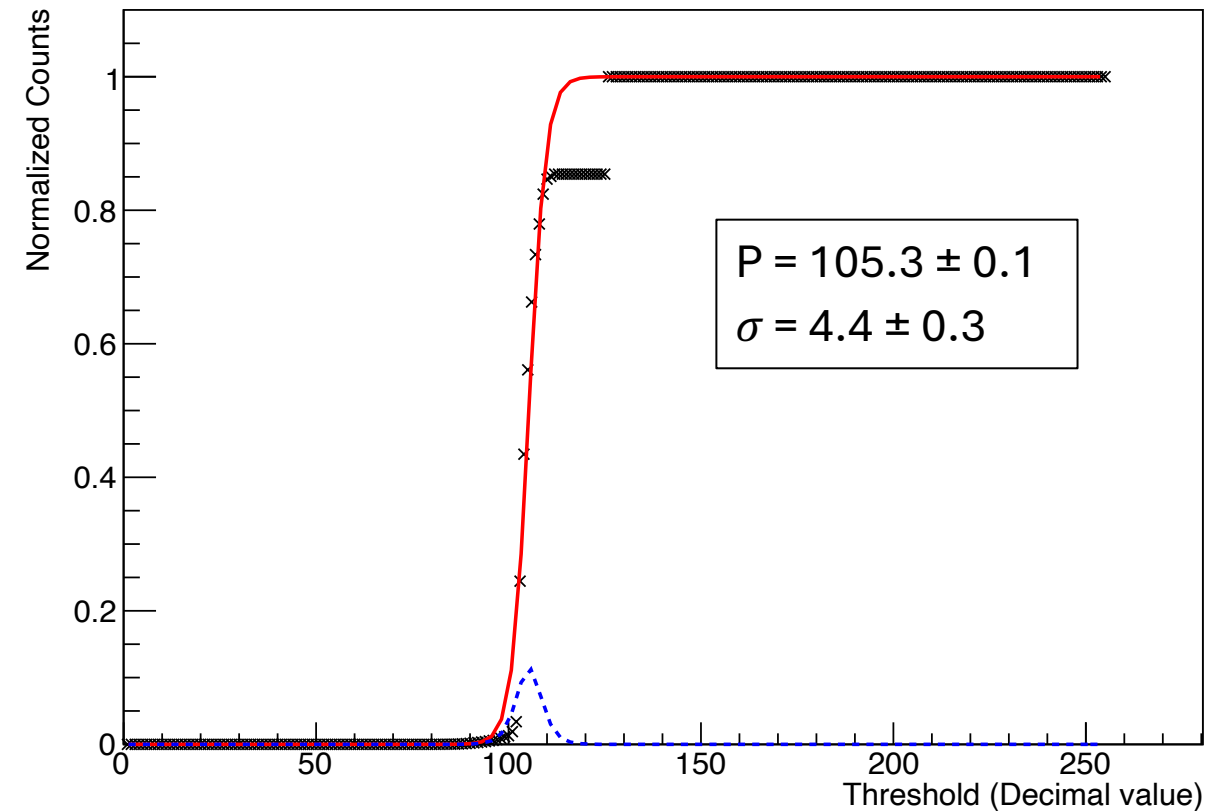
