

DATA

run_010516	Apr5
run_010523	Apr9
run_010535	Apr9
run_010545	Apr9
run_010554	Apr10
run_010562	Apr10
run_010569	Apr11
run_010572	Apr11
run_010574	Apr11
run_010608	Apr13
run_010616	Apr14
run_010619	Apr14

Method

Select SND events if:

- there is at least one hit in each of DS3V, DS3H-left, DS3H-right, DS4 (soft)
- in addition, at least one hit in DS2 (medium)
- in addition, at least one hit in DS1 (hard)

Using 'hard' in the following.

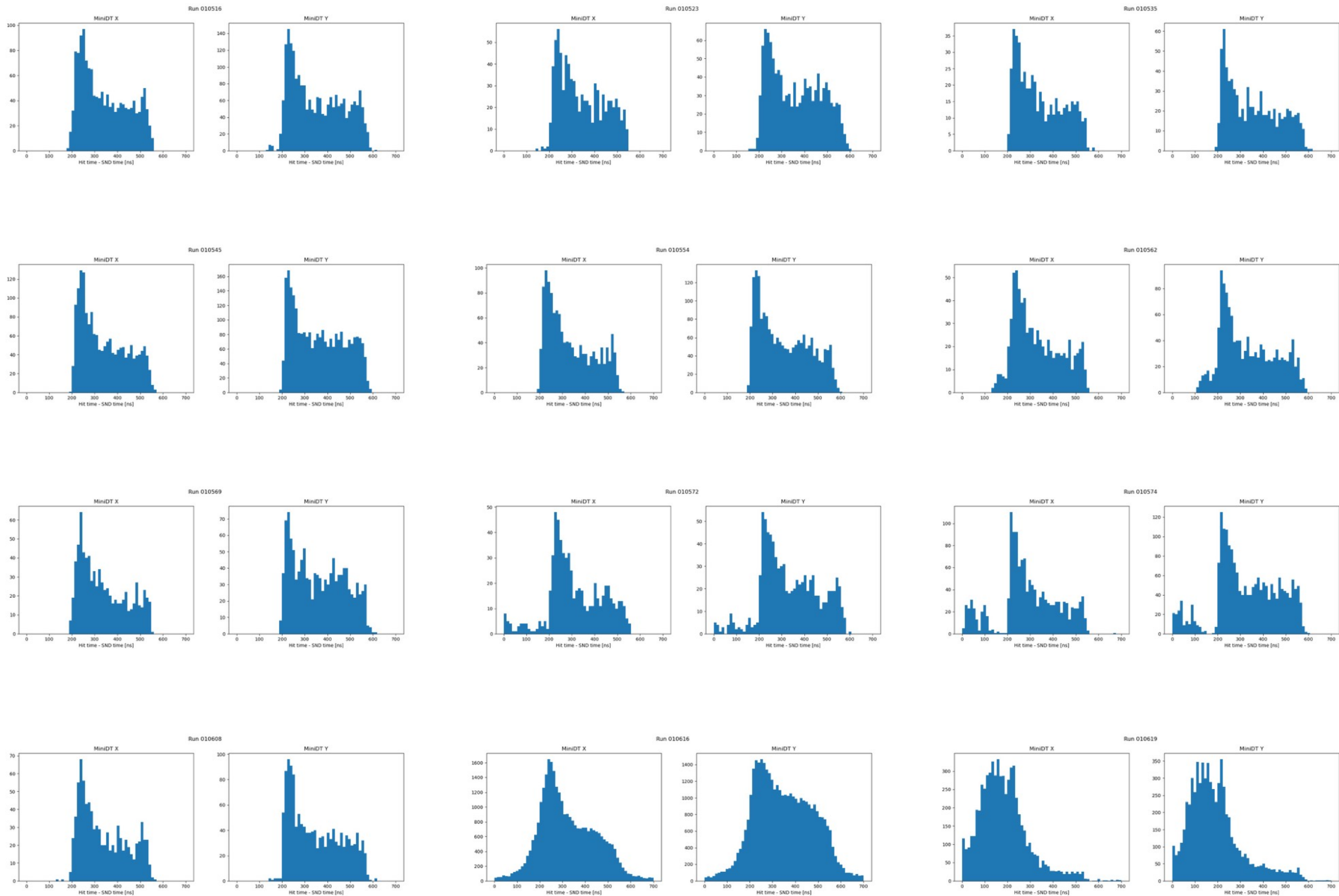
Then: use the SND **event** timestamp to select hits and trigger primitives from MiniDTs raw data, knowing the average TP offset was found previously at about 190 ns (this is also the offset of hits with zero drift time).

