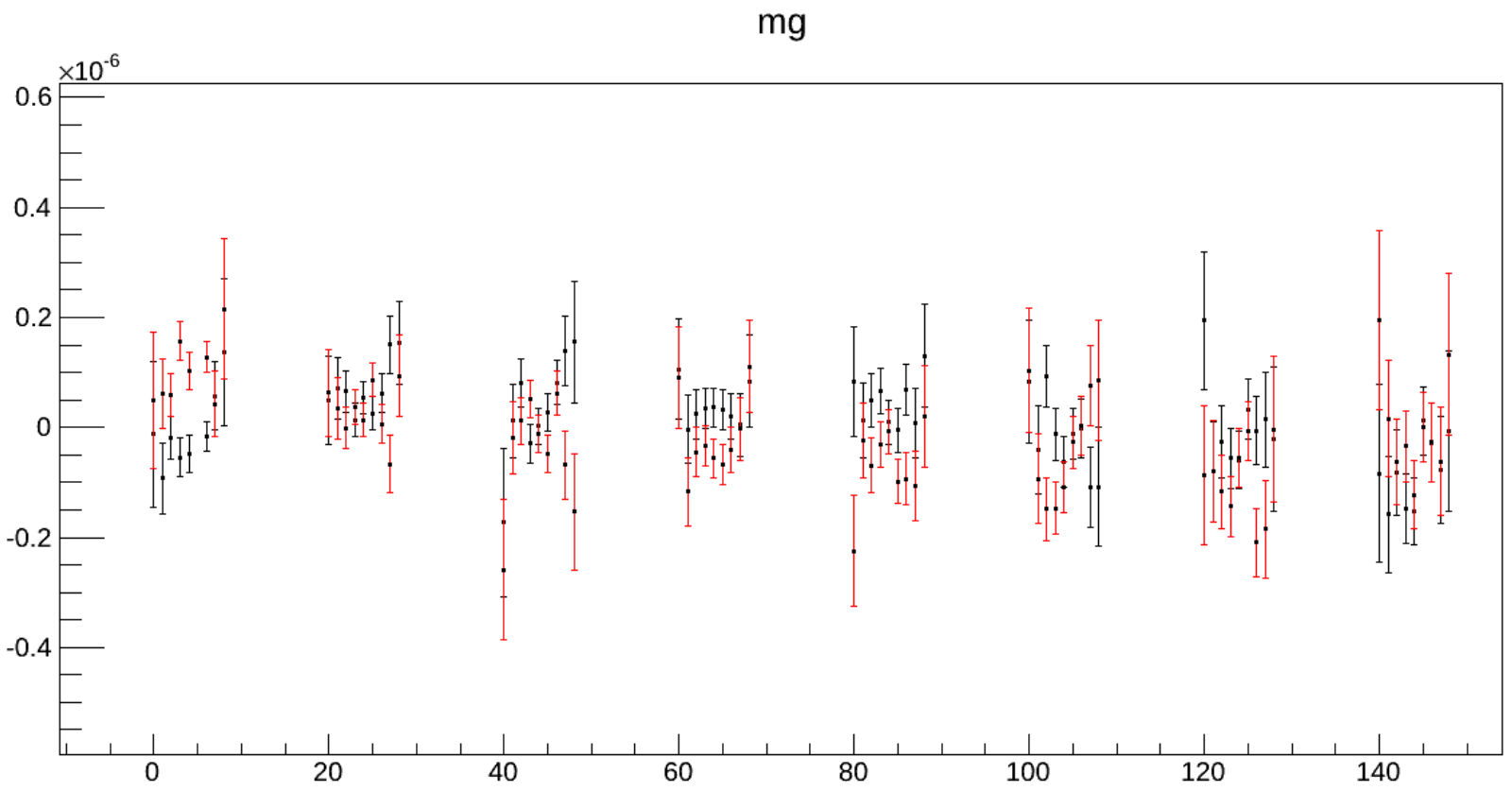
False asymmetry from wrap around neutrons

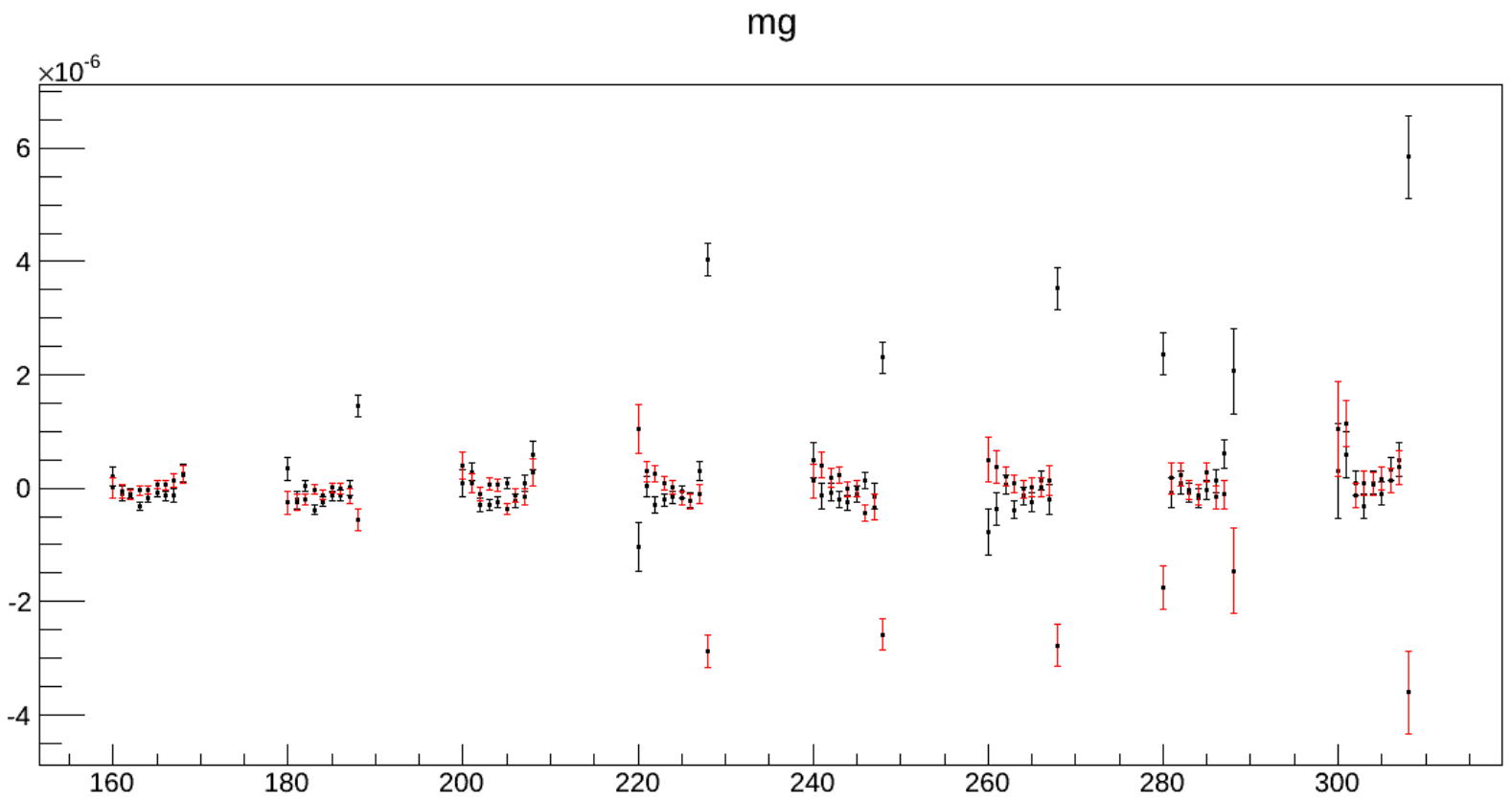
UD raw asymmetry : SF On vs Off on dropped pulses



