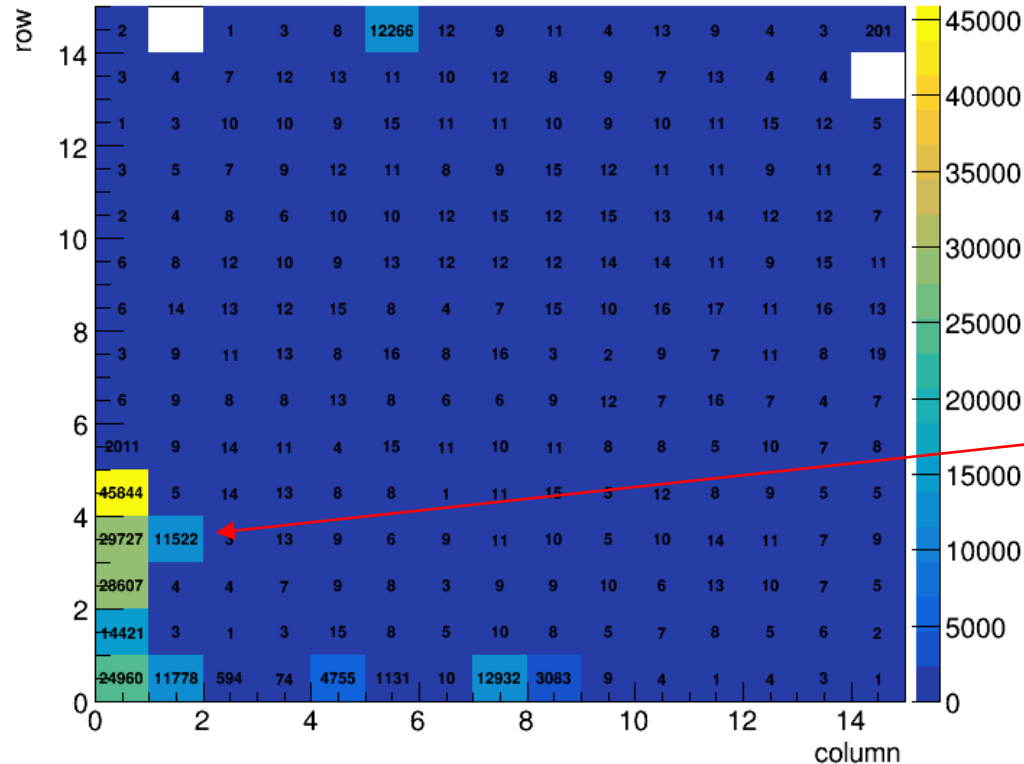


S35 ($2.5 \cdot 10^{15} \text{ n}_{\text{eq}}/\text{cm}^2$)

Nosie scan S35 (550 V)

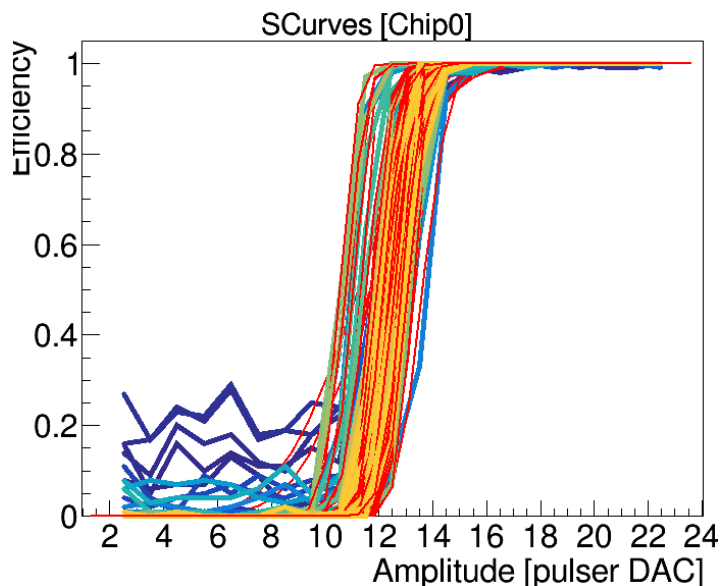


This hybrid had broken column in previous test runs.