The selection window was used at [0,700] ns in the following.

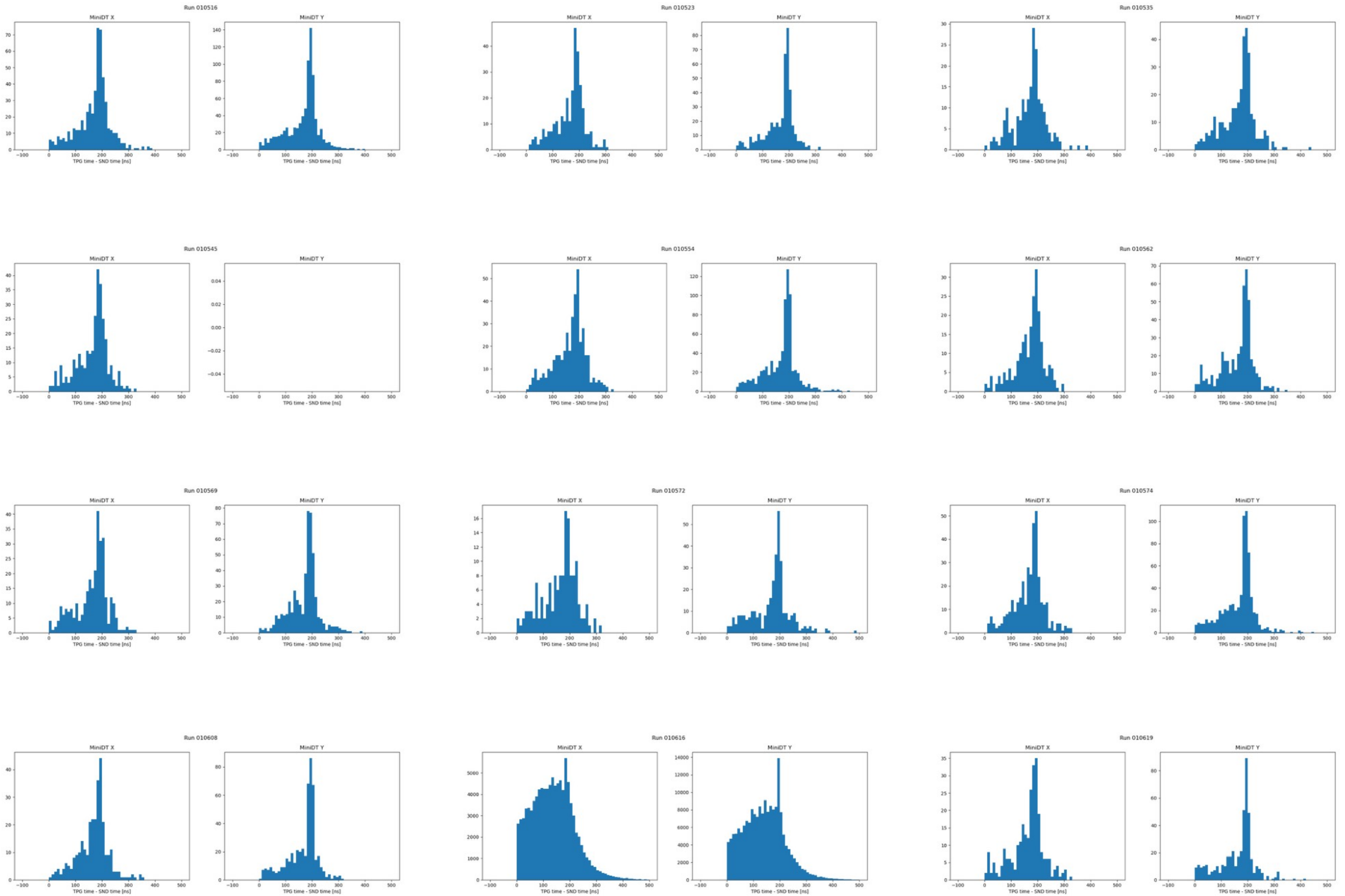
The time difference between hits/TPGs and SND event timestamp is plotted, showing timeboxes and TPG timing information.

