L1A vs electron trigger as recorded by the crate in the LHRS when I demand only electron TRIGGER

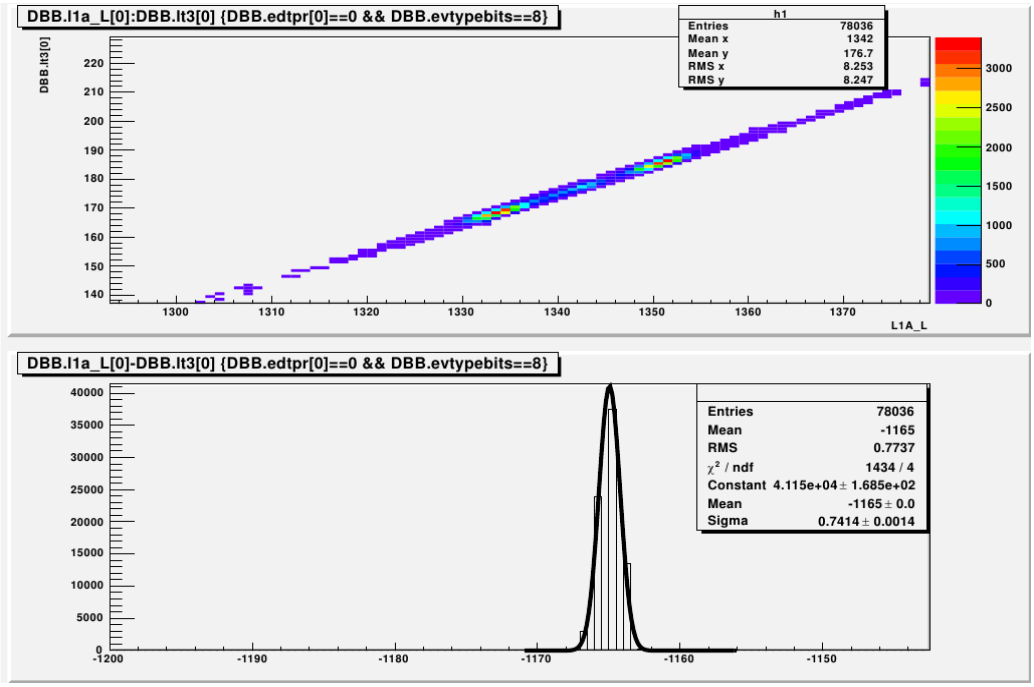

fig1

L1A vs electron trigger as recorded In the weldment when I demand only electron TRIGGER

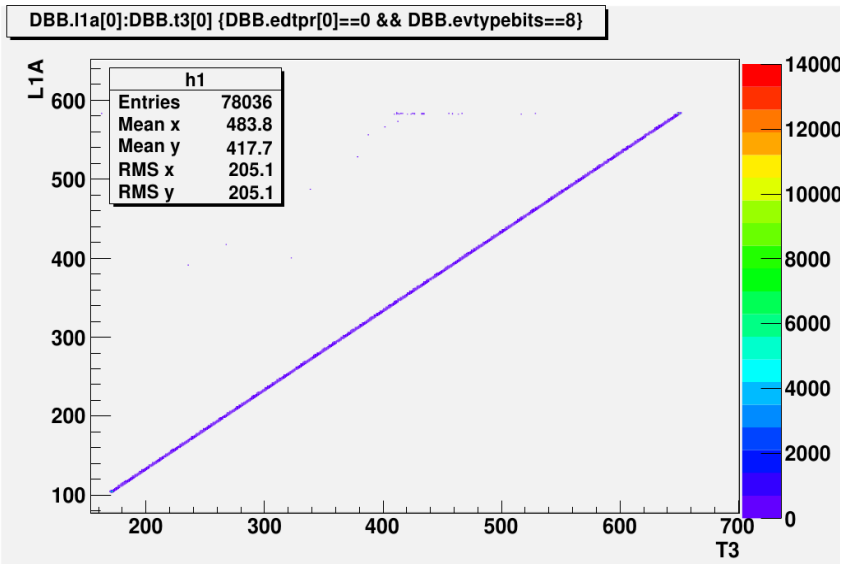

fig 2

The difference between the two plots is the stop signal. The stop signal in the first crate is retimed L1A from HRS (T3) and the second plot is retimed from BB (T6).

Recorded time of the T3. The stop in this case, should be the retimed signal (T3 retimed from itself). So, in this case I expect self timing picture.

