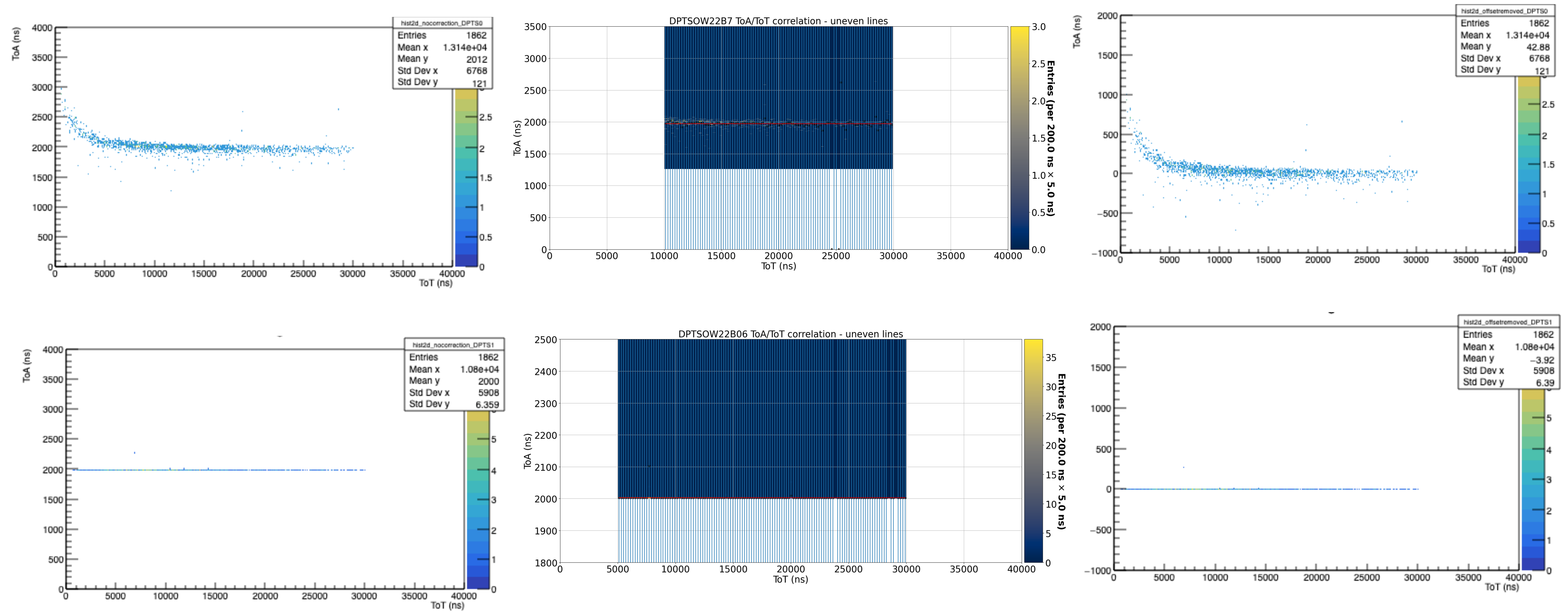


DPTS time resolution: ToT vs. ToA from Beam test

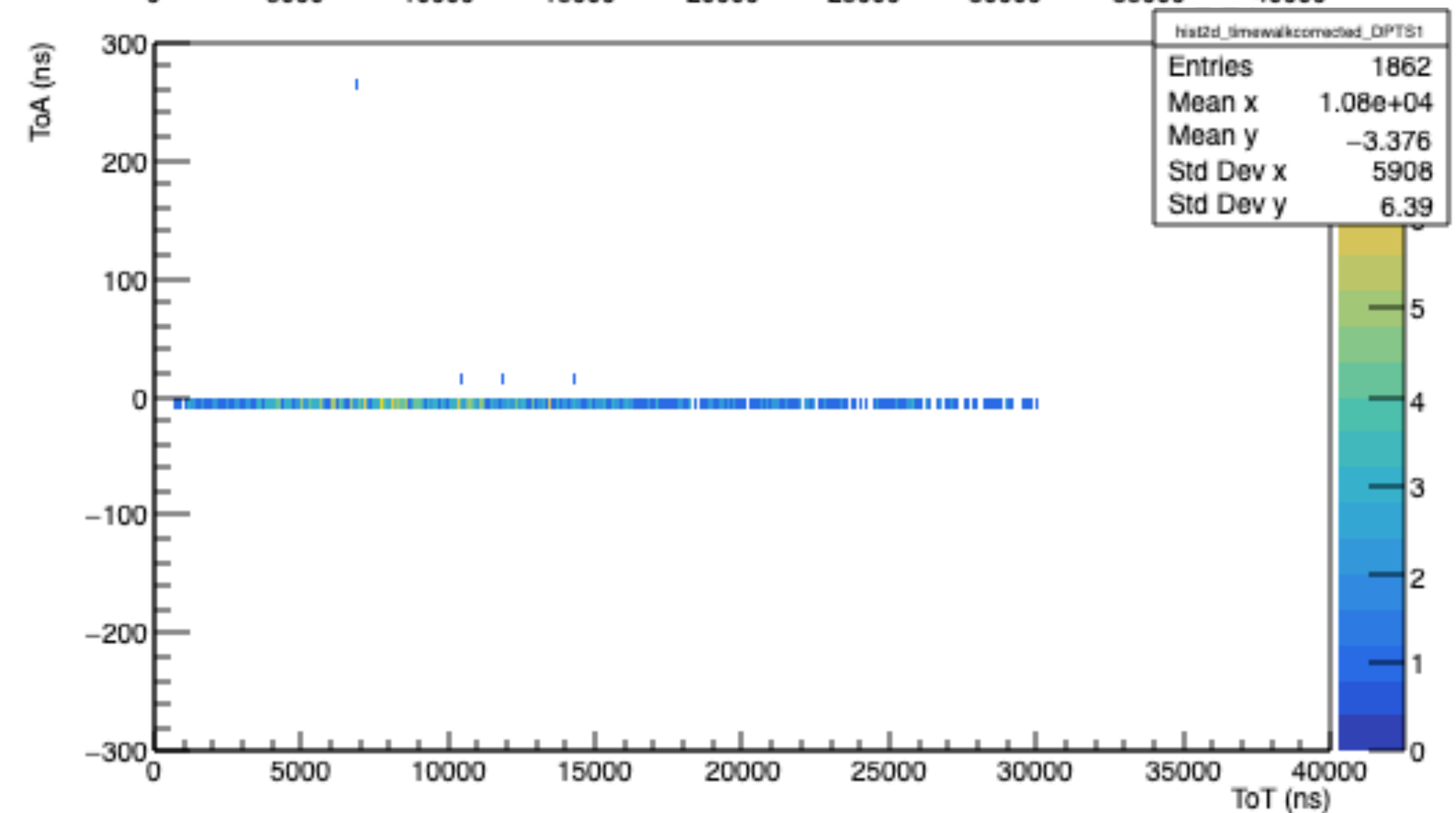