Hit and TPG multiplicities are then plotted as a function of the run to visualise possible trends.

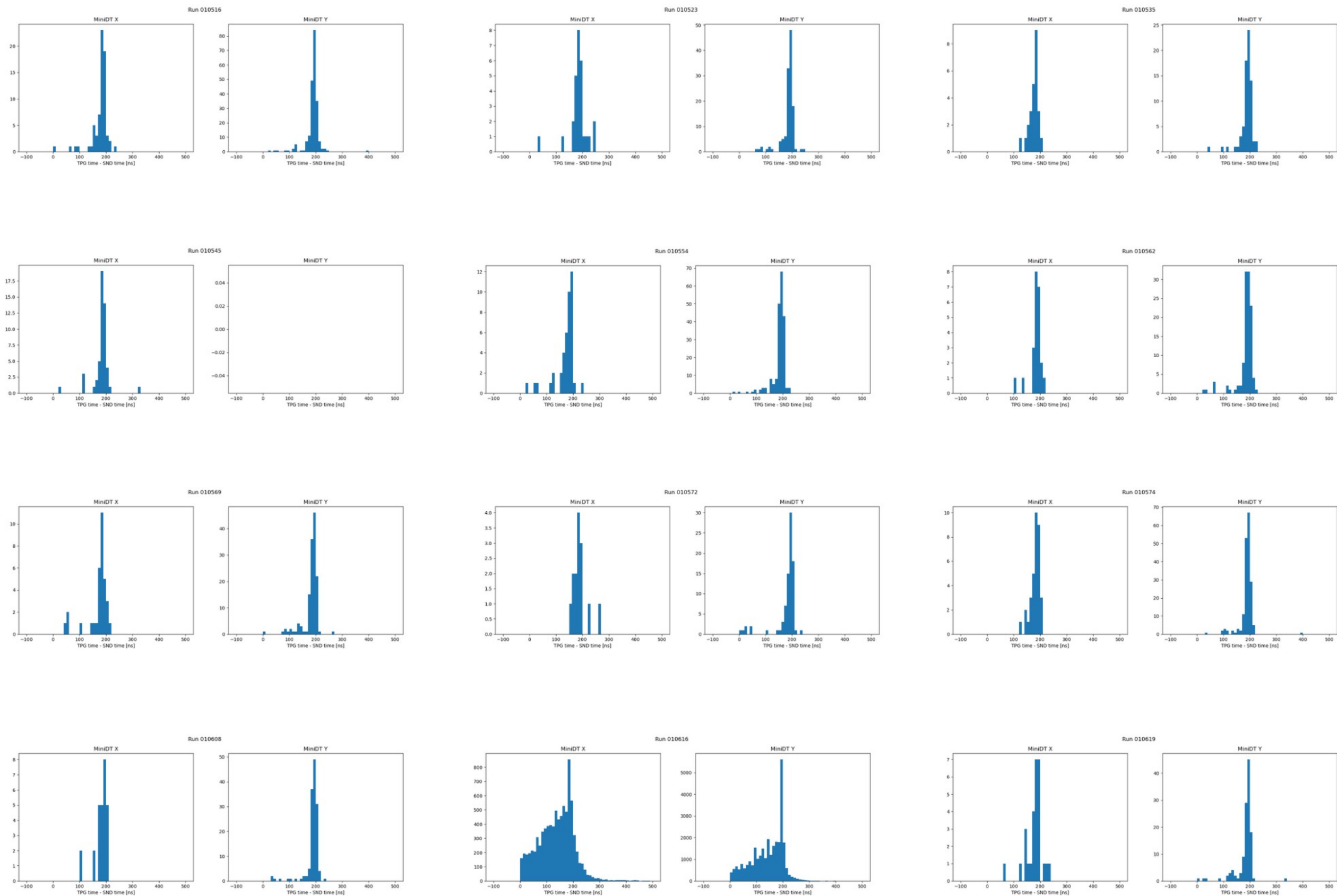