Removing a small piece of bond wire that was shorting to neighbouring pad brought back the column.

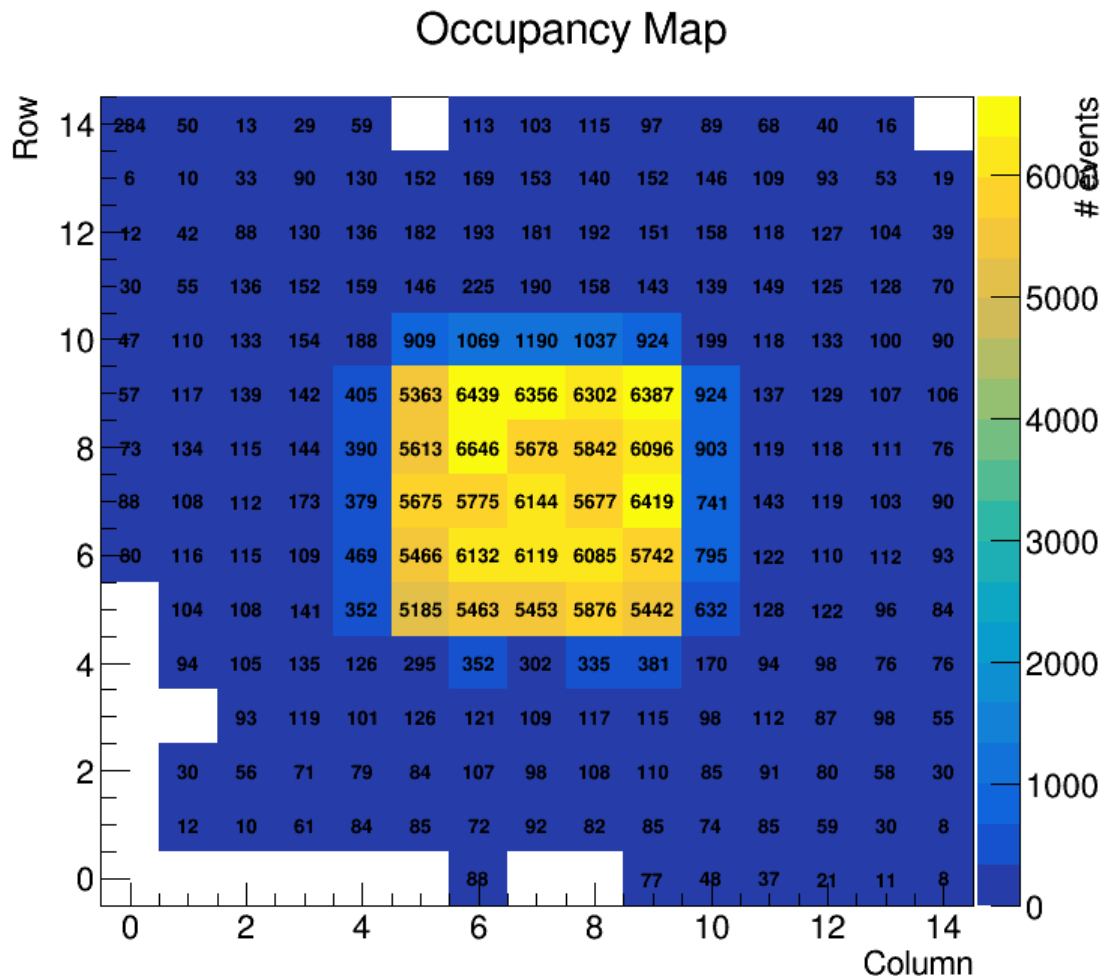
This is the first observed hybrid that has a noisy pixel on inner column (not on the edge)!

