Estimated statistics for TB-26-July-H4

Type	Estimated number of events
3mV/fC, 3fC thr	2.8 M / board
12mV/fC, 3fC thr	1.6 M / board
3mV/fC, 1.5fC thr	3.8 M / board
12mV/fC, 1.5fC thr	1.3 M / board
12mV/fC, 1.0fC thr	<unknown>
12mV/fC, 0.8fC thr	<small>

Mean merging efficiency (summary): 30-40% of APV events, 7-8% of STM-VMM events

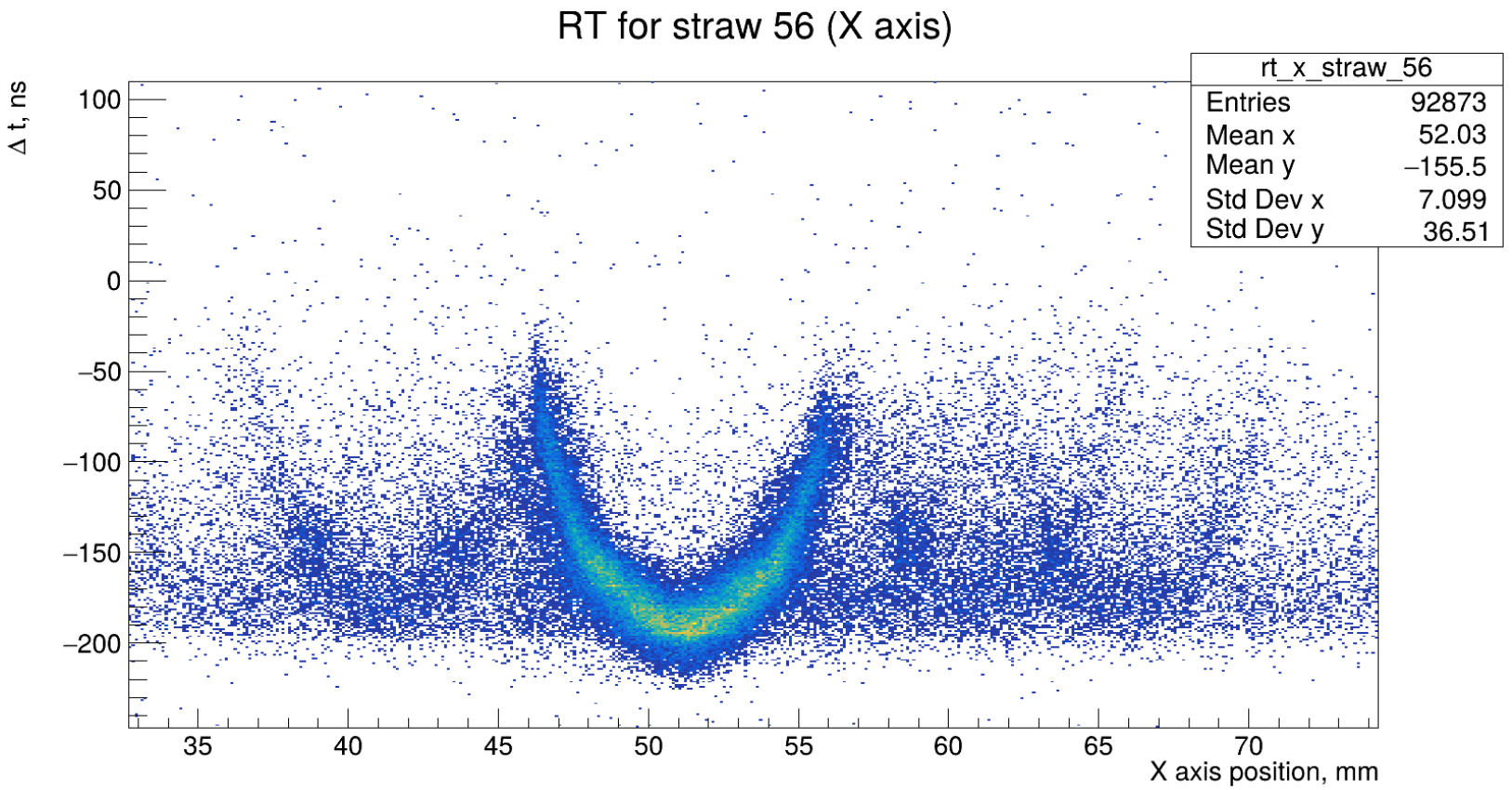
3mV/fC, 3fC thr (run 53)

```
Entry 490000 / 498449
Type                                  : N ( % to pvev | % to all merged | % to APV | % to VMM)
Merged - all events                   : 498449 (       |               | 48.8% | 9.9%)
Merged - passed preliminary checks    : 498449 (100.0% | 100.0% | 48.8% | 9.9%)
Merged - apv track                    : 433542 (87.0% | 87.0% | 42.4% | 8.6%)
Merged - apv single track             : 433542 (100.0% | 87.0% | 42.4% | 8.6%)
Merged - single track & STM sci       : 433542 (100.0% | 87.0% | 42.4% | 8.6%)
Merged - single track & STM sci & STM hit : 416255 (96.0% | 83.5% | 40.8% | 8.3%)
```

