Overlapping runs in the uToF dataset
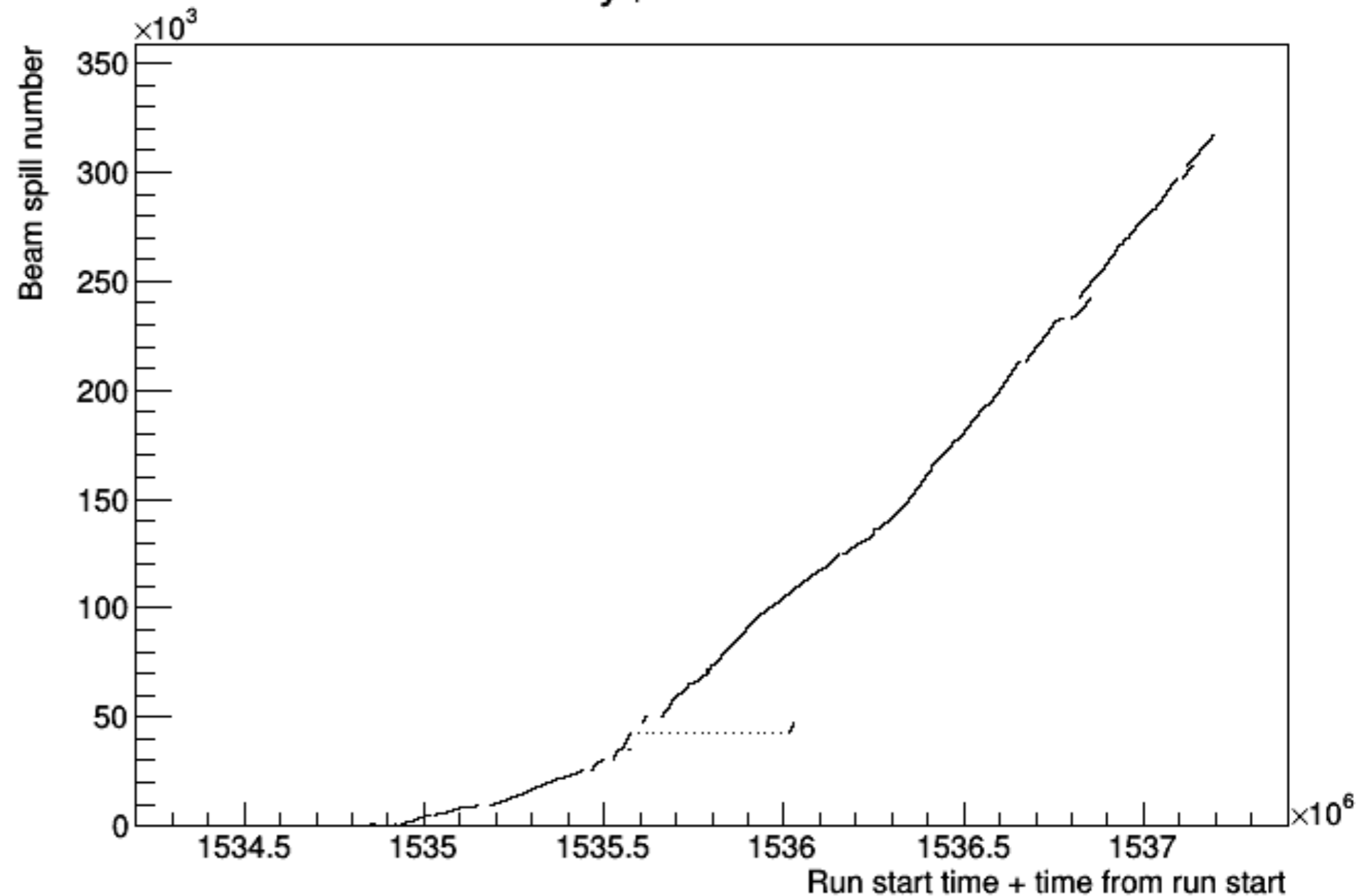
D. Brailsford on behalf of the software group
HPTPC analysis meeting
15/11/18