S35 timing resolution measurements



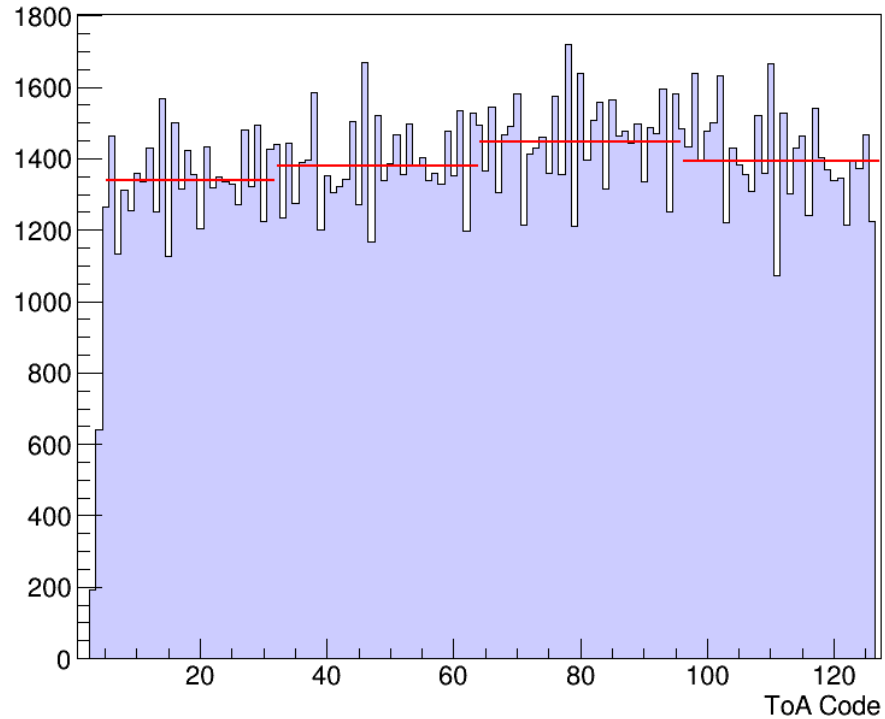
After masking noisy pixels a good amount of data was collected.

Noisy pixels disappear at 410 V.