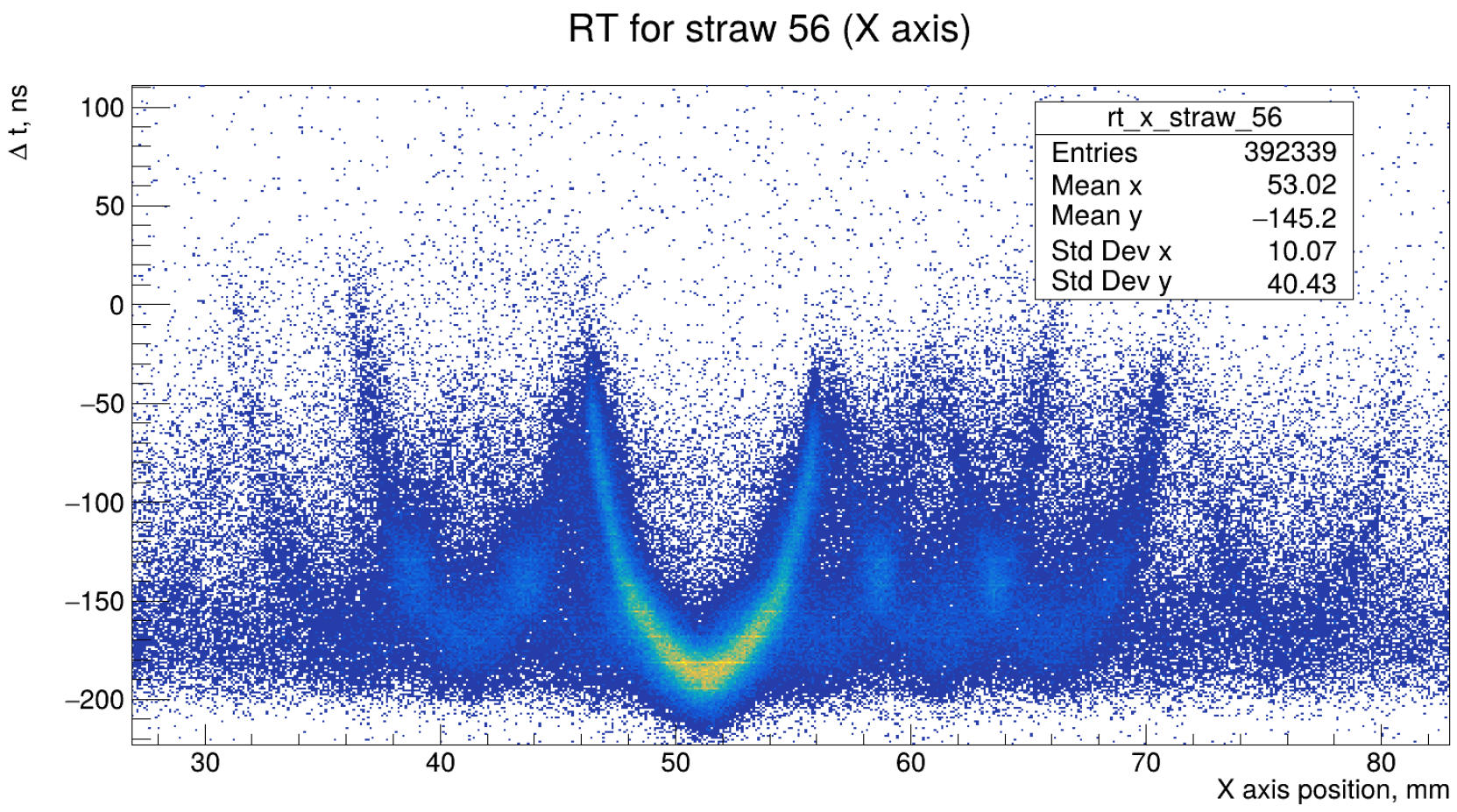
3mV/fC, 1.5fC thr (run 107)

```
Type                                  : N ( % to pvev | % to all merged | % to APV | % to VMM)
Merged - all events                   : 1675896 (       |               | 39.3% | 9.7%)
Merged - passed preliminary checks    : 1675896 (100.0% | 100.0% | 39.3% | 9.7%)
Merged - apv track                    : 1367549 (81.6% | 81.6% | 32.1% | 7.9%)
Merged - apv single track             : 1367549 (100.0% | 81.6% | 32.1% | 7.9%)
Merged - single track & STM sci       : 1367549 (100.0% | 81.6% | 32.1% | 7.9%)
Merged - single track & STM sci & STM hit : 1311634 (95.9% | 78.3% | 30.8% | 7.6%)
```