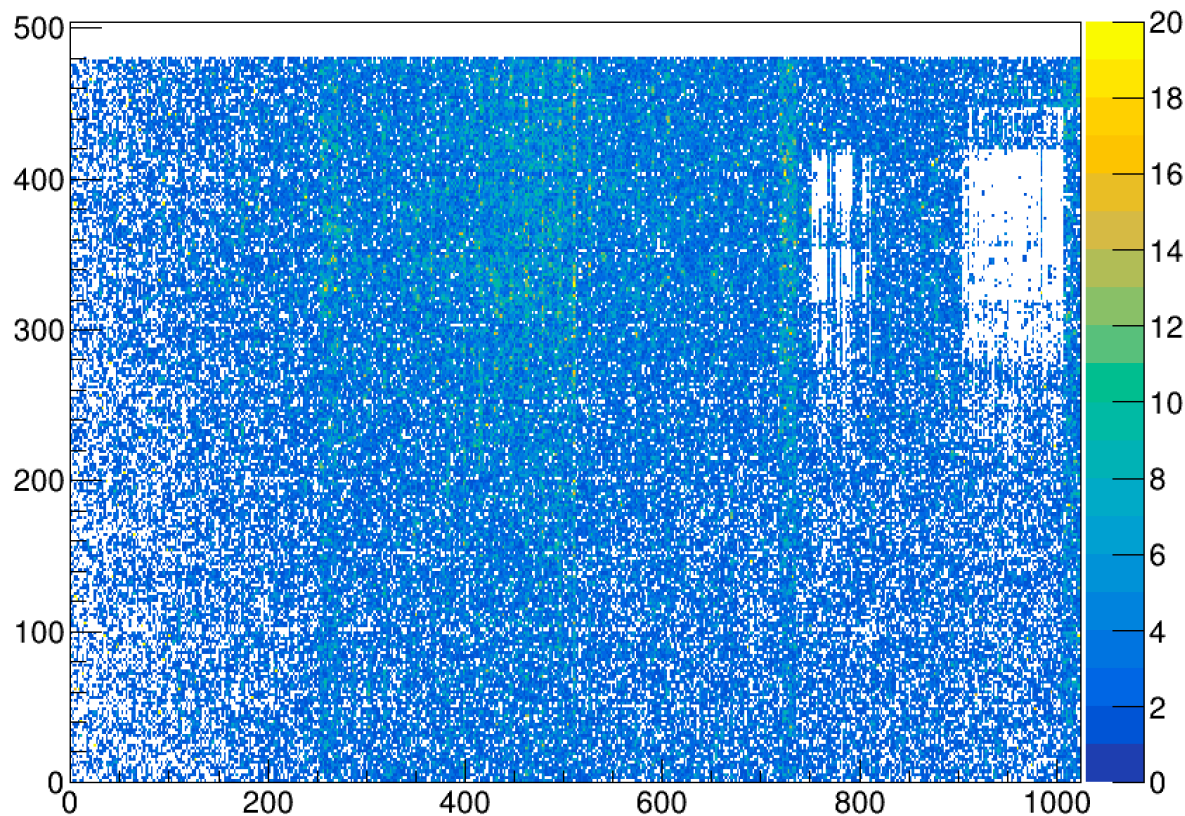
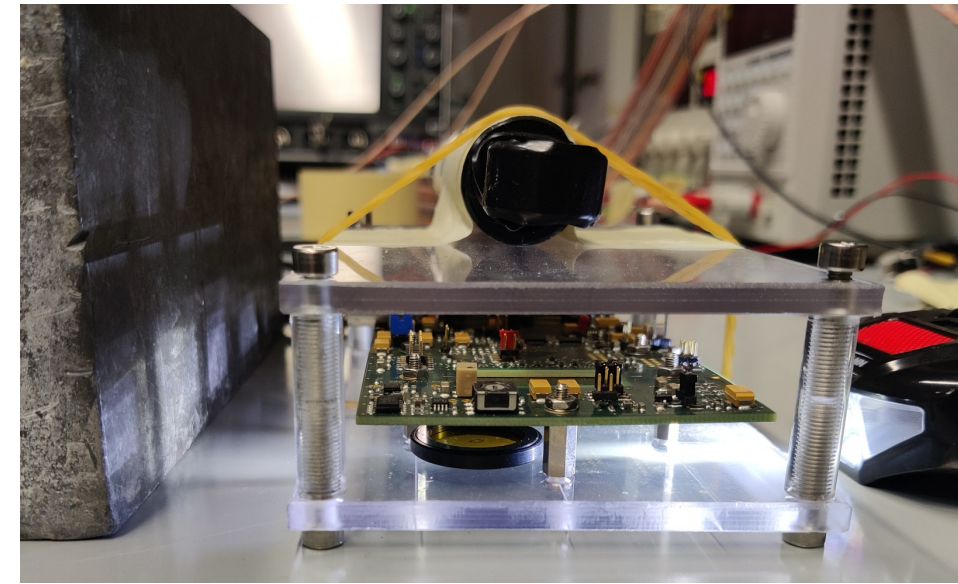