UD raw asymmetry : SF On vs Off on dropped pulses (Front Layers)



UD raw asymmetry : SF On vs Off on dropped pulses(Back Layers)

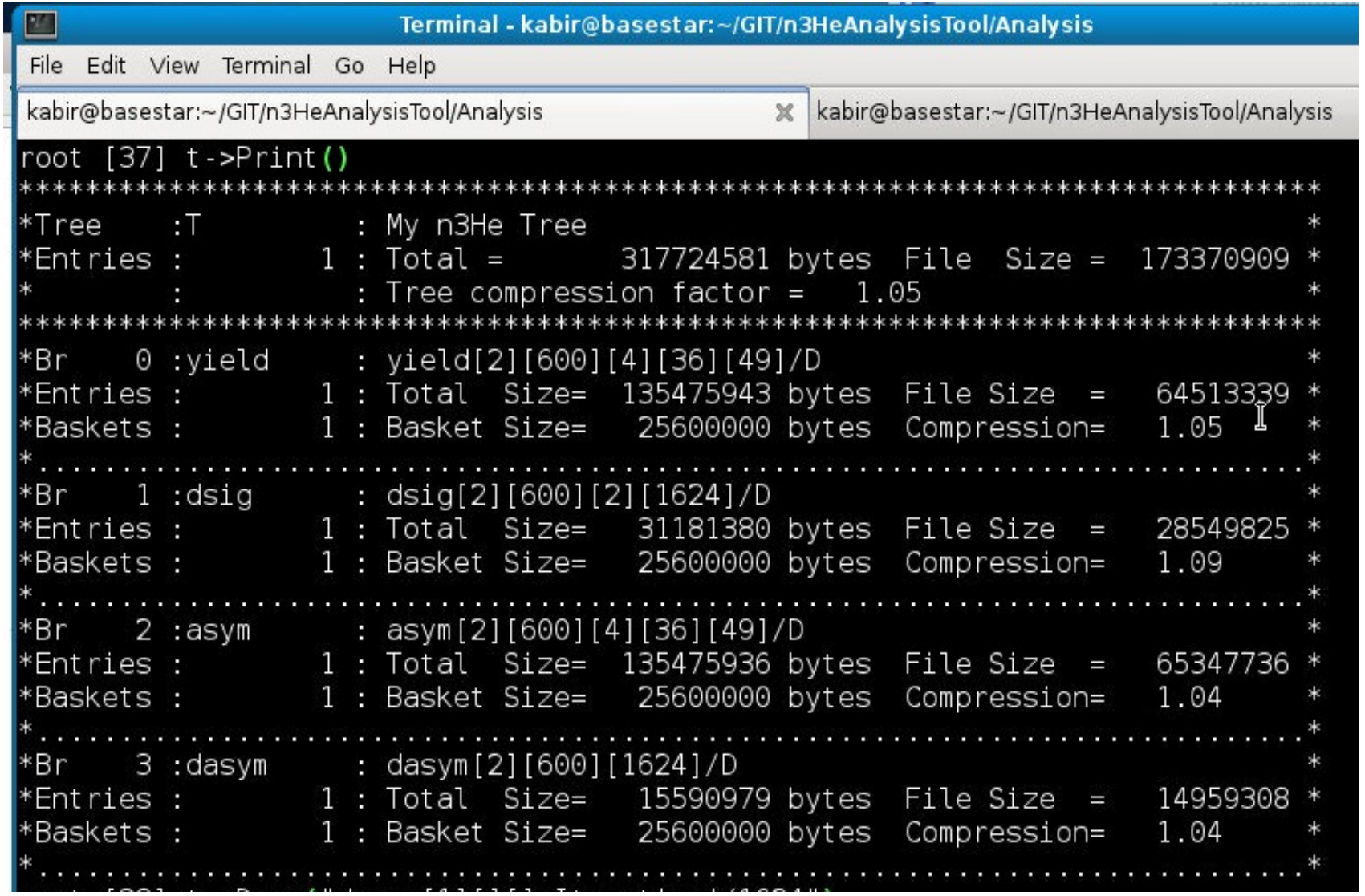


Amplifying the signals and asymmetry for better insight

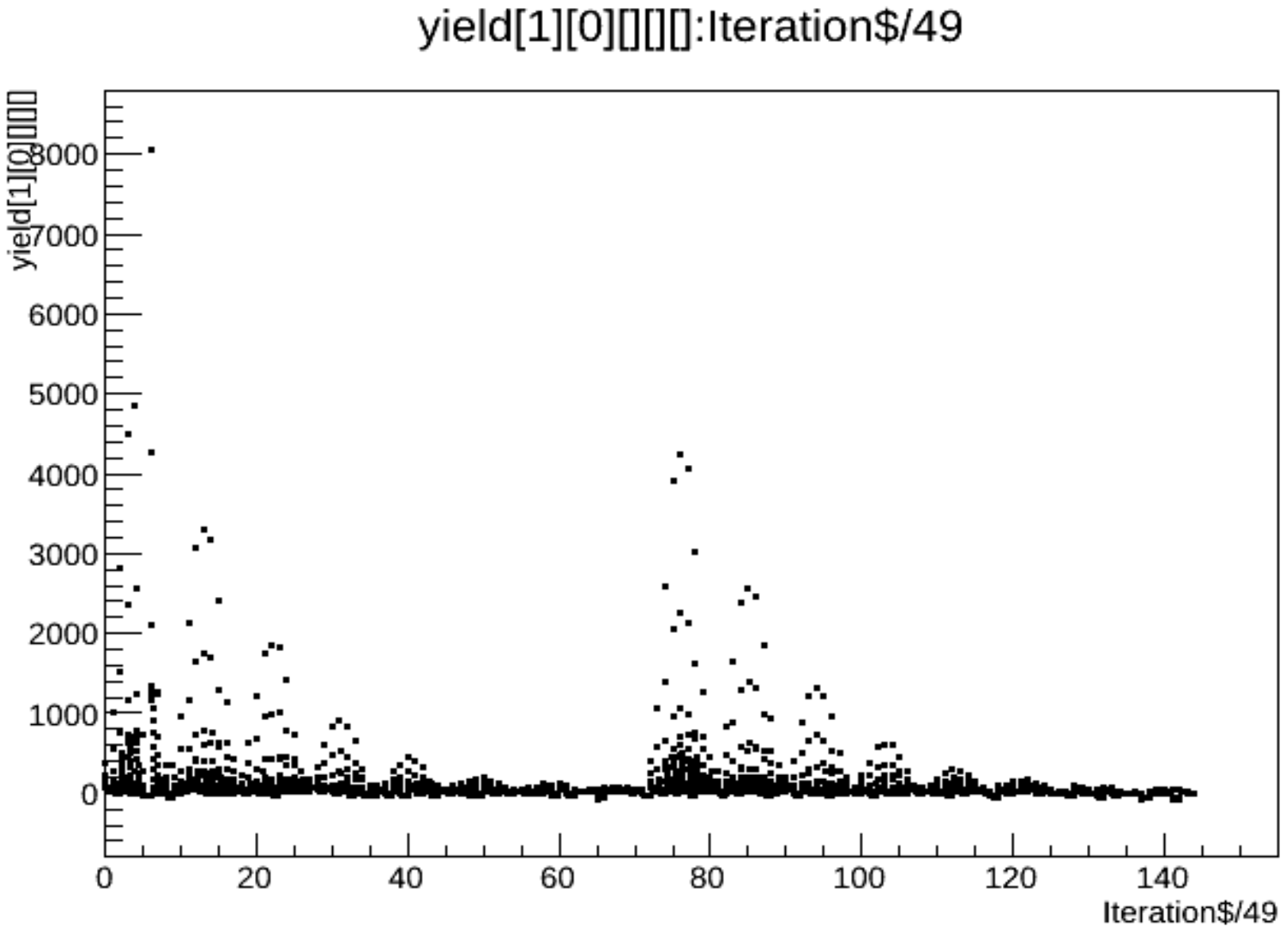
To get better insight of wrap around we amplify everything as follows:

- Divide the entire data set in 600 pulse sequences.
- There will be only one dropped pulse in the sequence which is at the beginning of each sequence.
- Integrate over same time bins of all pulses for each 600 sequence over the entire data set.
- Do it separately for SF off and on state for dropped pulses.

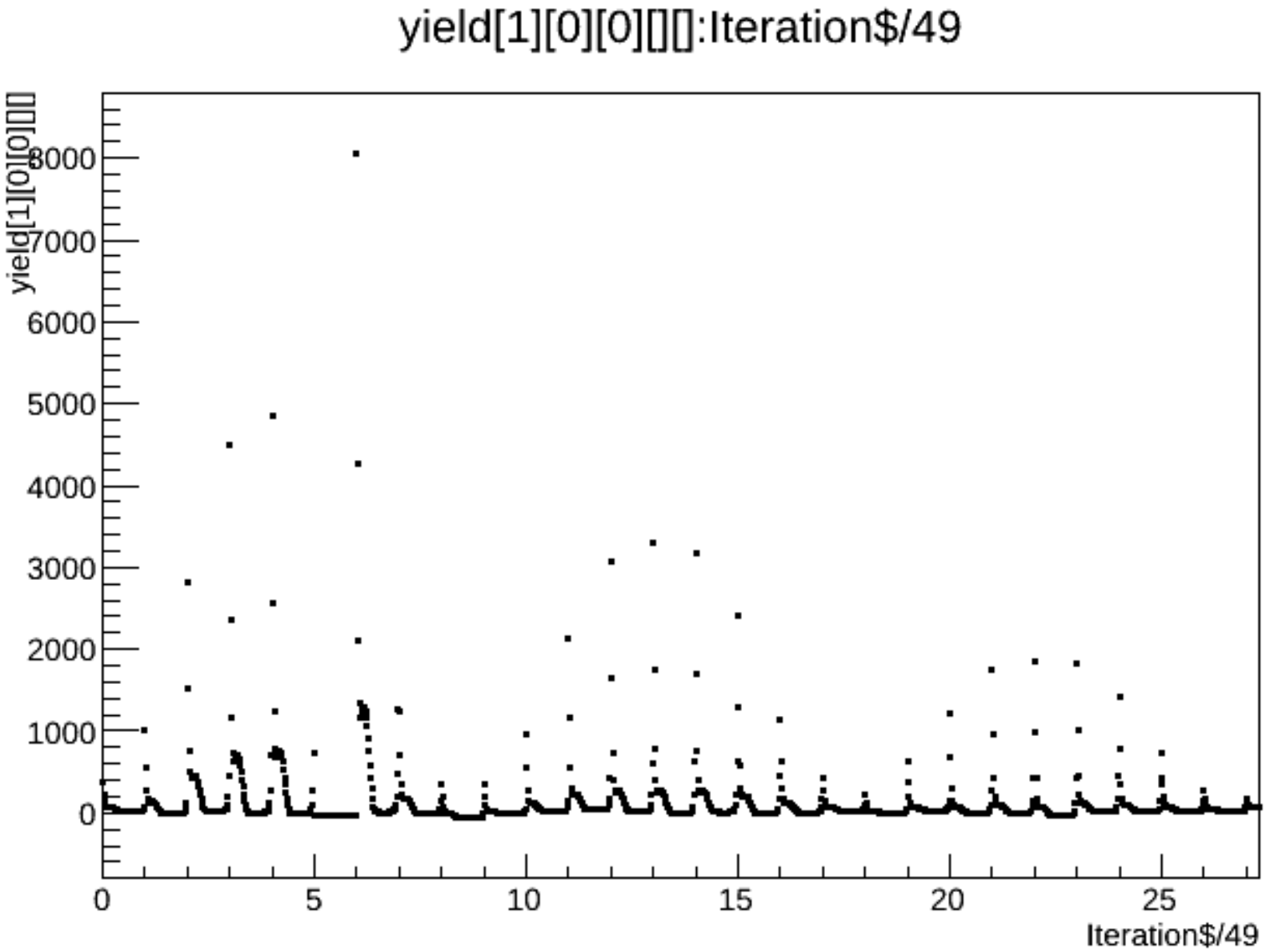
The amplified data structure



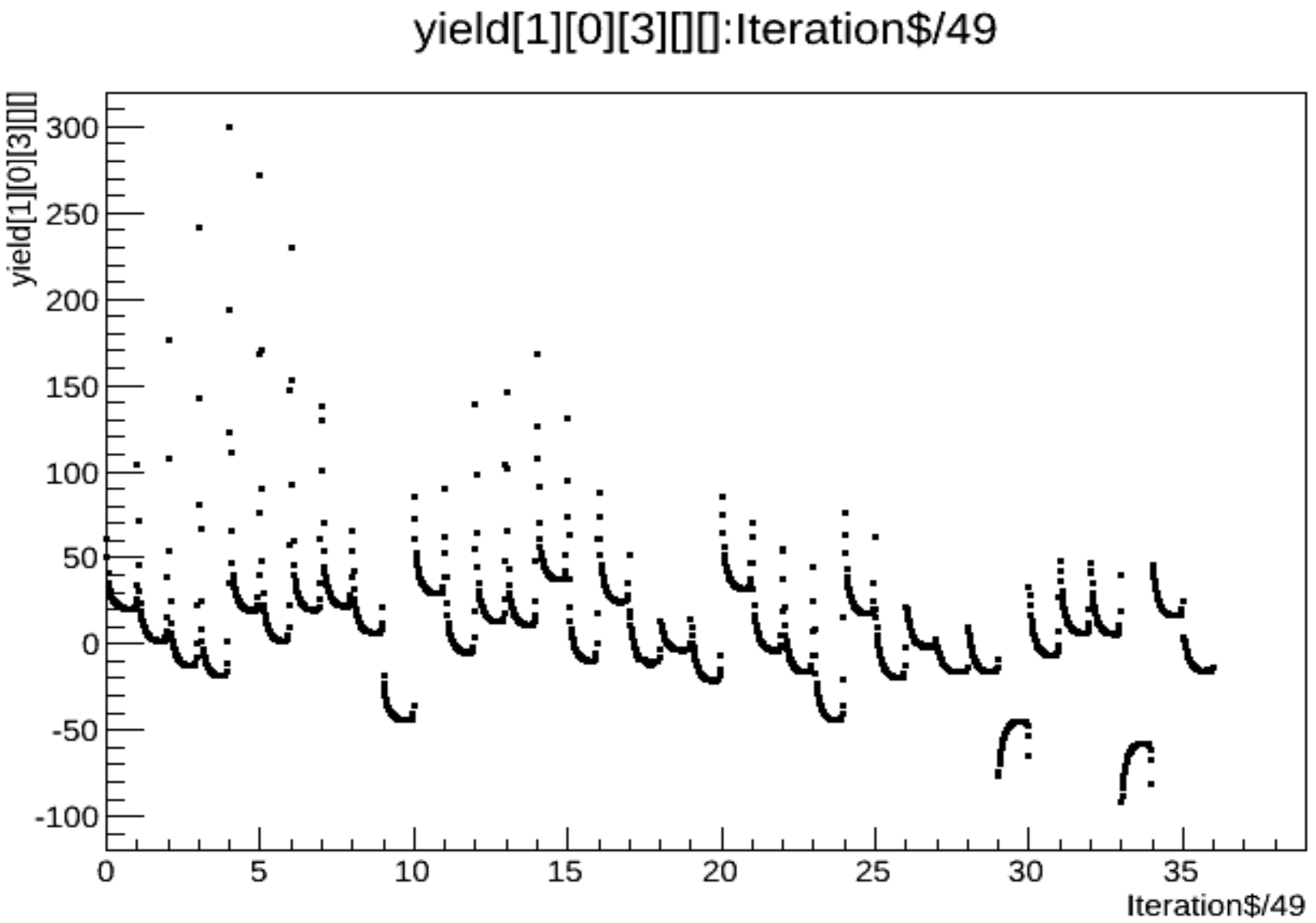