Tracking based on Givi's MM only
Run 53: 3mV/fC, 3fC thr

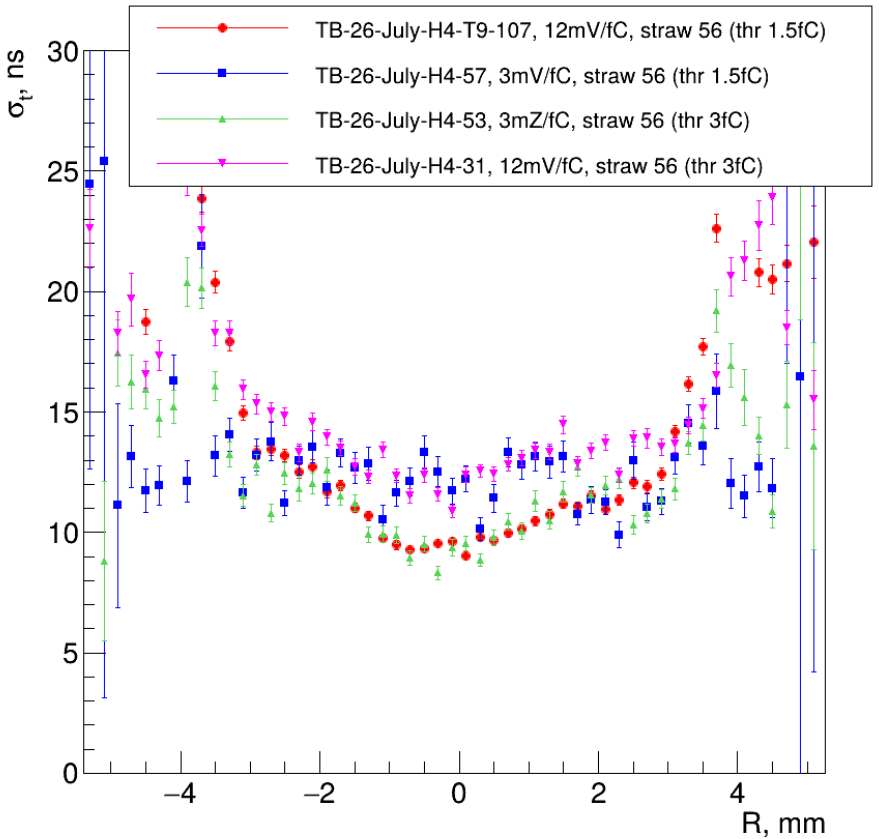


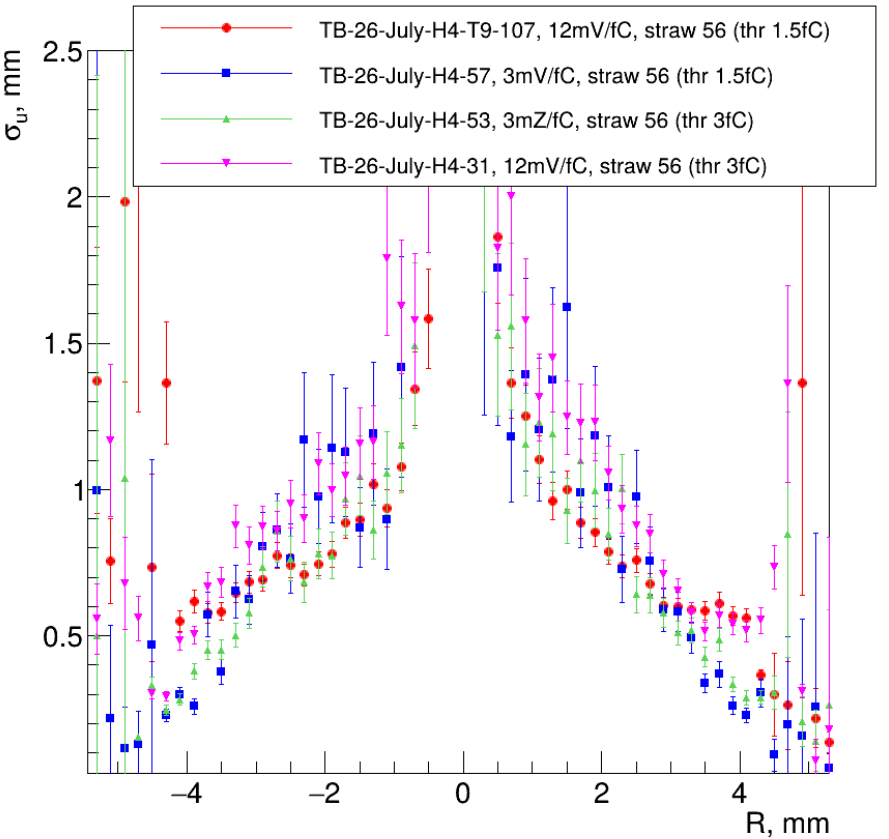