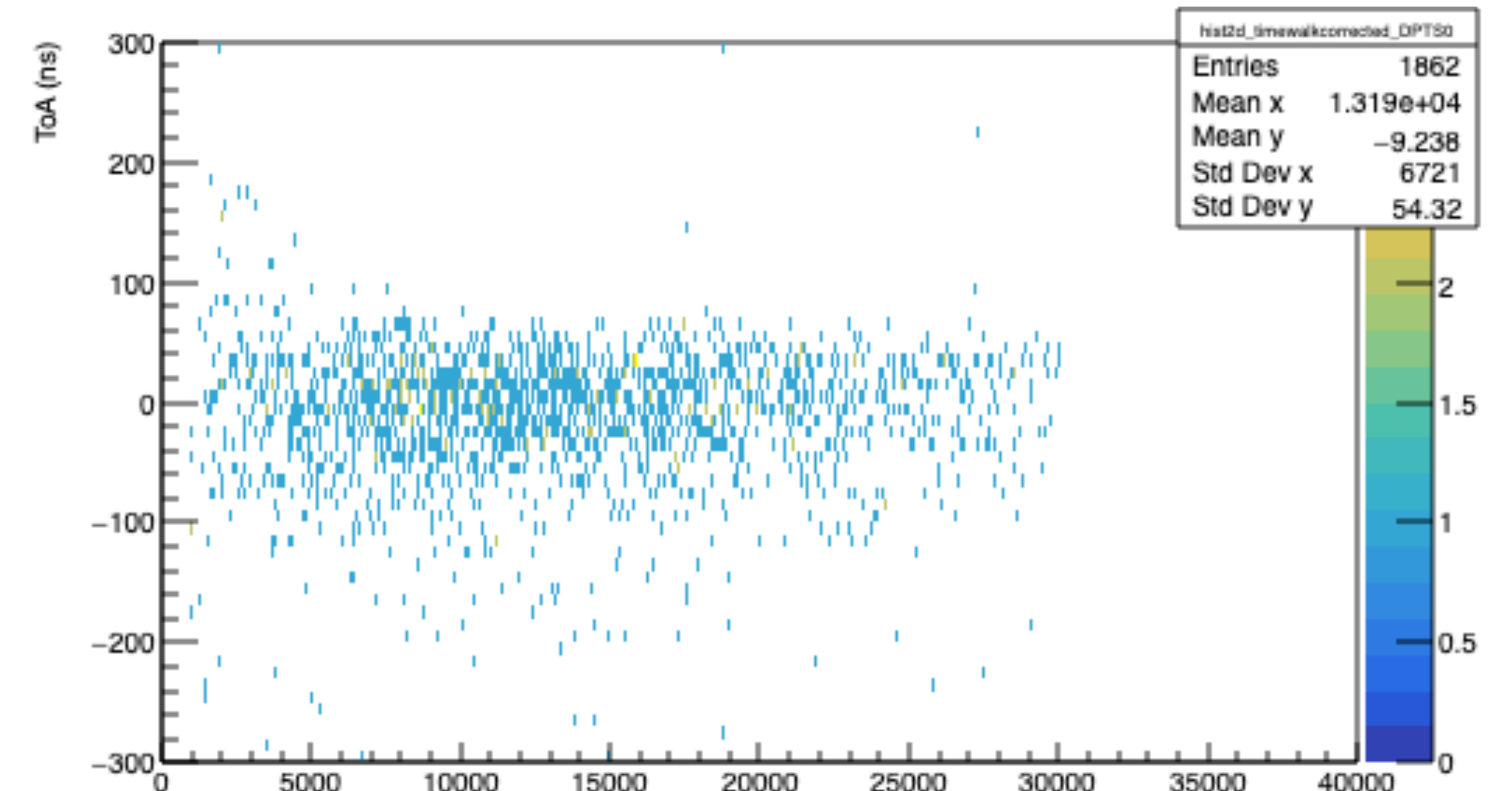
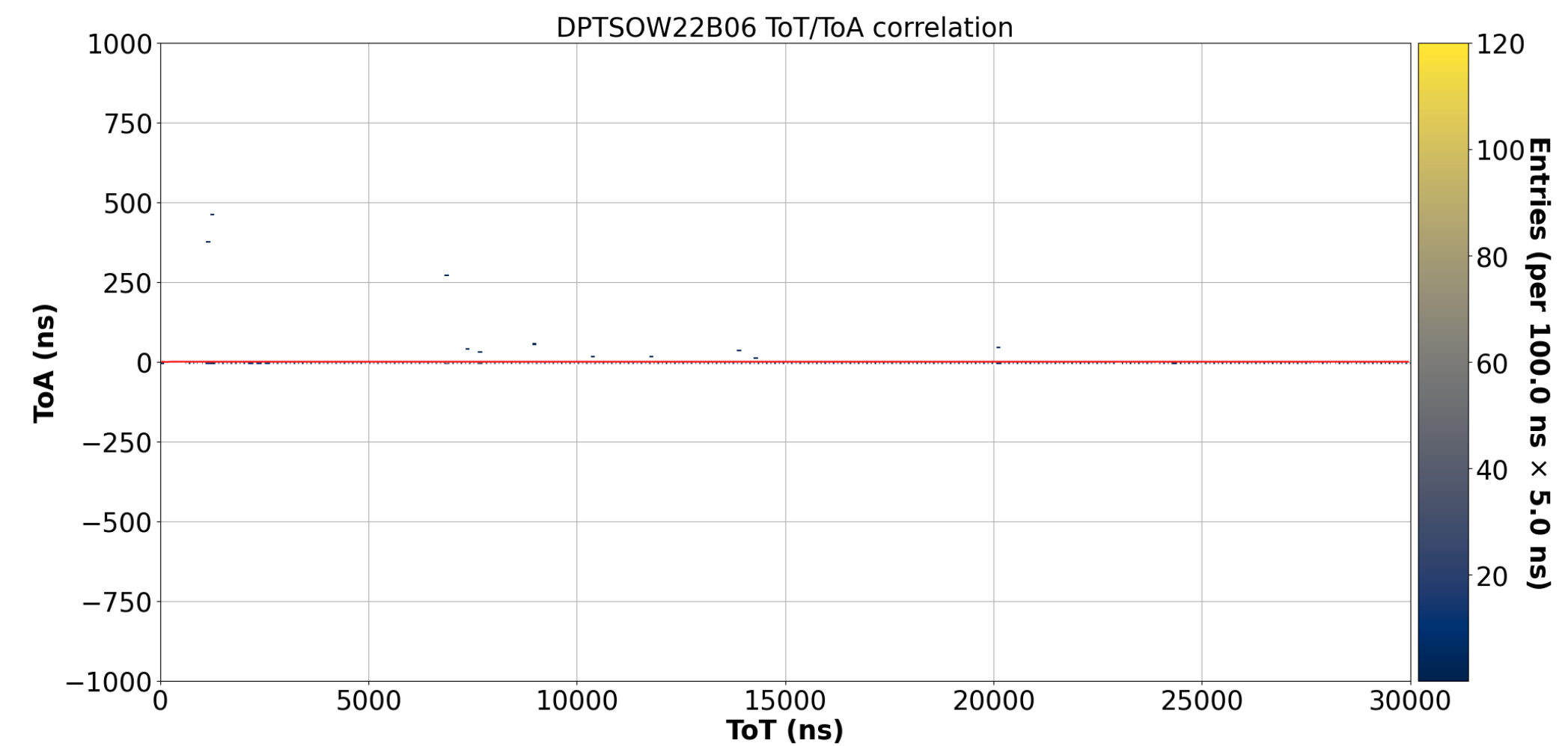
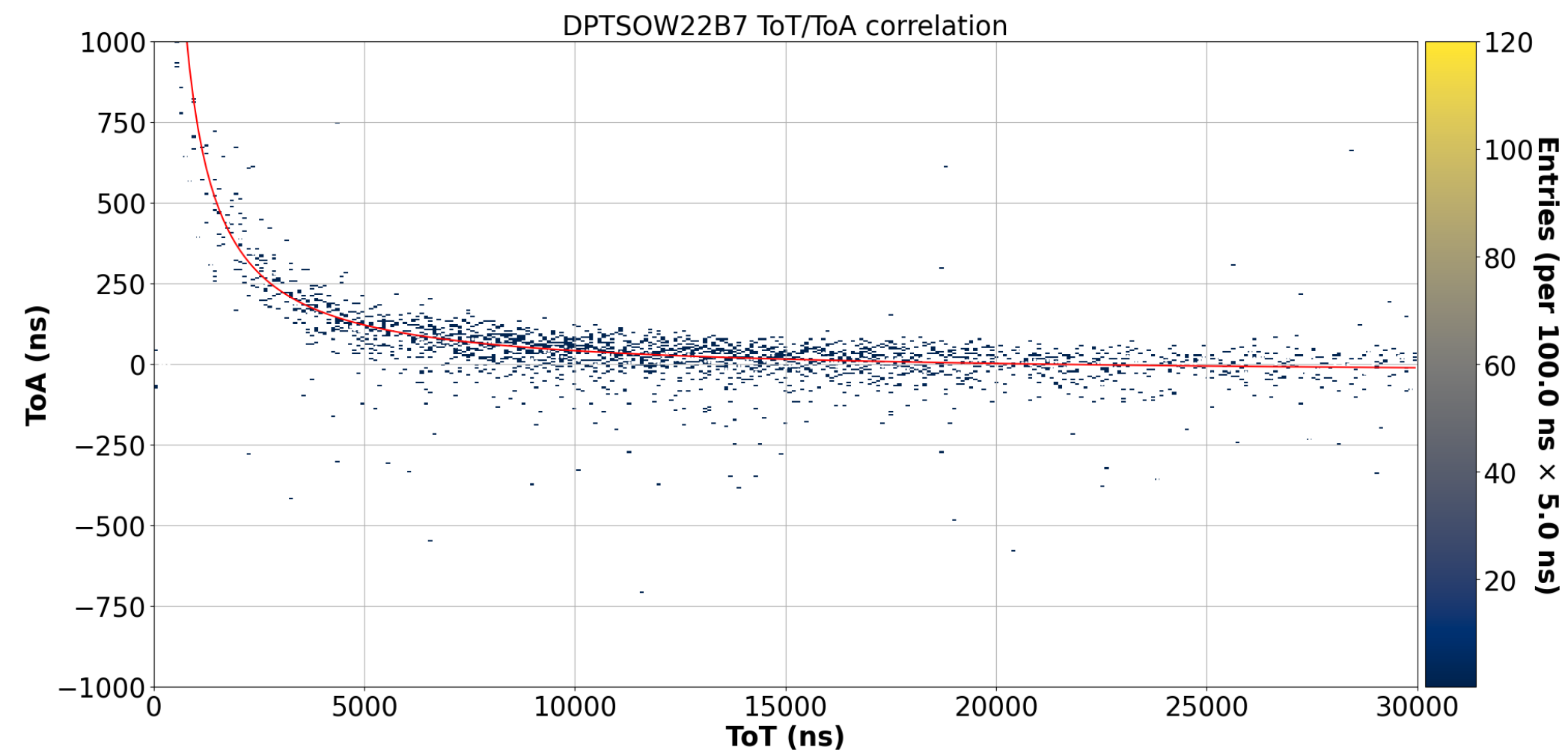
Minjung Kim