Yield for Dropped Pulses



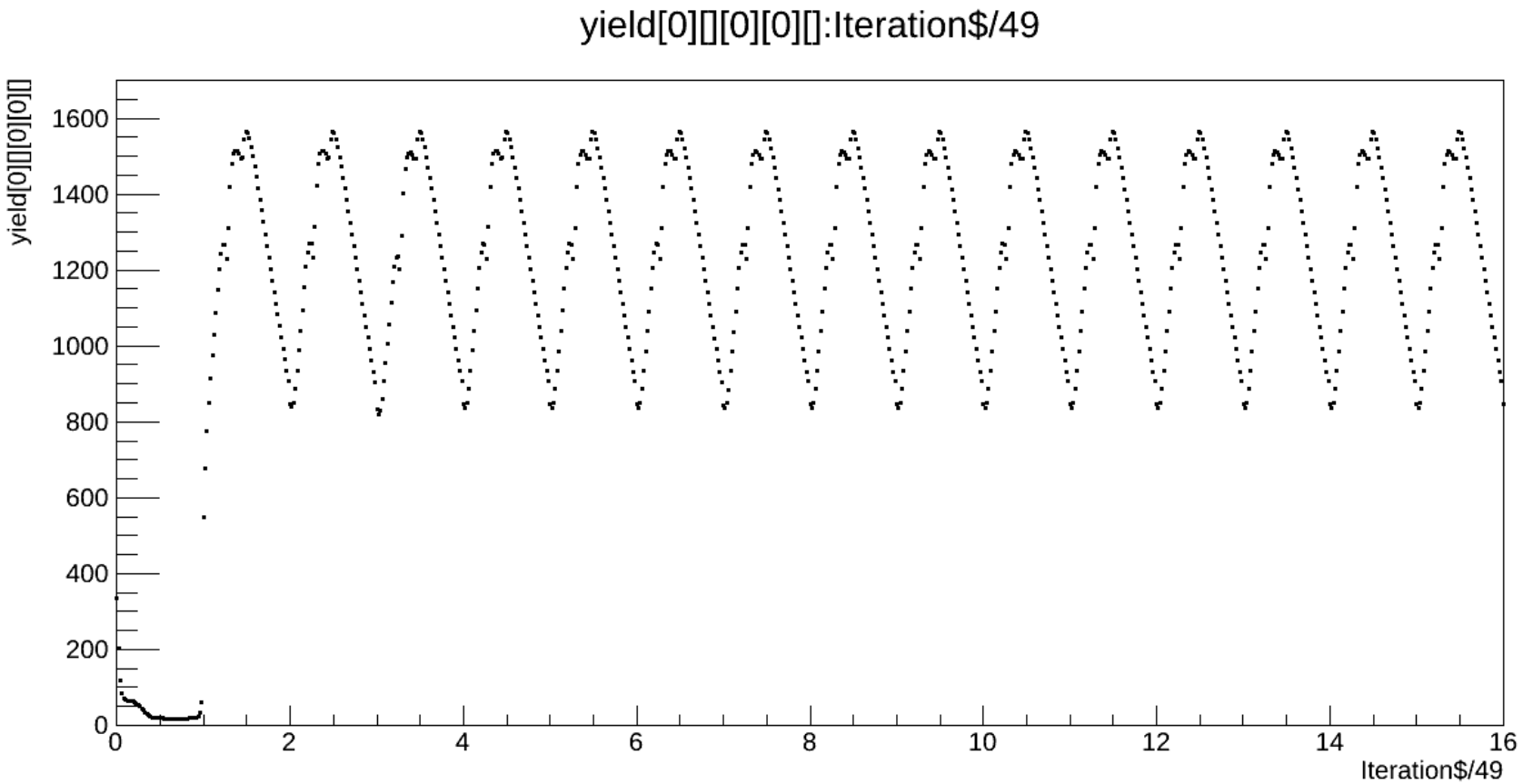
Yield for dropped pulses for DAQ21



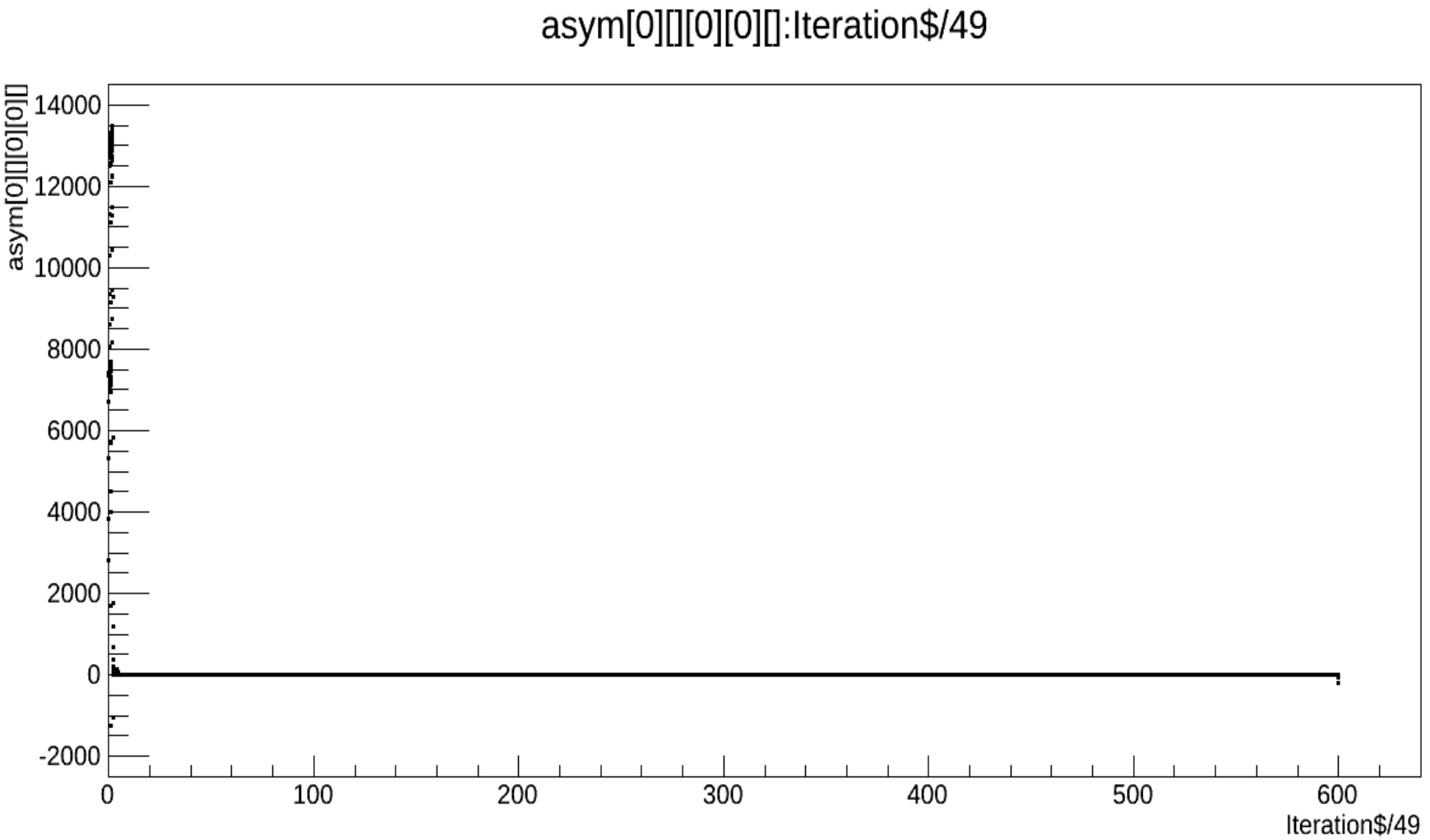
Yield for dropped pulses for DAQ24