Tracking based on Givi's MM only
Run 107: 3mV/fC, 1.5fC thr



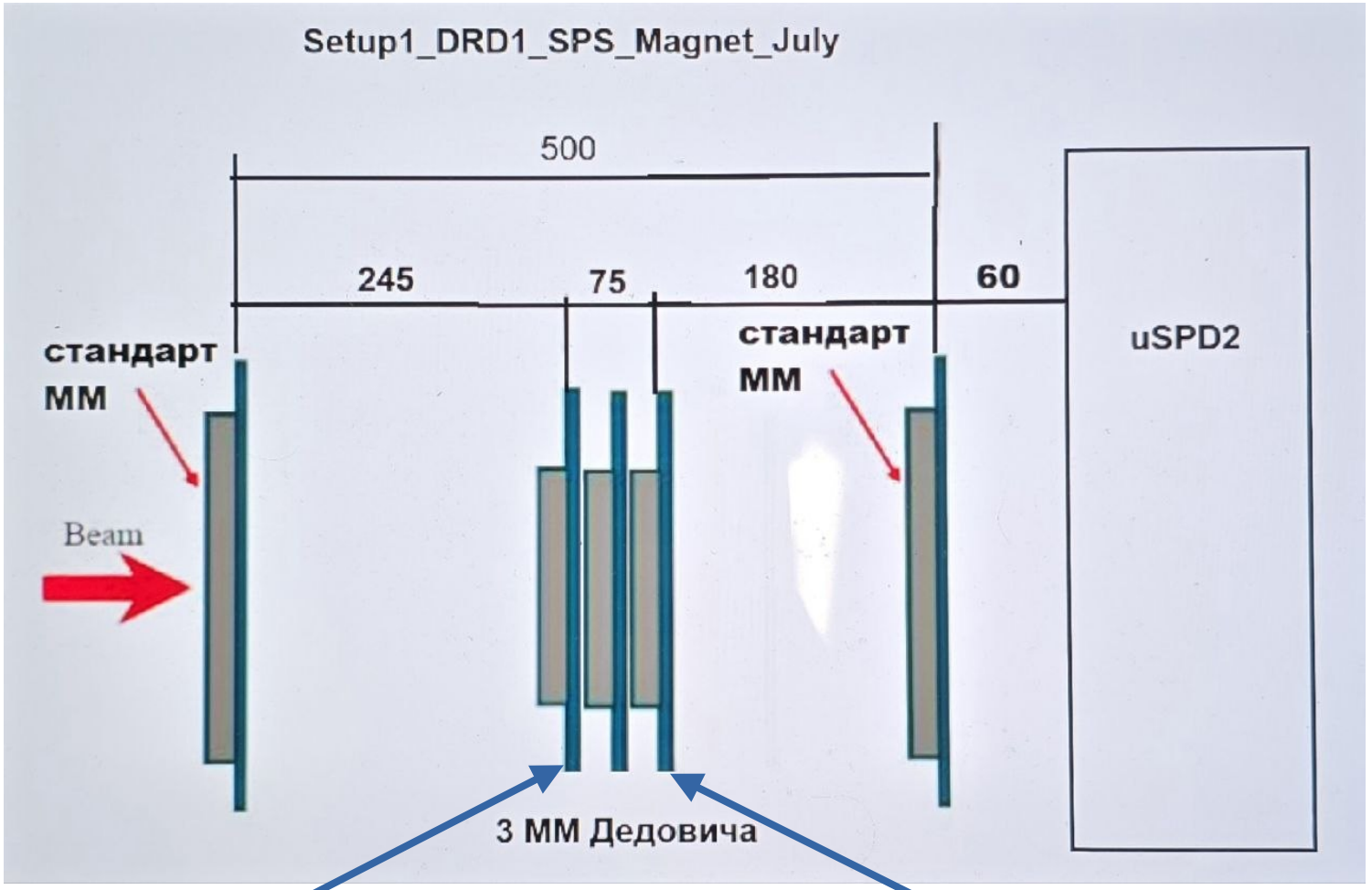
Very first results:

- Tracking only via Givi MM
- No normal time calibration
- Straw rotation not checked





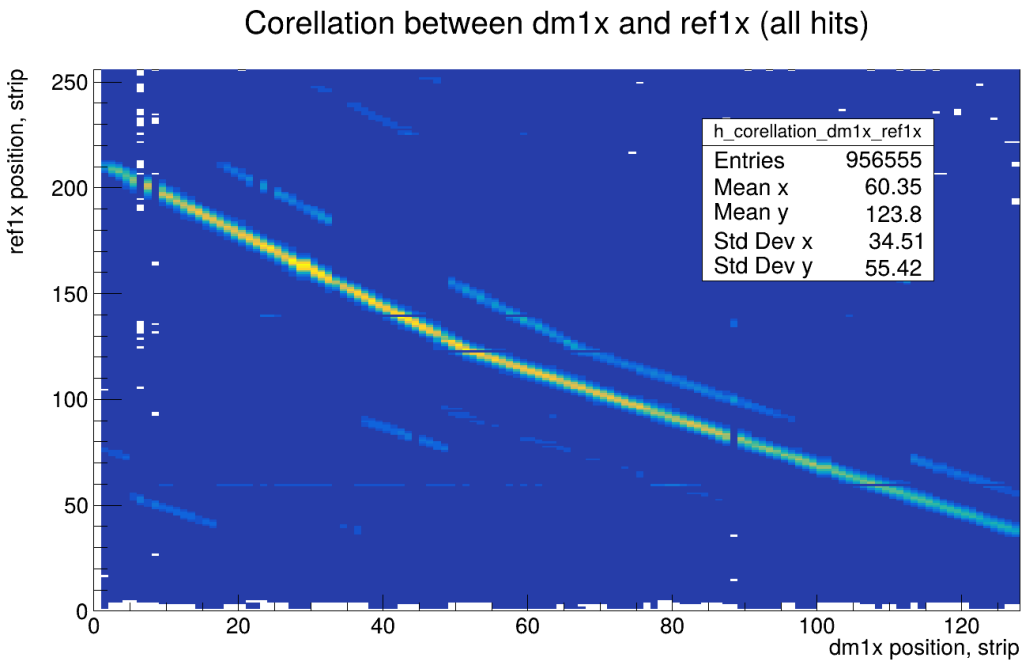
Alignment first try



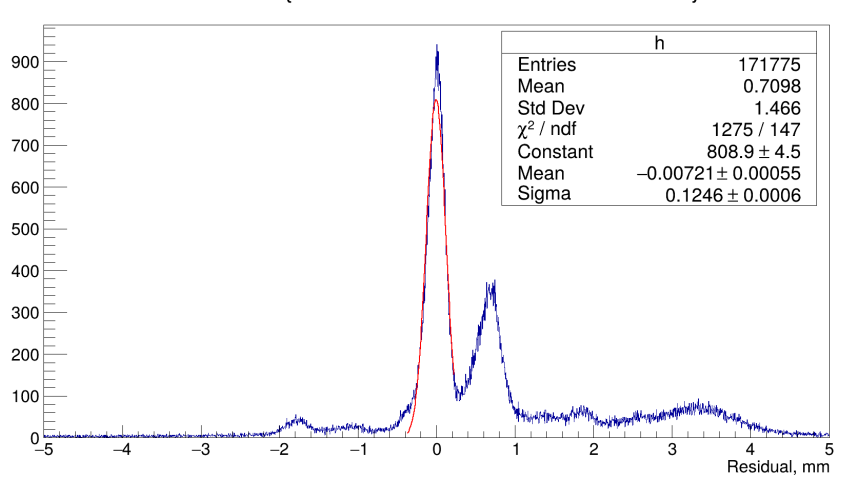