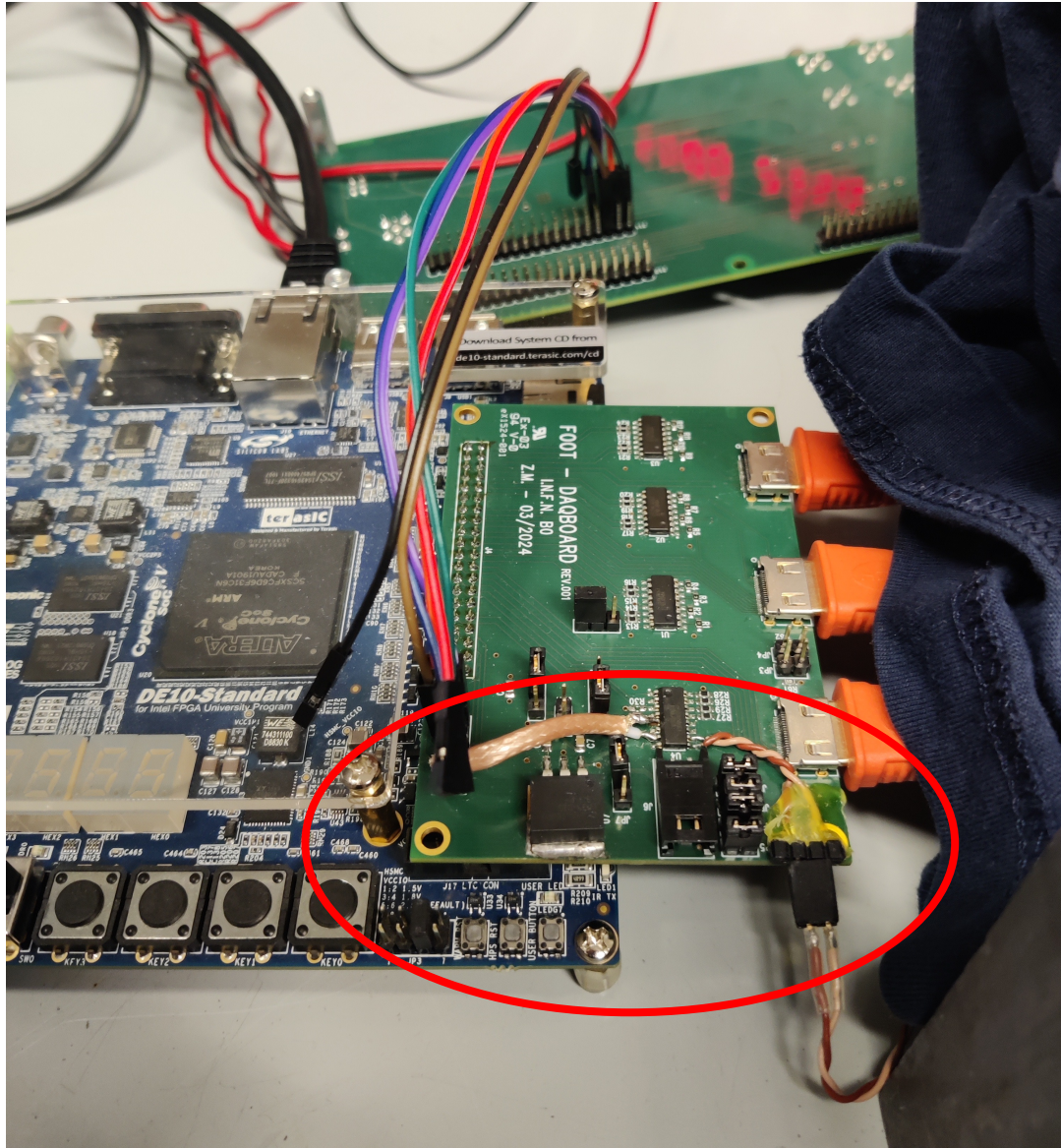