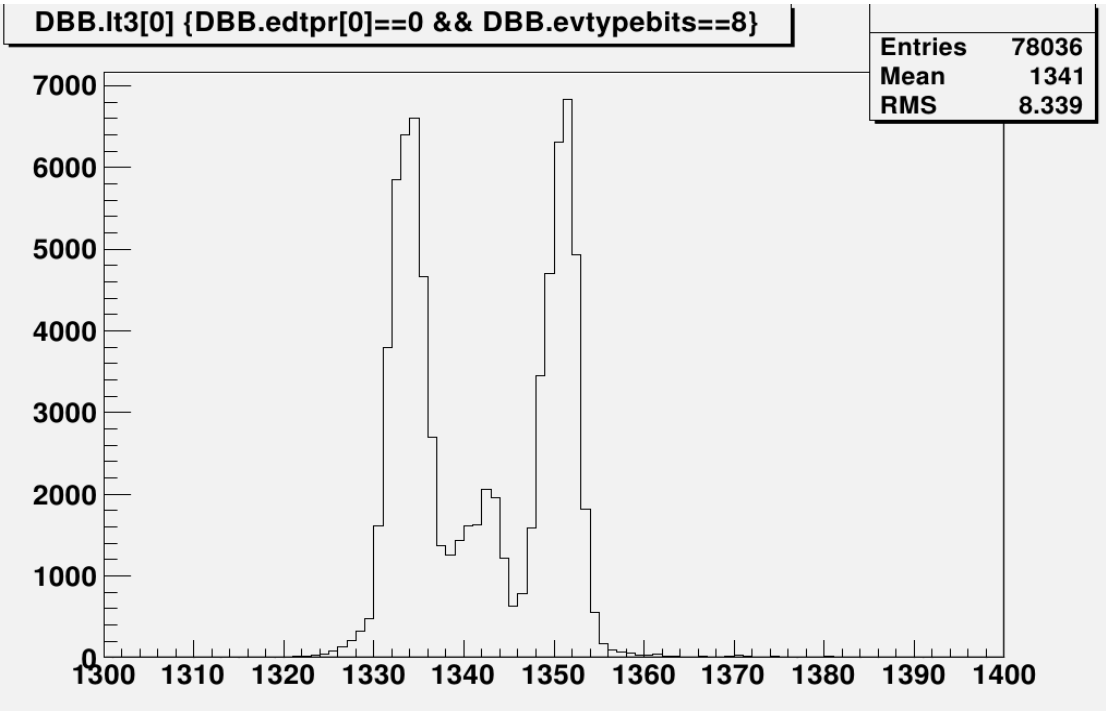

Fig 3

T3 as recorded in the weldment.
One of the peaks is when the retiming succeeded and the second when didn't.
Q: What is the cause of it in the case when we have only T3 trigger?