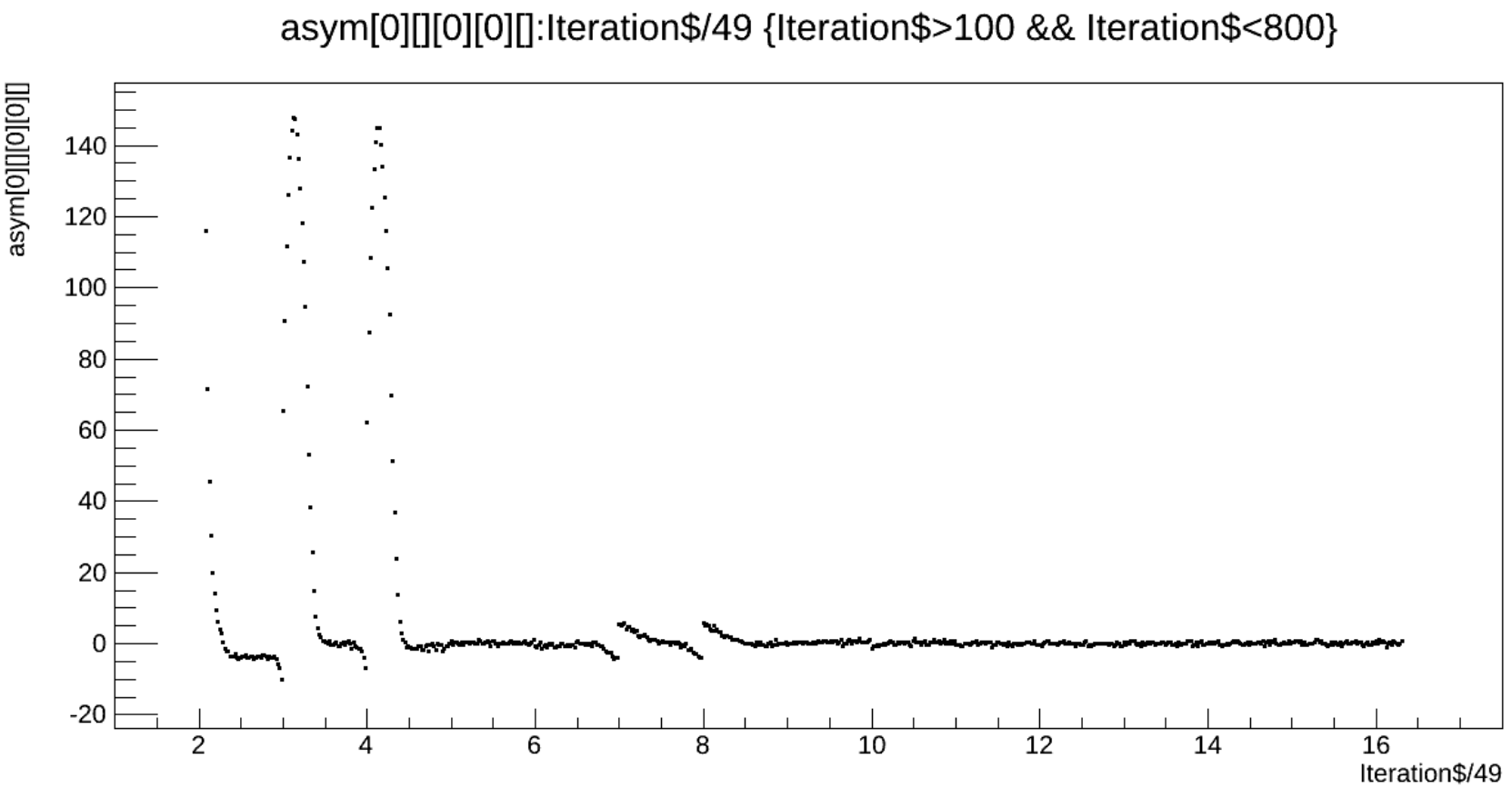
Yield Layer 0 Wire 0



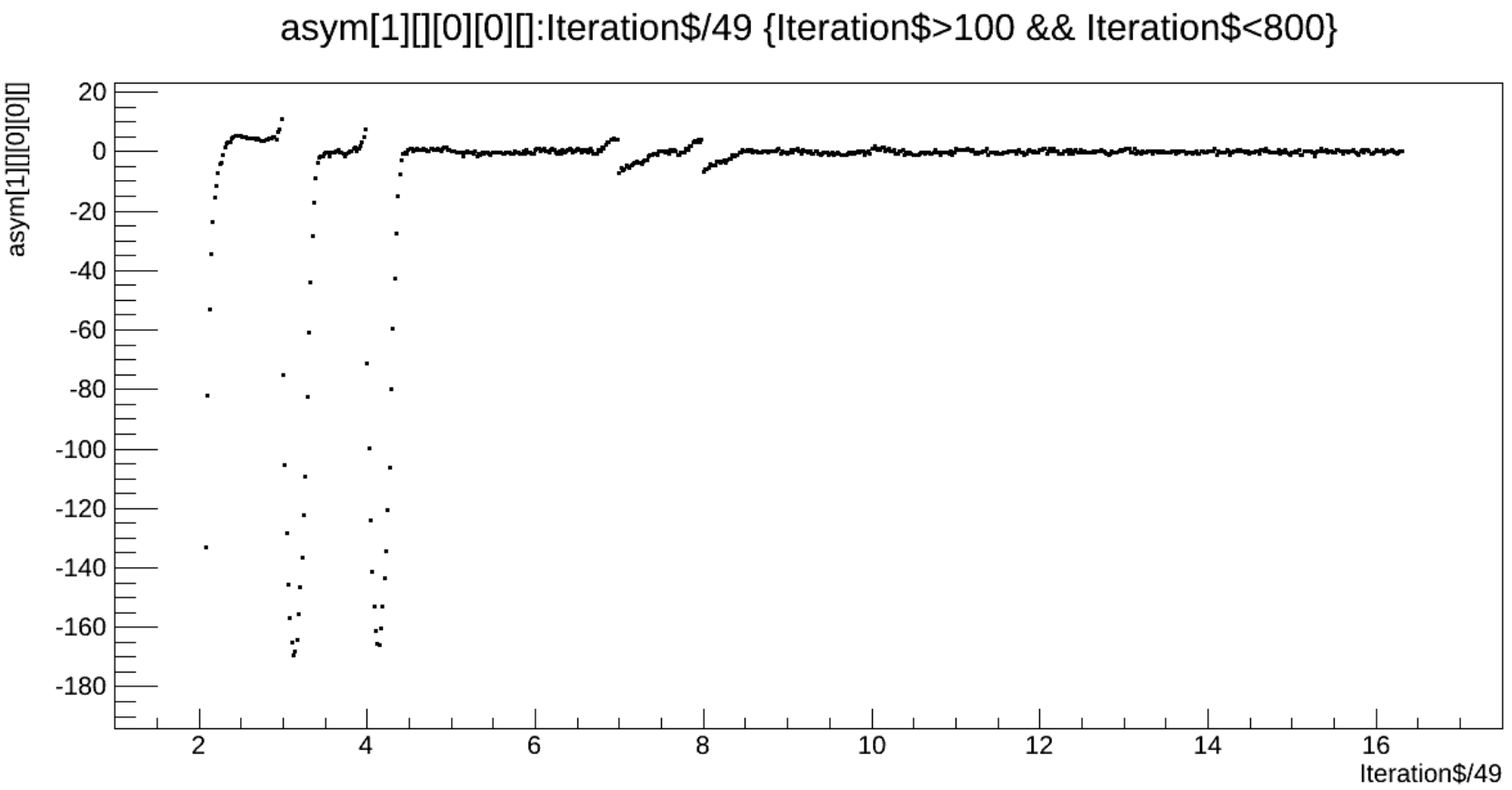
Layer: 0 Wire: 0 SF off on dropped



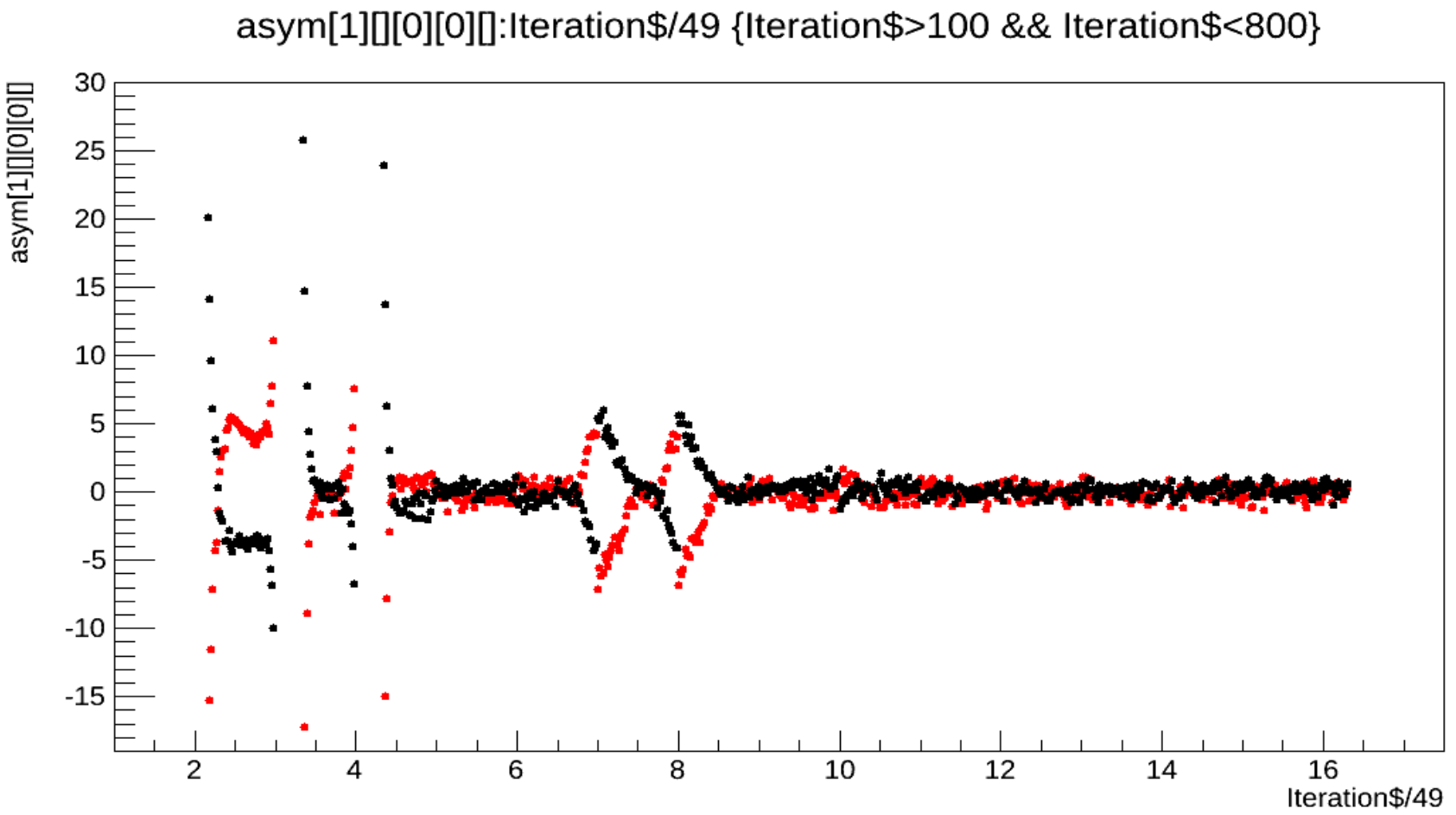
L 0 W 0 SF off on dropped pulses