RECAP

- Threshold scan for each region
- First data acquisition with random and external trigger and radioactive source



NEW DAQ board



Added a differential pair for the clock @320 MHz.

⇒ Both clocks (40 and 320 MHz) are generated by FPGA.

⇒ Less noise.

⇒ Decodes up to 4 output lines.

Data Acquisition

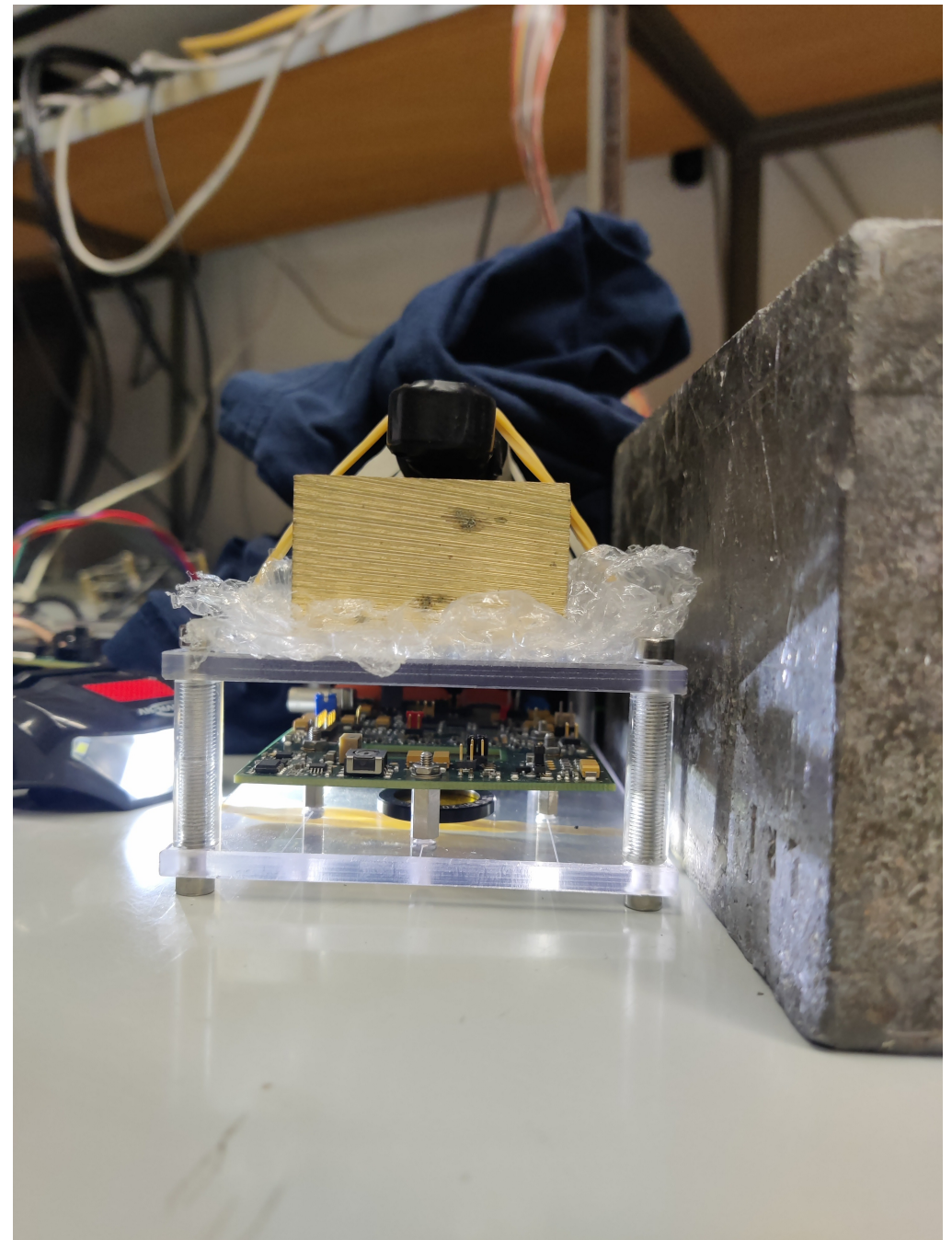
A lot of data acquired (also during the night)
BUT any significant results.

Collimator $\Rightarrow$ parallelepiped of brass with a hole ($\varnothing 2.5$ mm).

Tested various threshold values.

Tested some cuts on the data during analysis:

- Events with a number of hits smaller than 10
- Consideration on the timeStamp



Comments on data (one example)