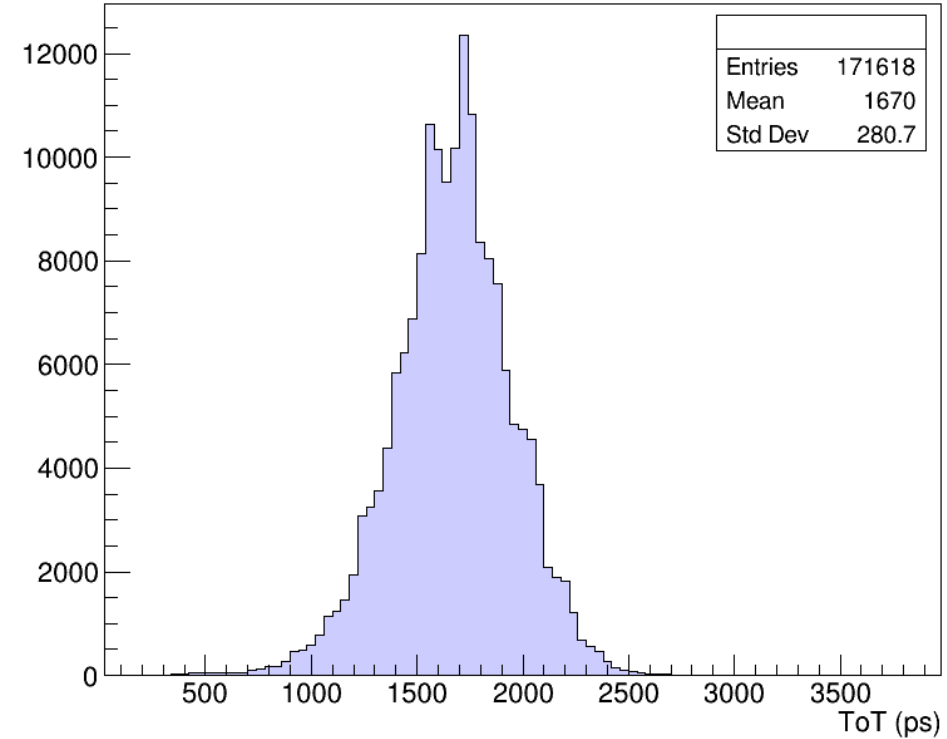


Hit distributions

ToA distribution (all pixels)

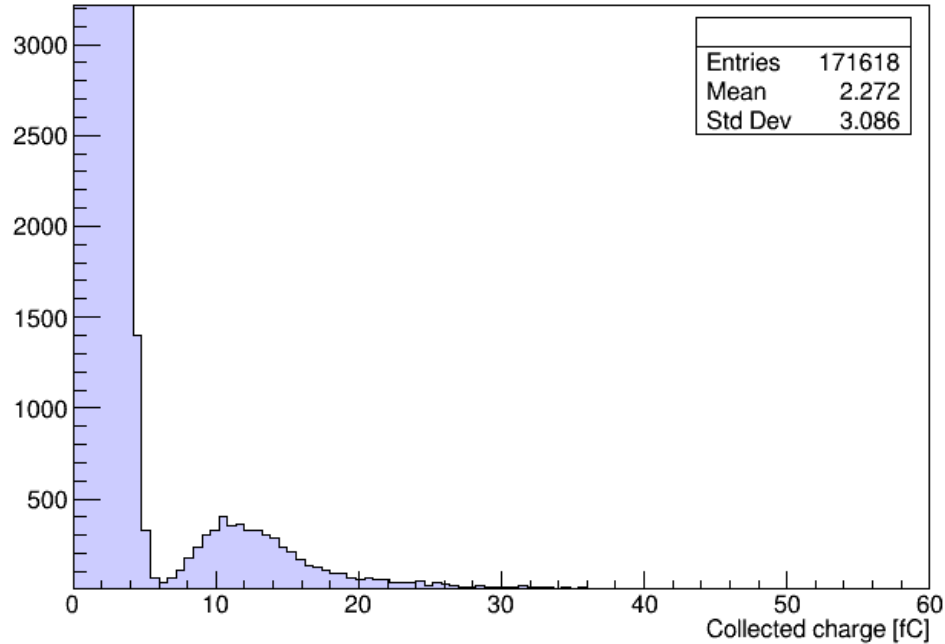


ToT distribution (all pixels)