Berkeley EIC weekly meeting

22. Jan. 2024

Offset Correction

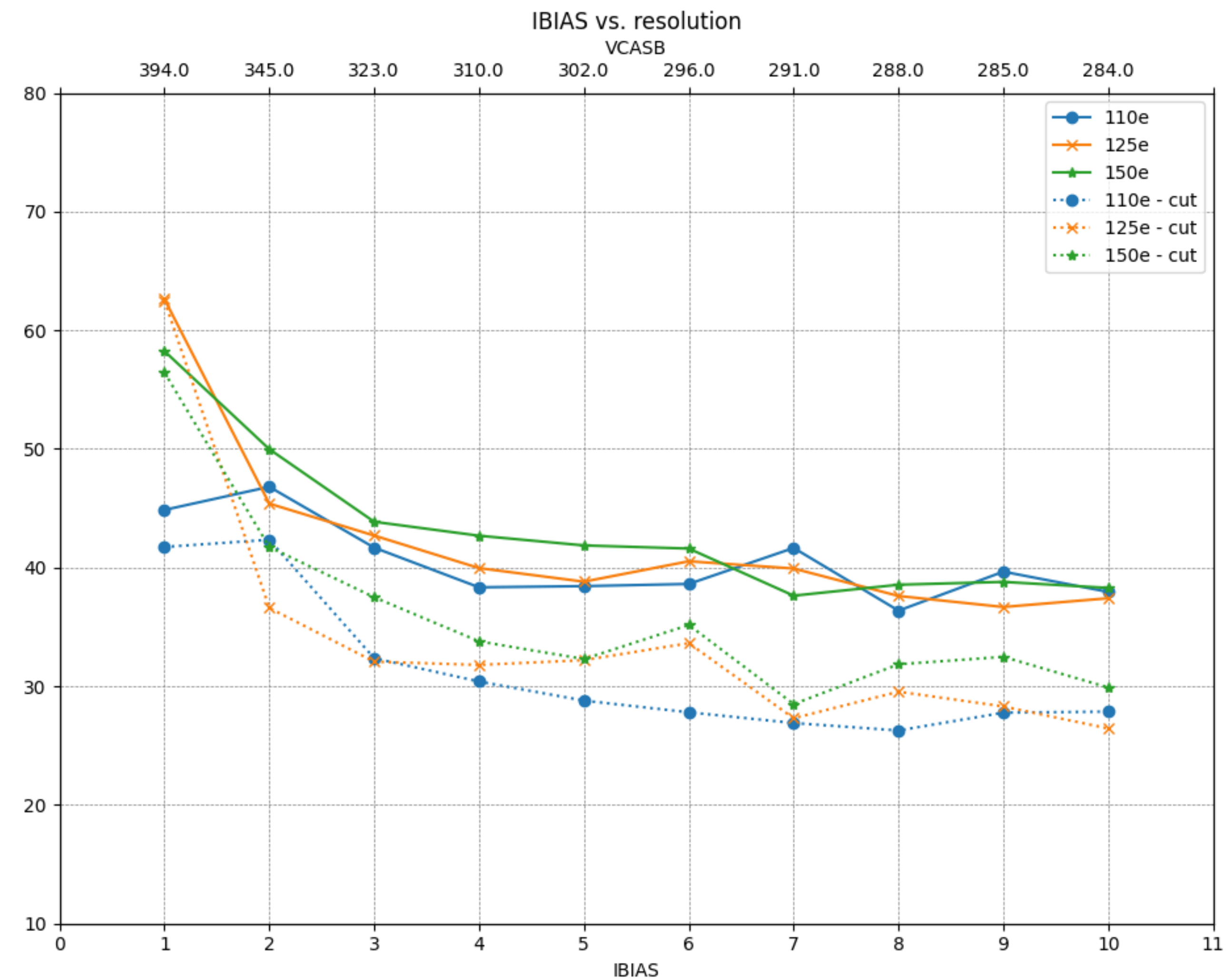
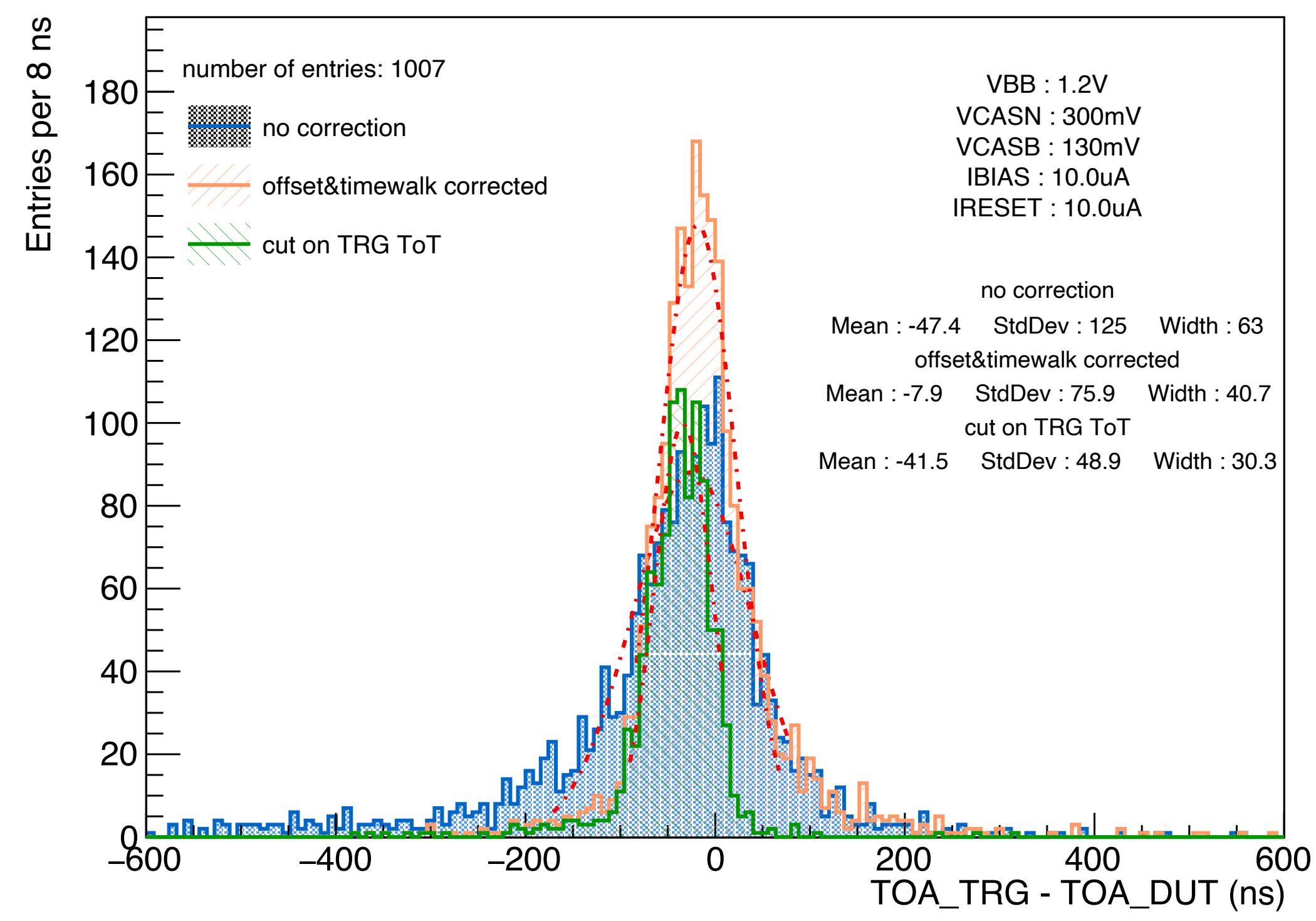