Timeboxes



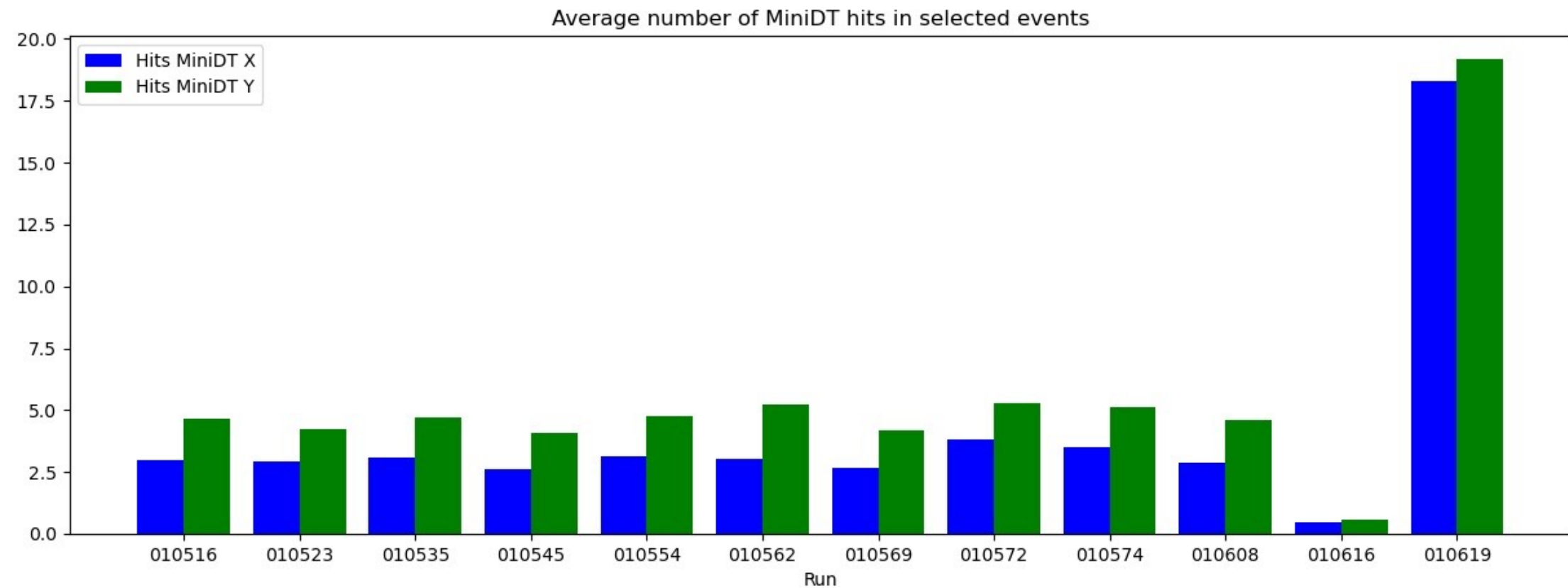
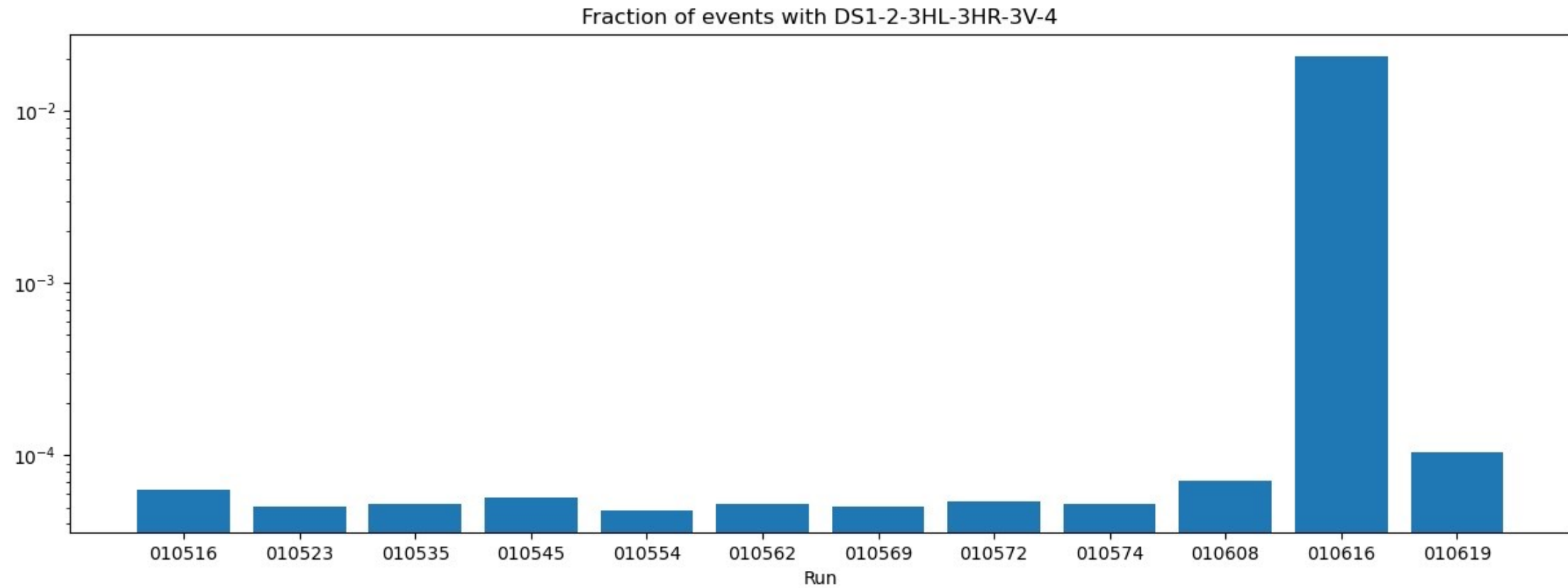
Trigger Primitives, all qualities