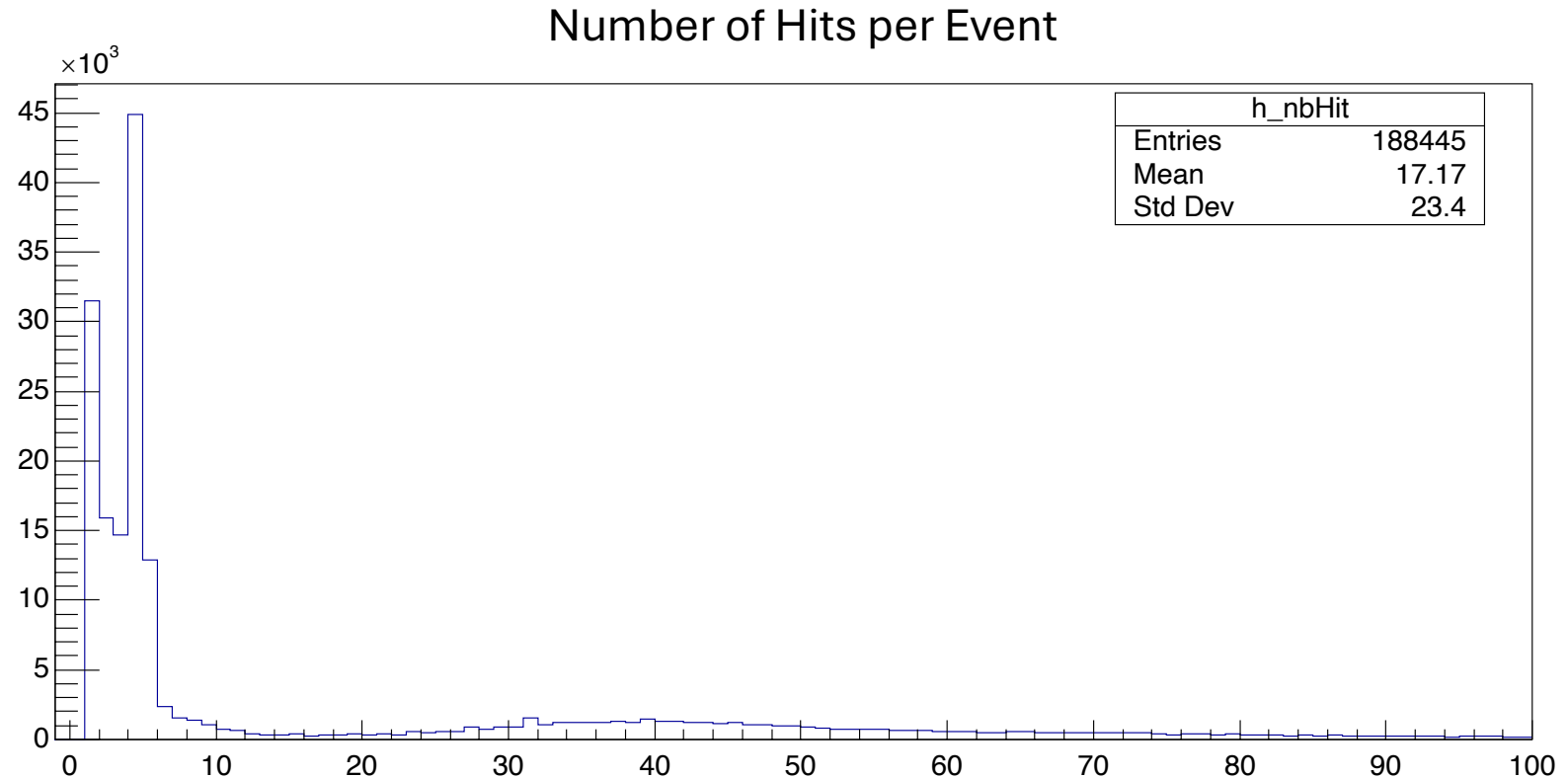
Total number of Events = 844965

Number of empty events = 322164
(38%)