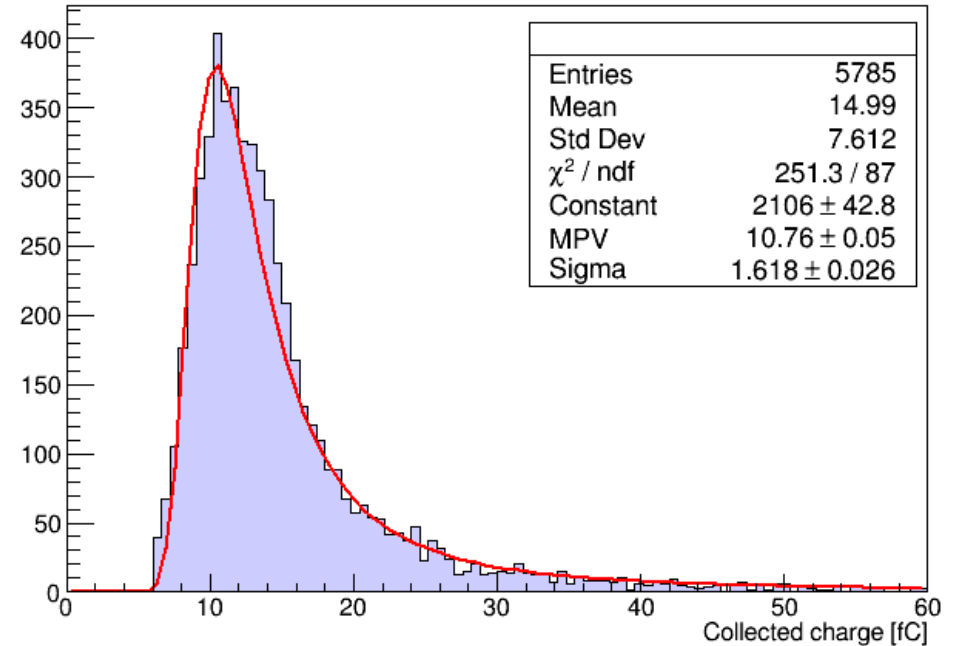


S35 collected charge distribution (550 V)

Probe PA collected charge



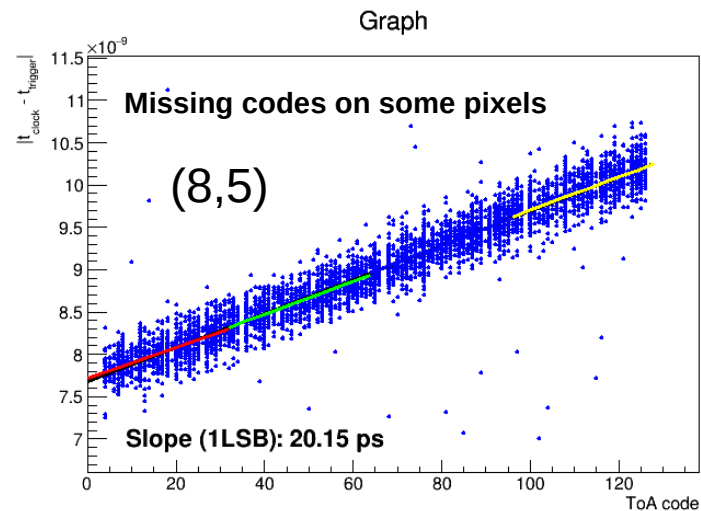
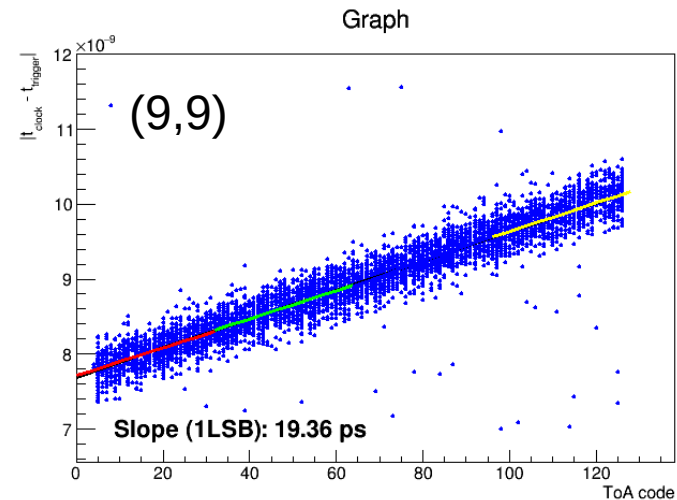
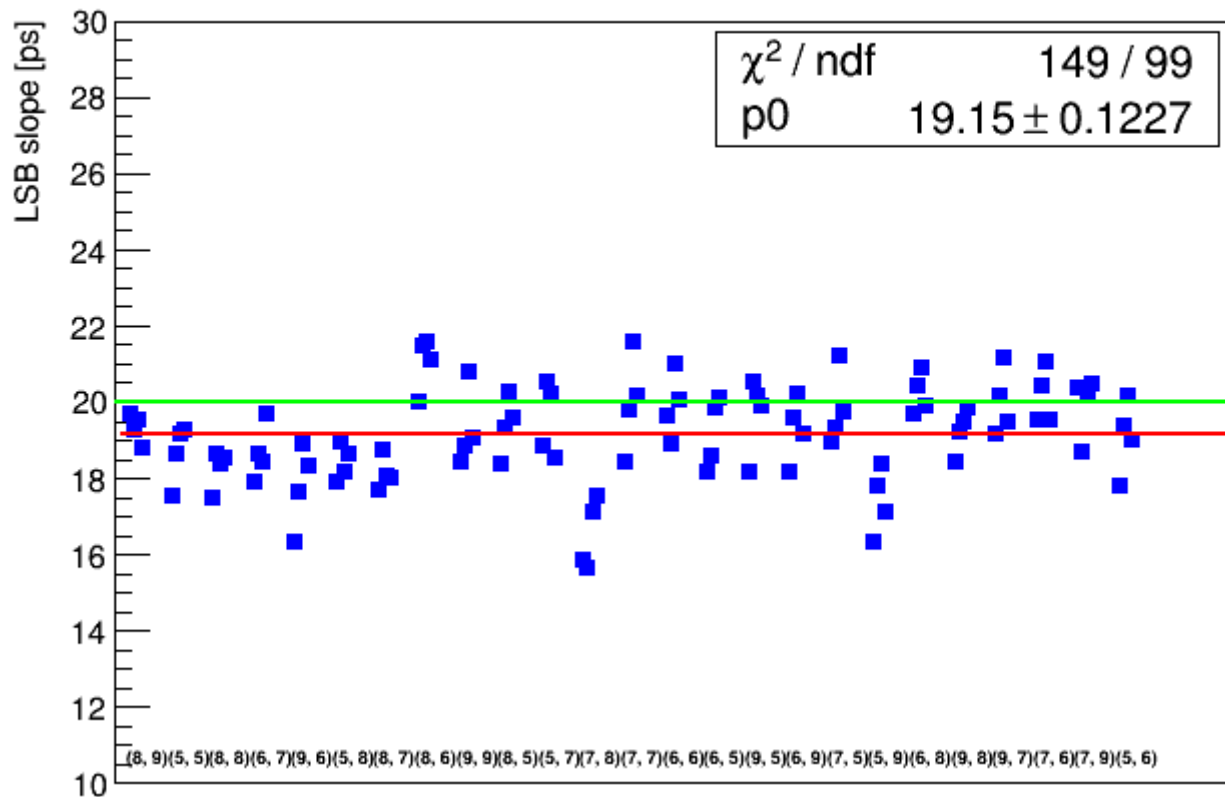
Probe PA collected charge (after cut)