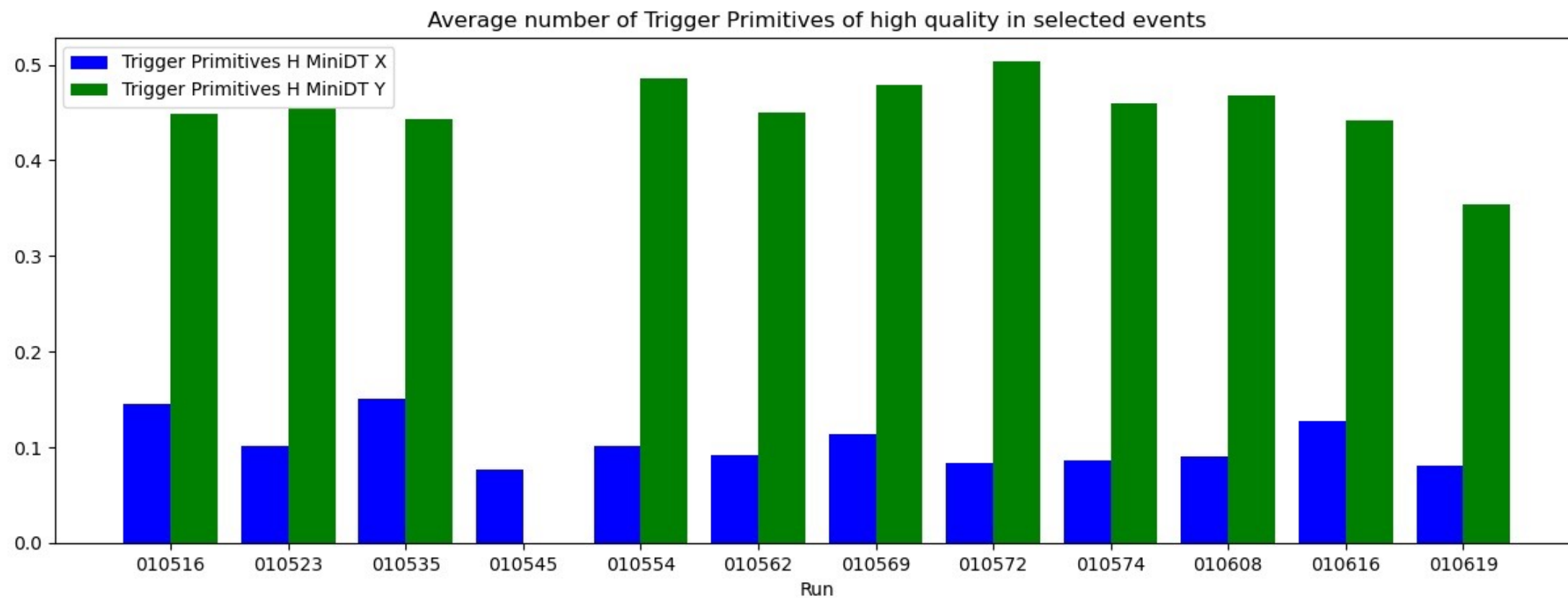
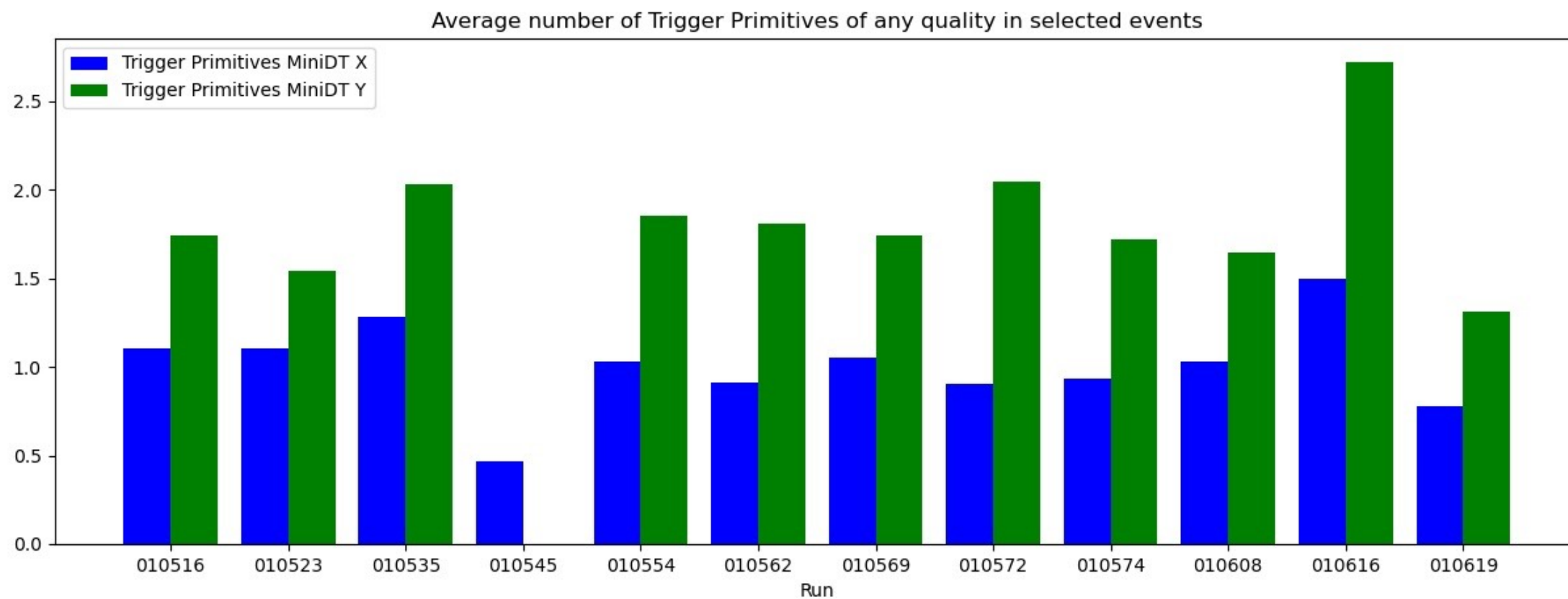
Trigger Primitives, H only



Trends - DS selection & Average N of MiniDT hits



Trends - Average N of Trigger Primitives



Trends - ratio H/all for Trigger Primitives