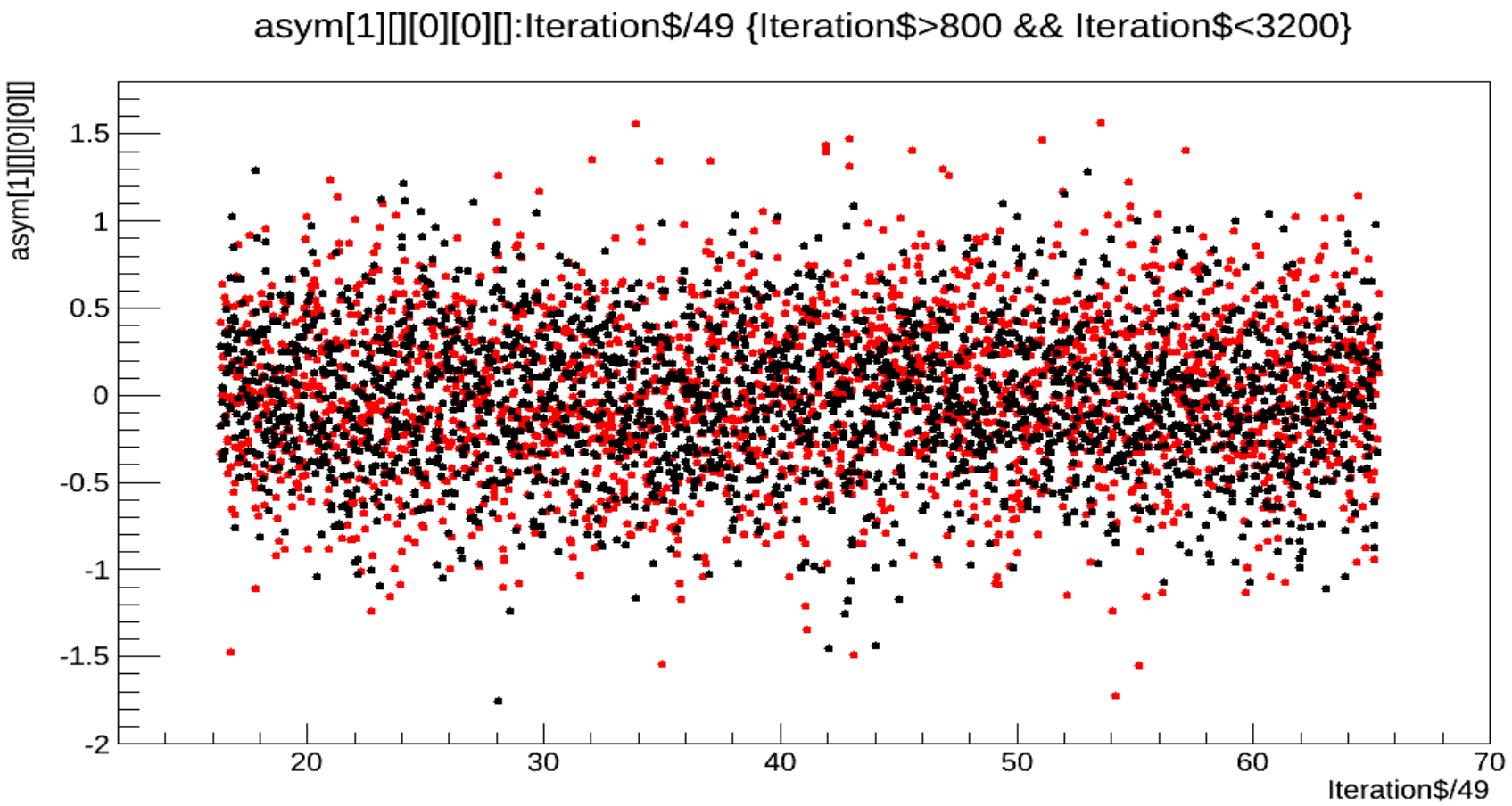
L 0 W 0 SF ON on dropped pulses



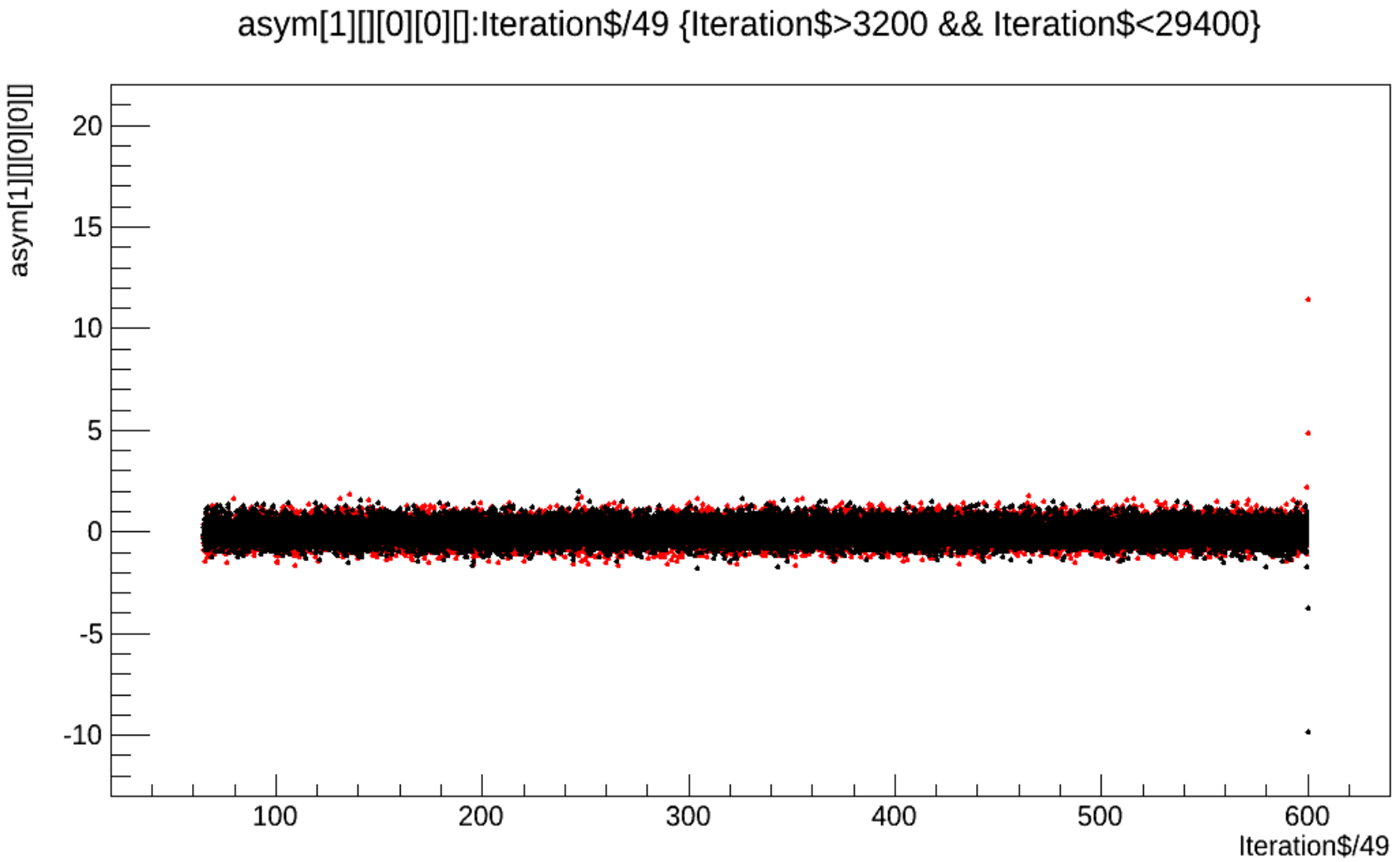
UD raw asym :SF on vs Off



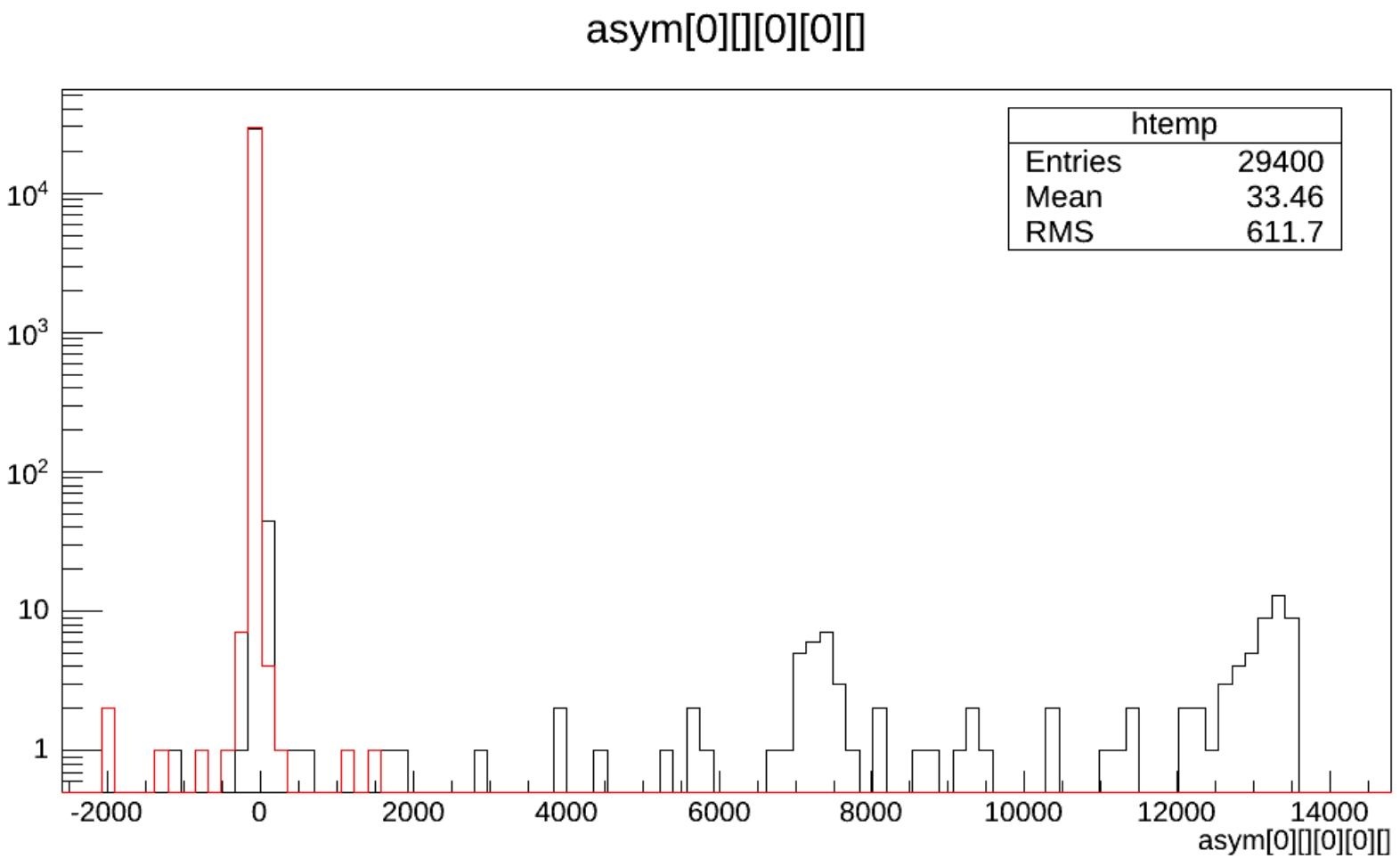