Run 26 – first try to align Dmitry's MM

All Dmitry MM shifted to ~5mm in X axis

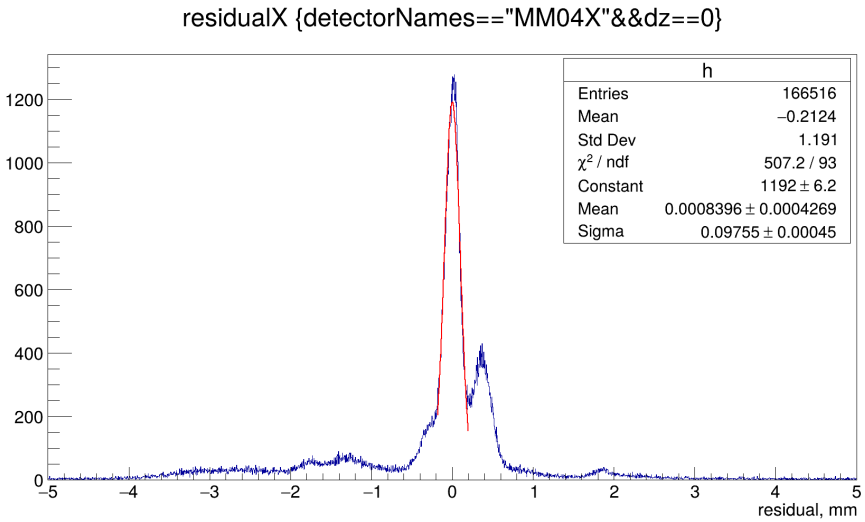
Corellation between Givi's and Dmitry's MM