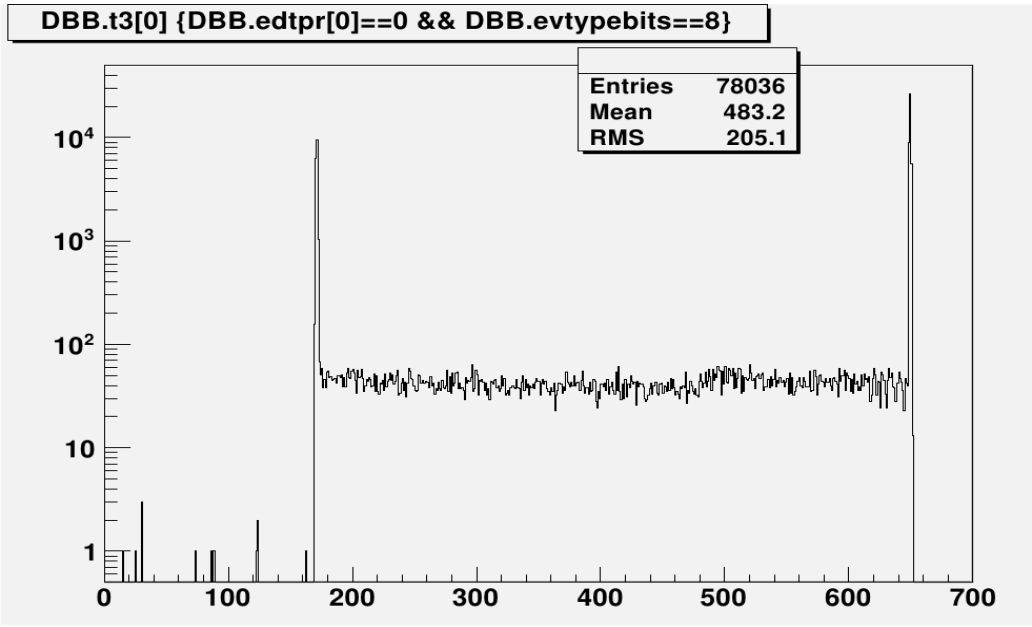

Fig 4

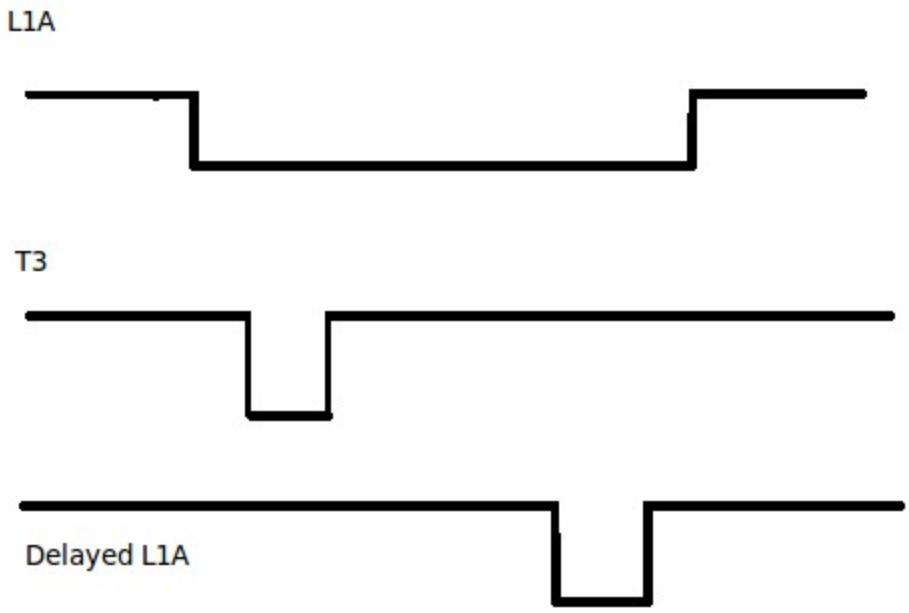

fig 5

Retiming 1:

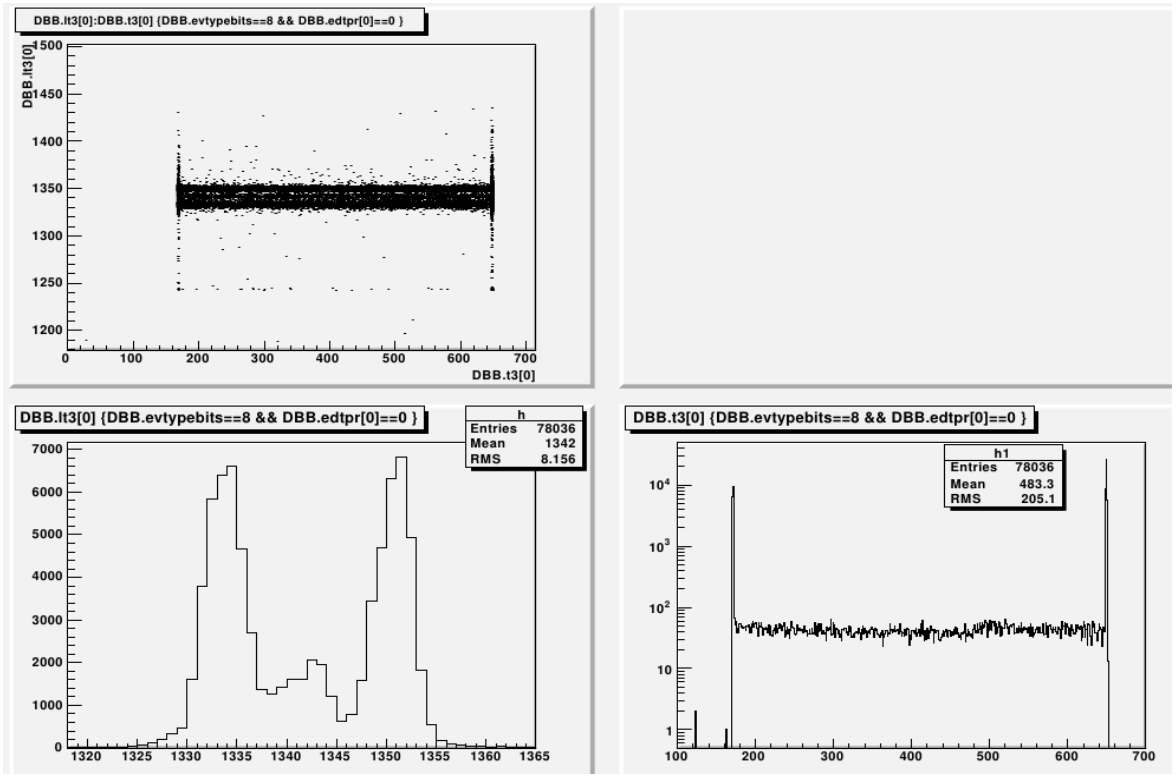

fig 6

Retiming 2: Found "new" variables DBB.s1or and DBB.s2or ...

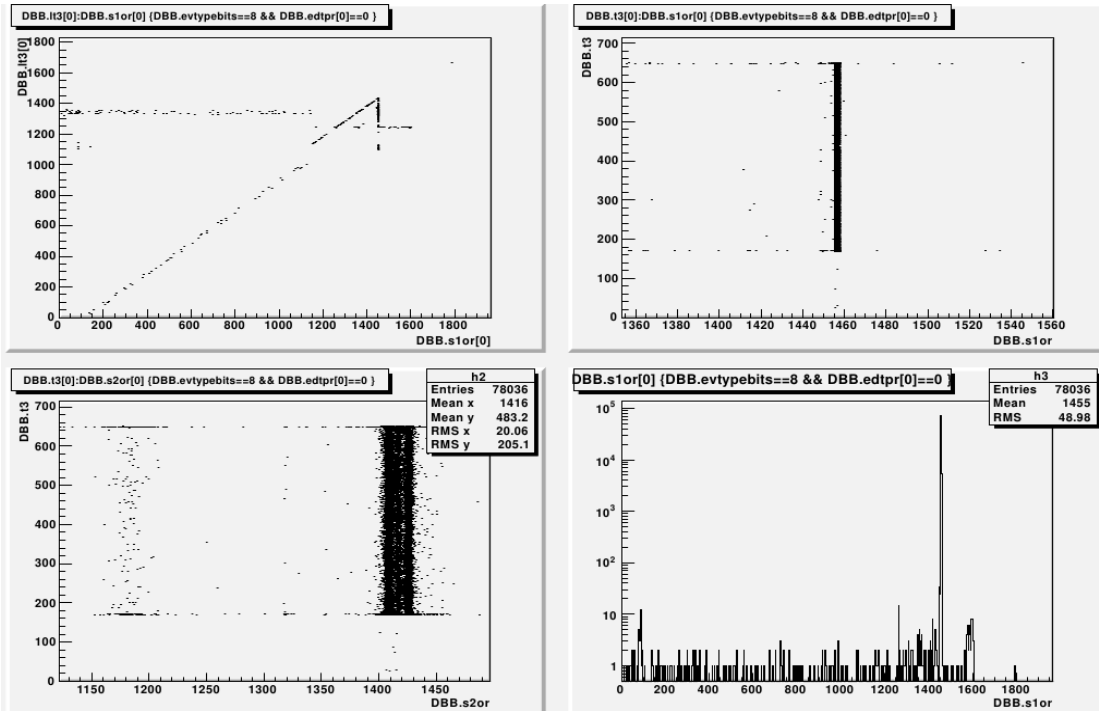

fig 7

Unexplained feature in plane 1 paddle 1:

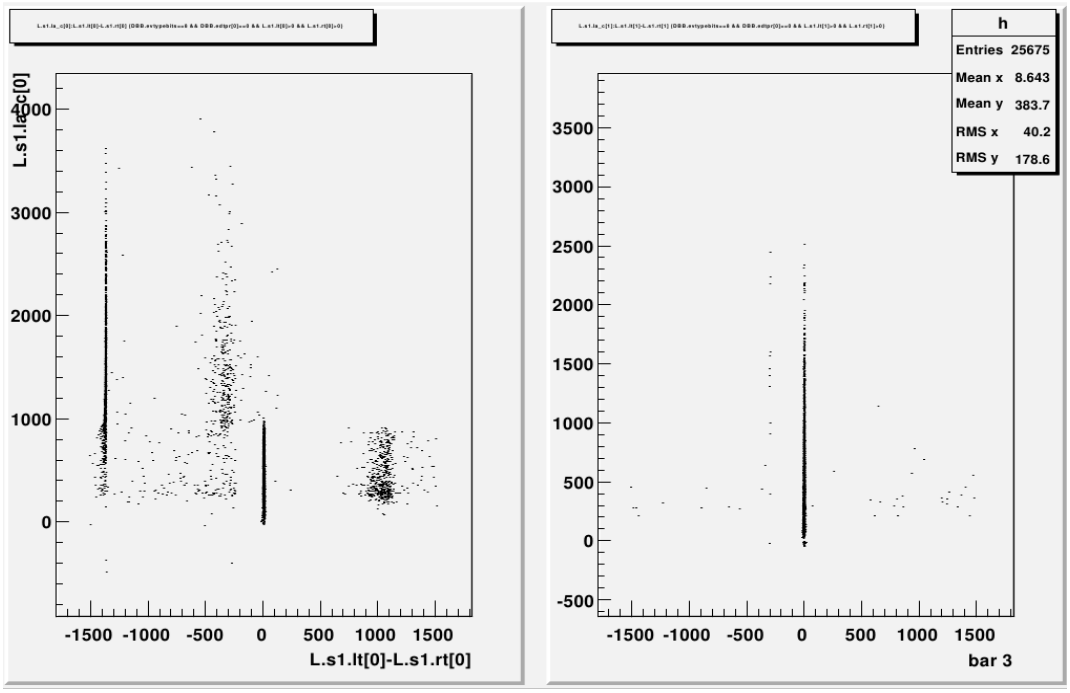

fig8

Double peak in the difference between TOF of two paddles. (should have same stop signal)

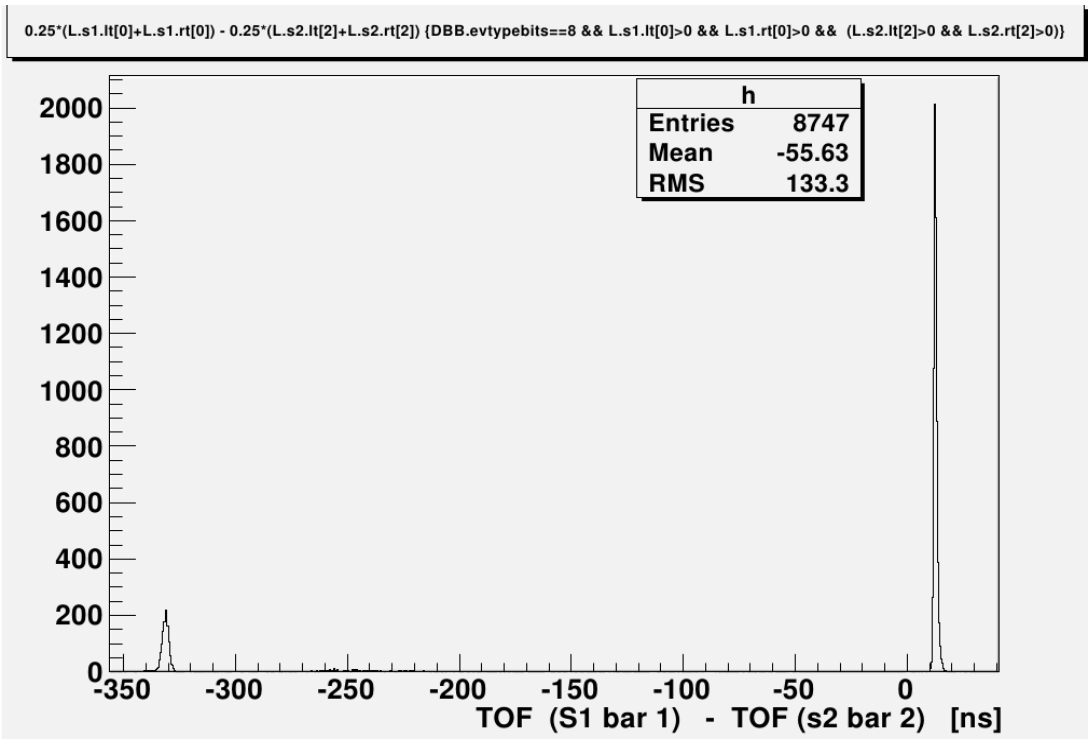

fig 9