Timewalk Correction

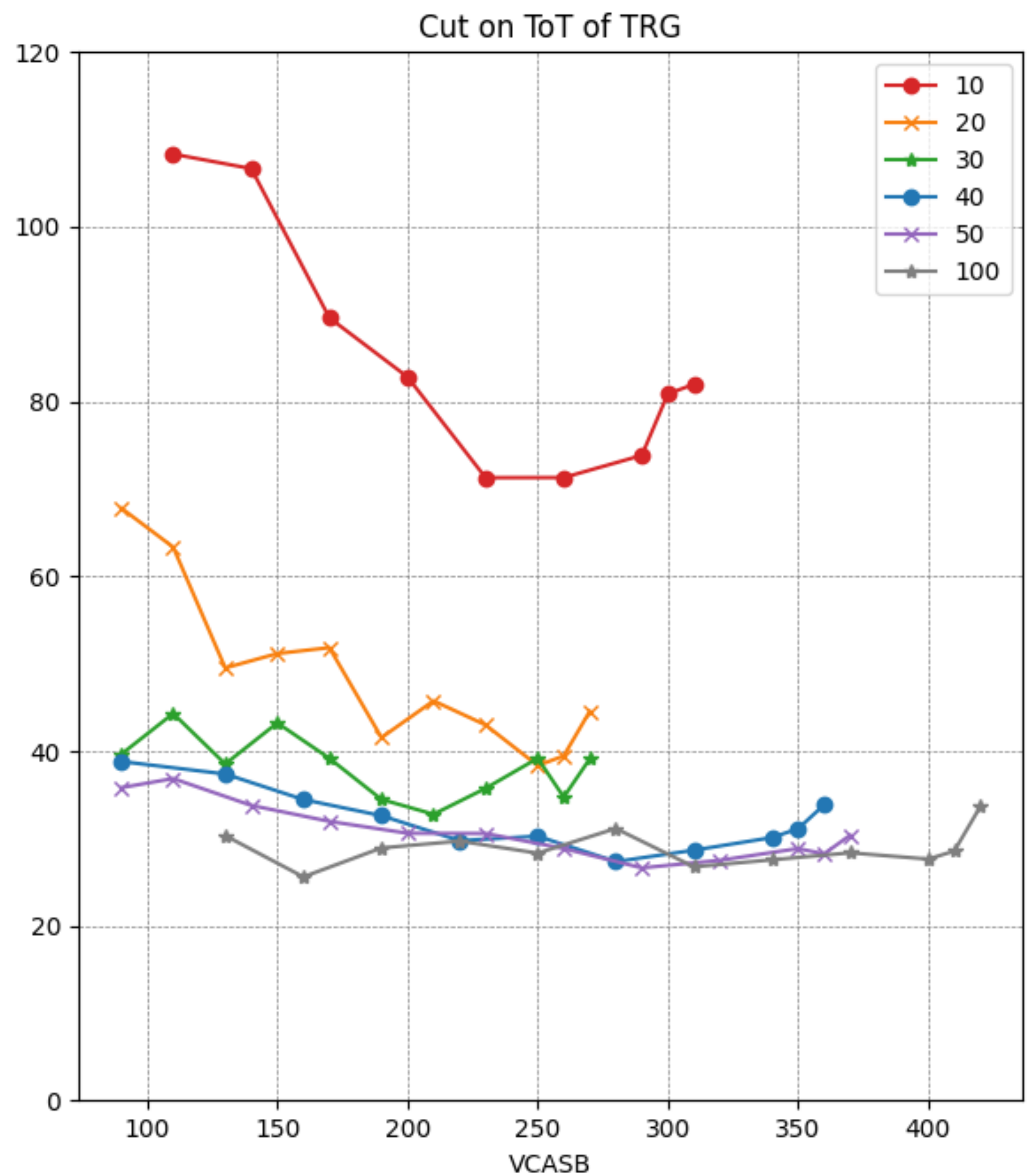
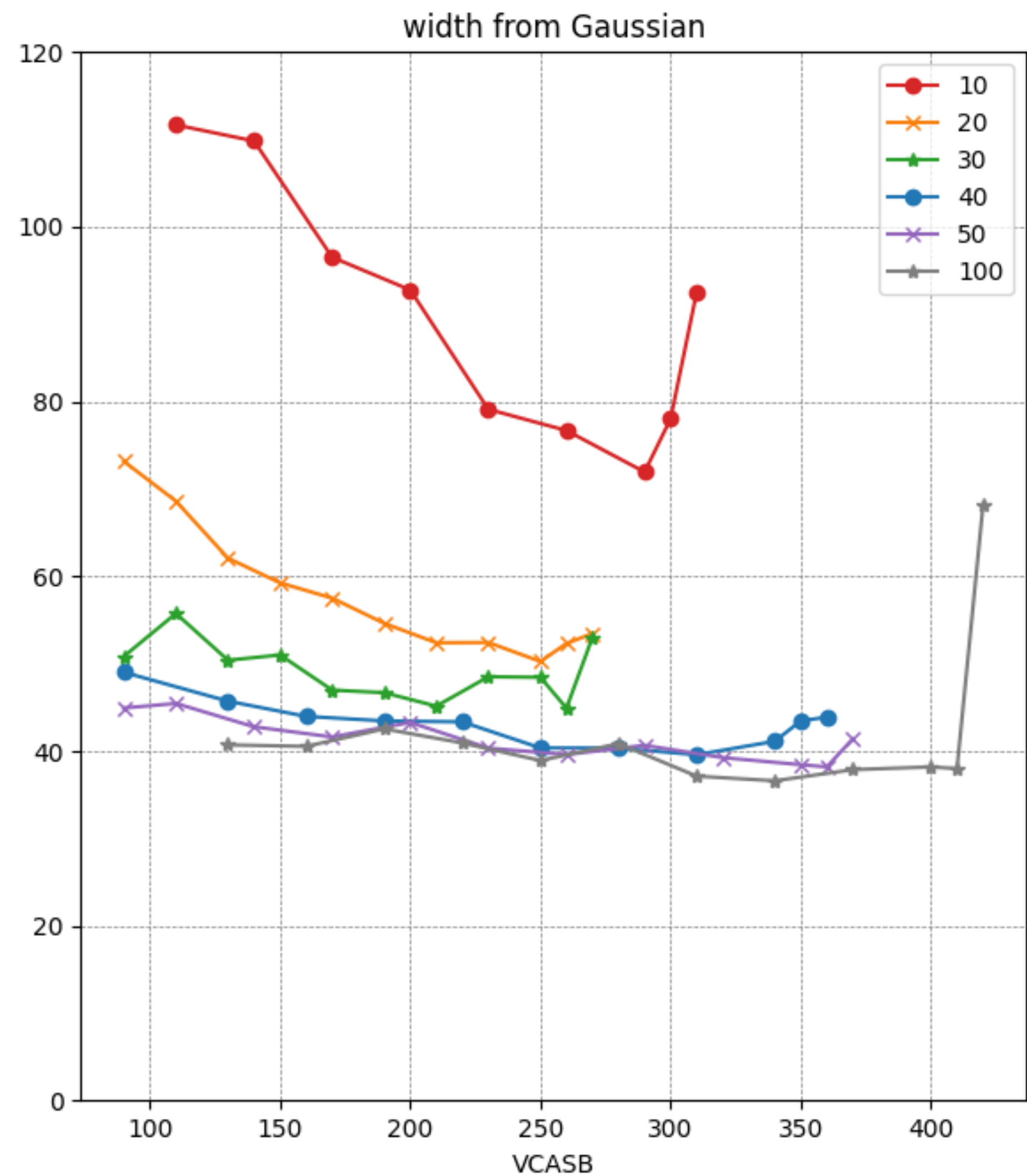


DPTSOW22B7 - runs with “tuned threshold”

- Y-axis shows the width from the Gaussian fit
- Data with dotted lines represent the fit after requiring ToT of TRG > 10000 ns to reduce timewalk effect of TRG layer



DPTSOW22B7 - runs with $V_{bb} = -1.2V$ with varying I_{BIAS}



To Do

- ToT vs. ToA scan done for B6 and B7 during beam test:
 - Cross-check the results
 - Disentangle B6 resolution from final result?
- Plot should be updated
 - Uncertainty; from fit (statistical error can be automatically propagated)
 - Units and style
 -