First try residual for 700um part



First try residual for 450um part



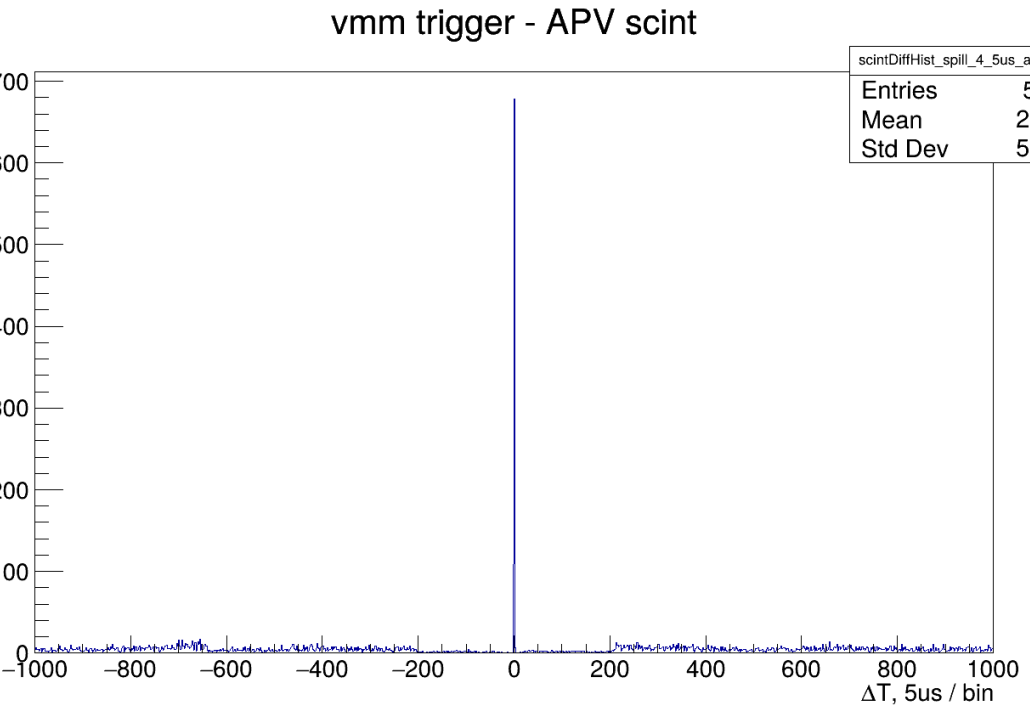
TODO

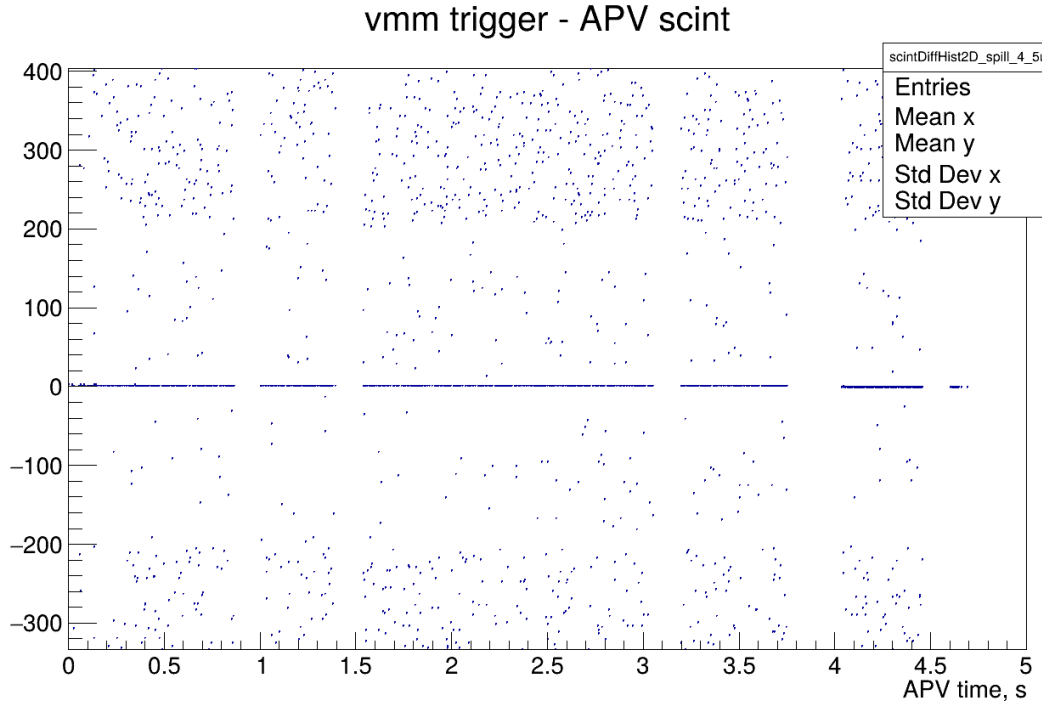
TODO

- TB
    0. Merge all
    1. MM Alignment
    2. Full tracking (all MM)
    3. Straw rotation
- Draw detailed threshold
- Calibration

Backup

“Good” apv spill – 700 ev / spill. Run 107, spill 4





“Bad” apv spill – 400 ev / spill. Run 107, spill 24