MPV is slightly lower compared to previous hybrid.
Different amplifier transimpedance?

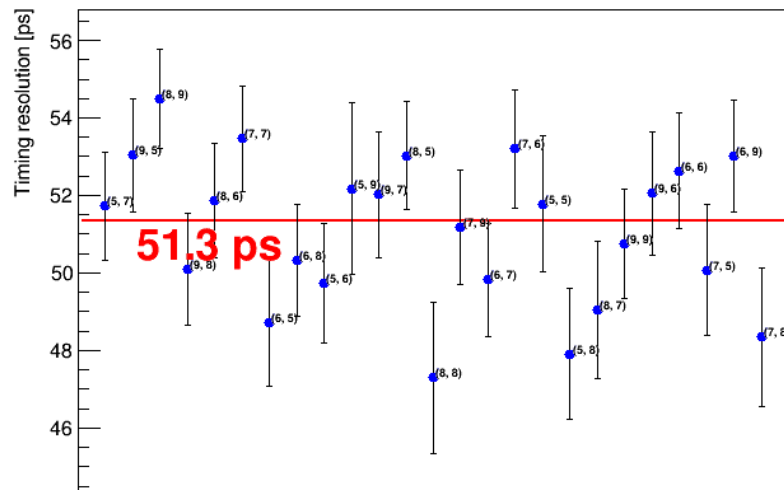
S35 ToA linearity (550 V)