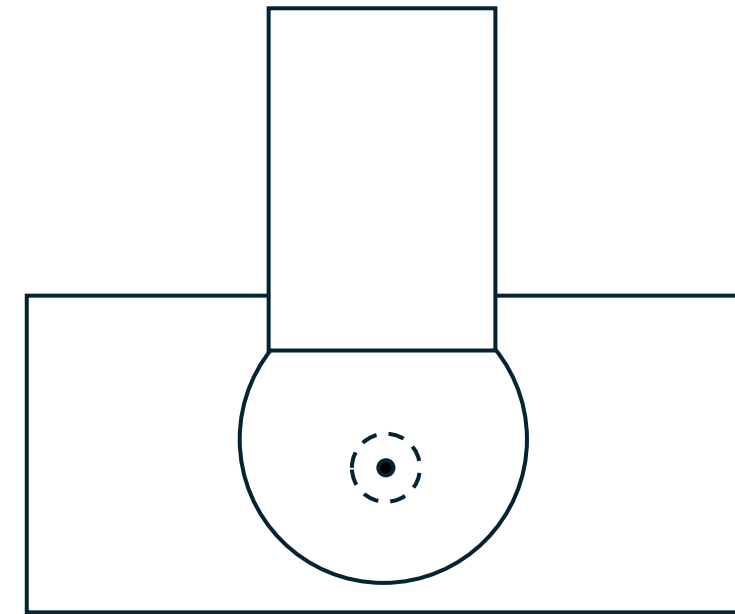
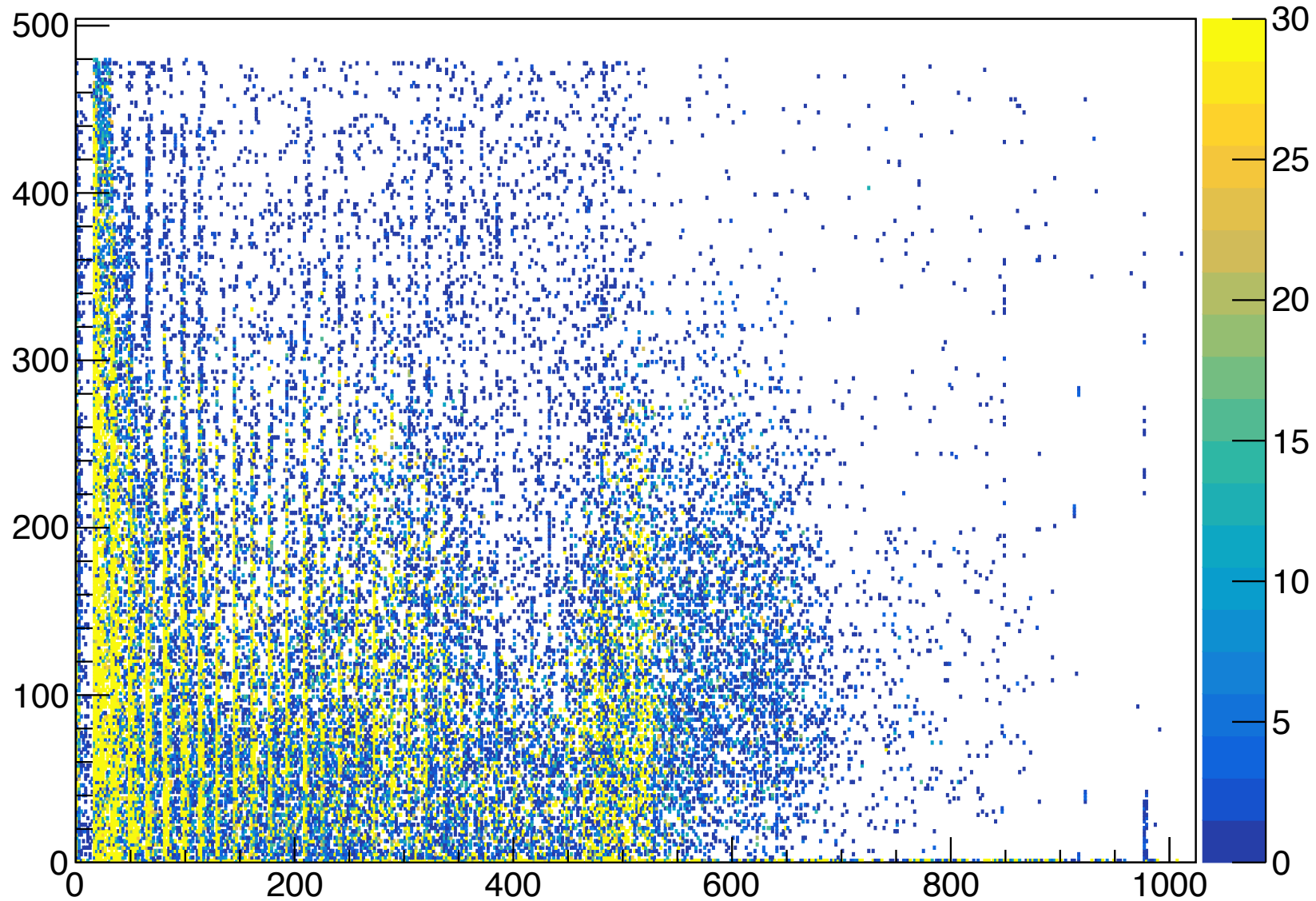
Number of “good” events = 522801
(62%)

Number of NO hit events =
334356 (64%)

Number of events with at
least 1 hit = 188445 (36%,
22%)



Result



- Hole
- Radioactive Source