UD raw asym :SF on vs Off



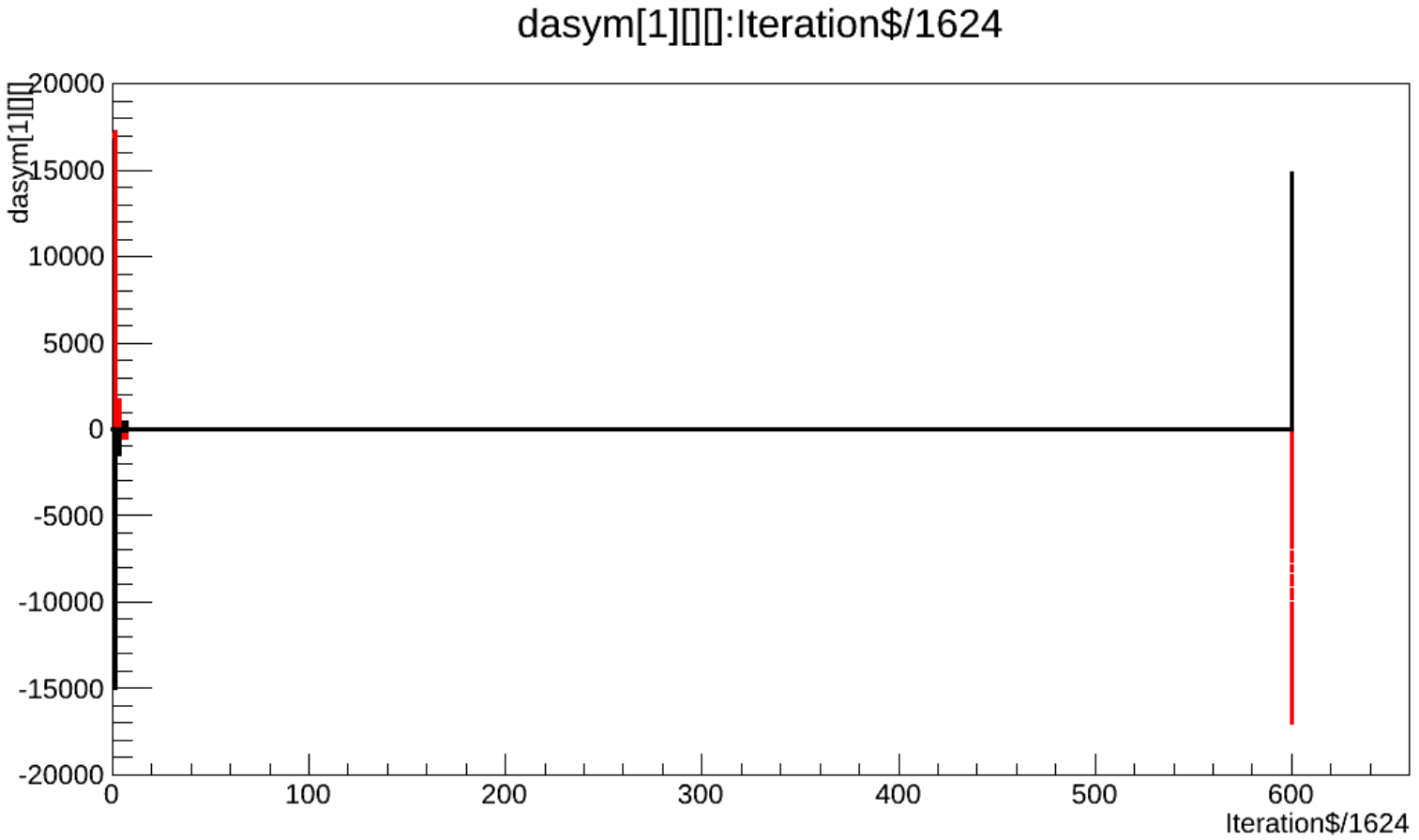
UD raw asym :SF on vs Off



UD raw asym :SF on vs Off **(on left its out of scale)**



Beam (M1) asym: SF on vs off



Beam(M1) asym: SF on vs off