Overlapping utof runs
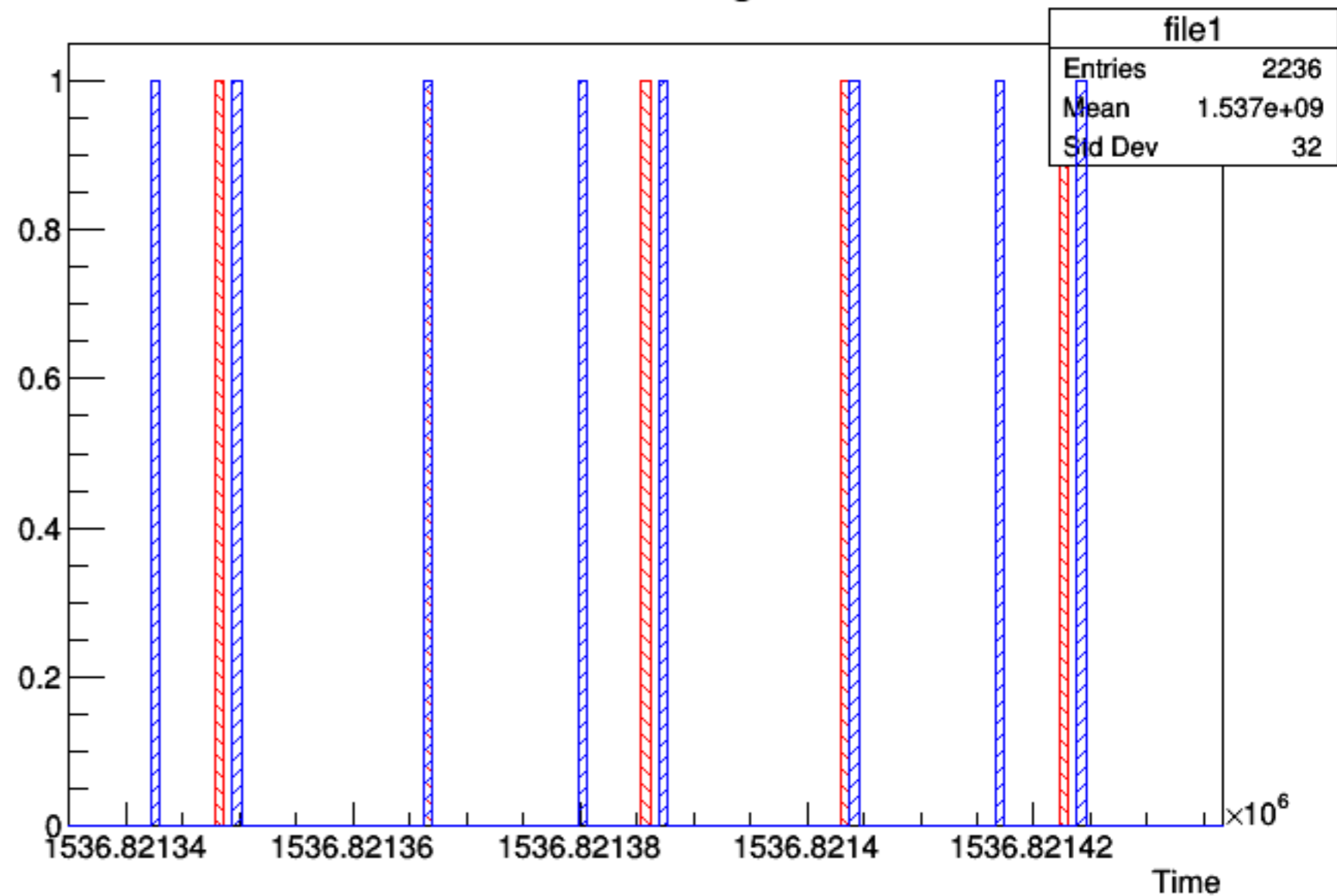
- Beam spill number assigned when new spill starts according to utof file