4LSB summary

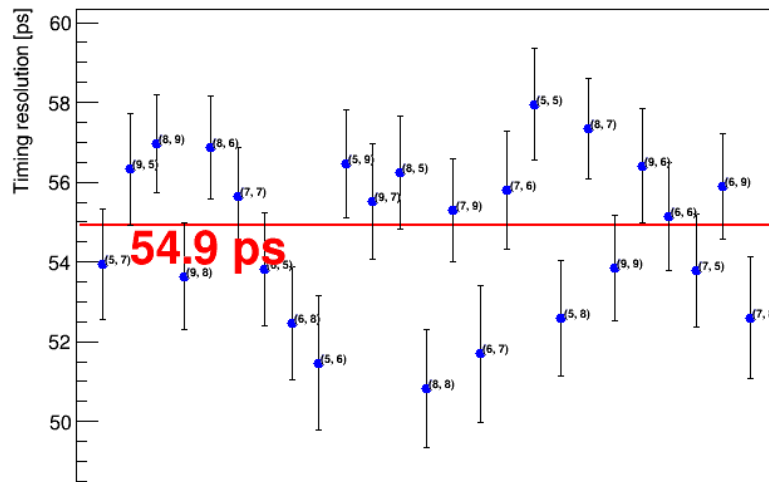


S35 timing resolution (550 V)

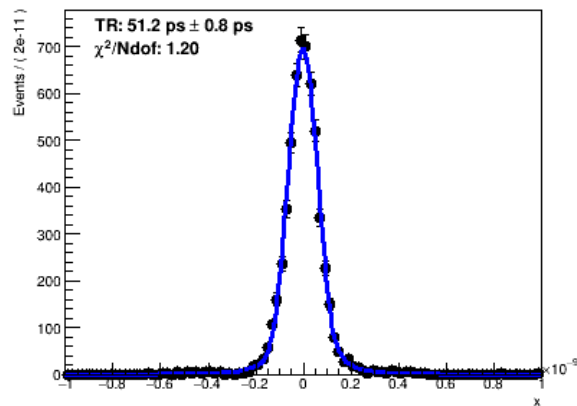
DscbFitter_4LSB_tw



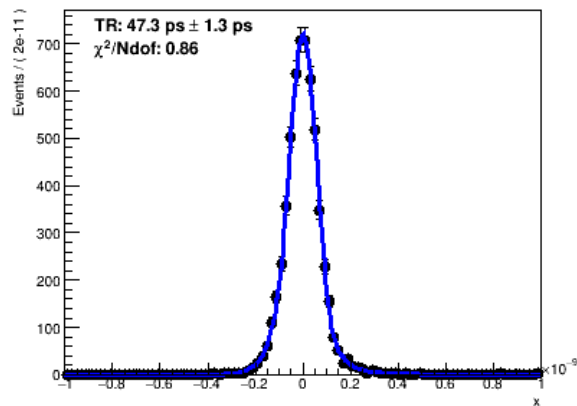
DscbFitter_1LSB_tw



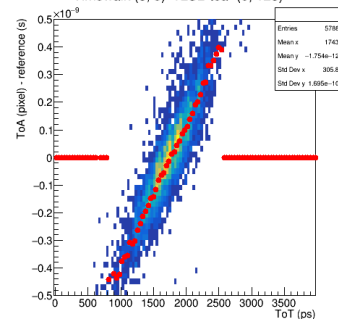
Pixel_8_8_4LSB_stacked



Pixel_8_8_4LSB_stacked_TW



Timewalk (8, 8) 1LSB toa=(0, 128)



Timewalk (8, 8) (corrected) 1LSB toa=(0, 128)