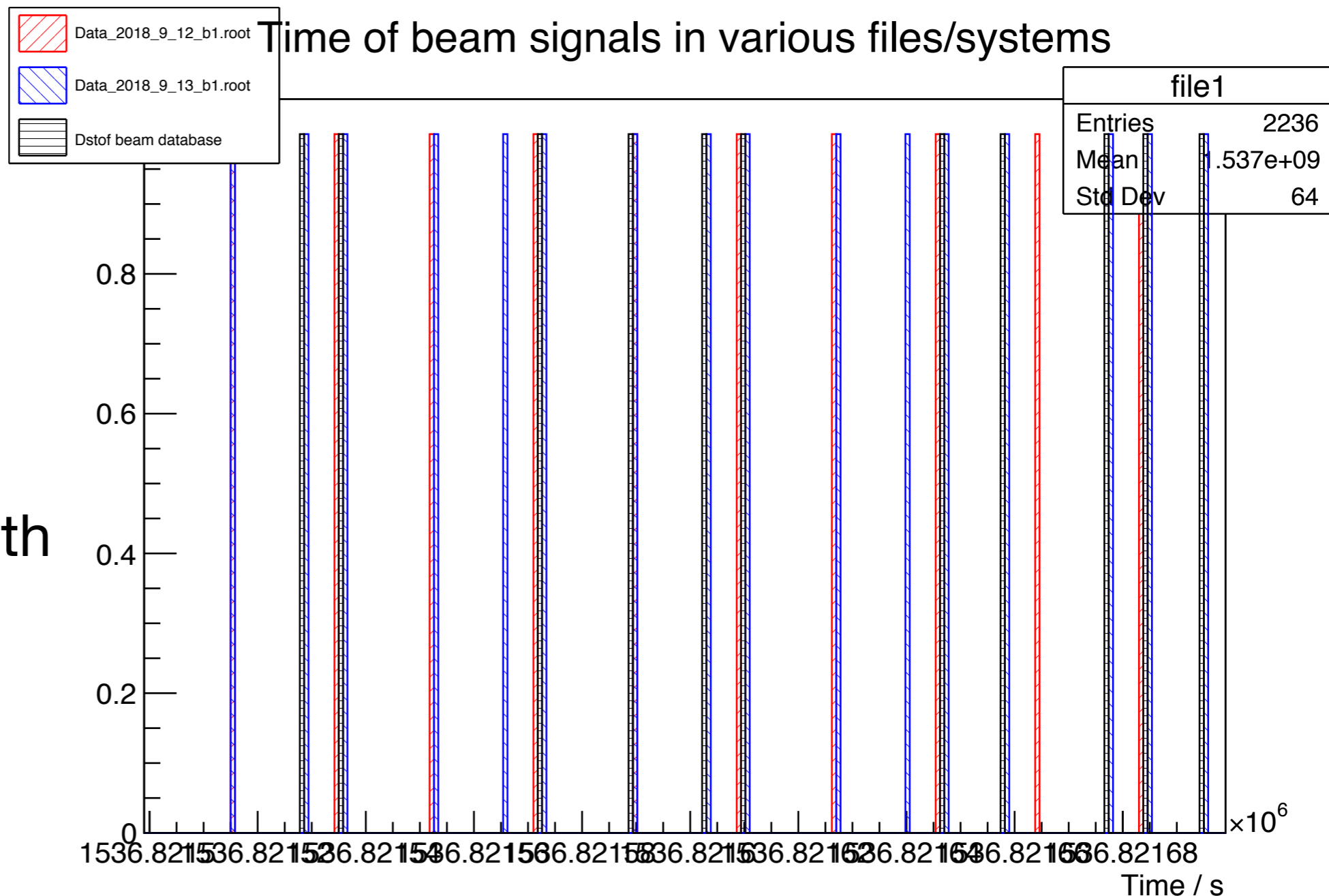- Multiple beam spills assigned the same time

  - Indicates overlap

Entry$:fakeUnixNs

Do overlapping files contain the same events?

- Plot shows time of utof triggers from two files in an overlap region

- Answer is: kind of

file 1 beam signals

file1	
Entries	2236
Mean	1.537e+09
Std Dev	32

Time

Comparison of spill signals in overlap region

- Plot shows spill times for two overlapping utof files (red/blue) with dsftof spill times

Path forward

- Alex K. looking into this now

- For now, we can/should assume a nice fix will be given to us, rather than us fixing it ourselves

- Proceed with development as best we can without folding in the overlap complication

- RHS plot shows size of overlap as a function of days running

  - Period roughly 04/09 to 07/09, indicated by red line, seems a sensible place to focus software development for now

Bad Δ t vs time