

# **Progress Report**

Pranav Bangarbale - 2/11/2022

# Last Week

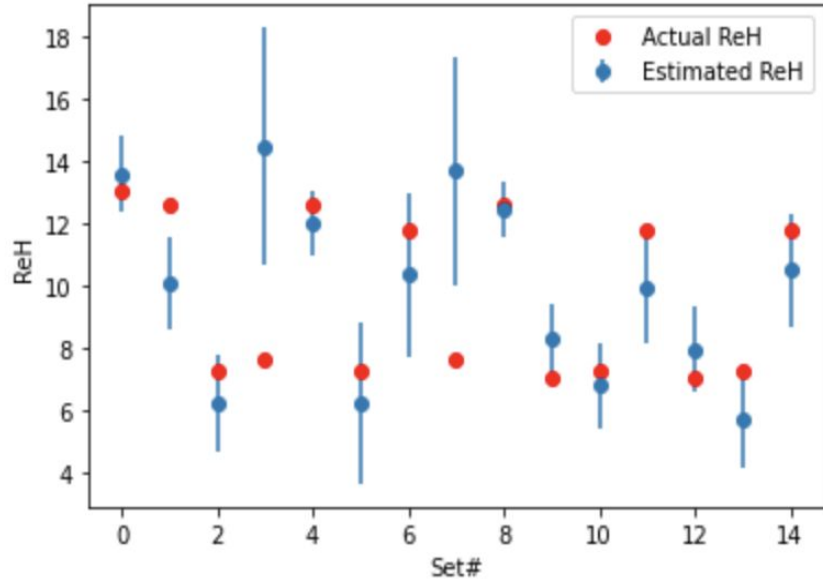
- Ran one Method 2 using reduced Phi angles 70-300 - e.g. excluding small and large phi
- Results were significantly worse than the original method 2 fit

# This Week

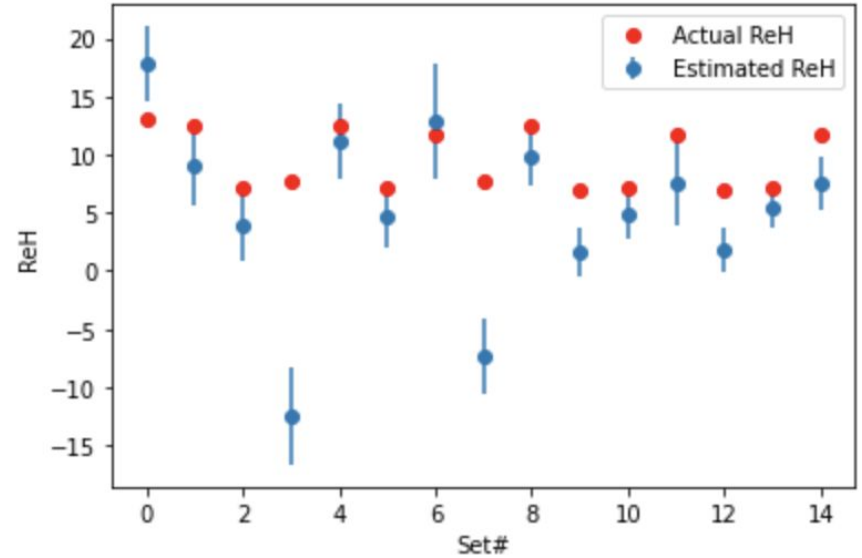
- Ran 10 “trials” of Method 2 (with reduced phi) and averaged results together. Averaged results were not as bad, indicating the one run was an anomaly, but were still worse than original Method 2.
- Ran 10 trials of Method 2 with even-phi - the same number of angles as 70-300 but spread across 0-360 range.
- In other words: When small and large angles are excluded, there are 25 total phi angles that are used. The same plots were generated again using 25 total phi evenly spread among the range 0-360.

# Updated Plots

# ReH: Original Method 2 vs. Modified Angle



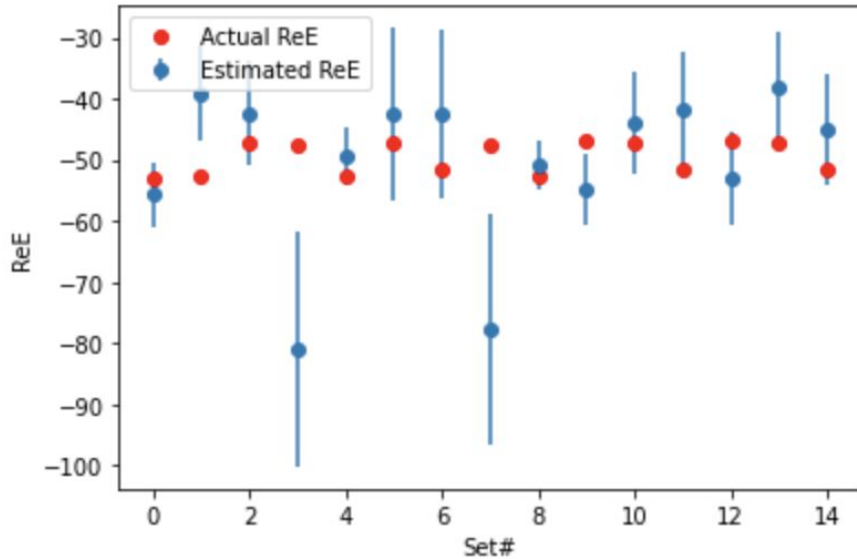
**Original**



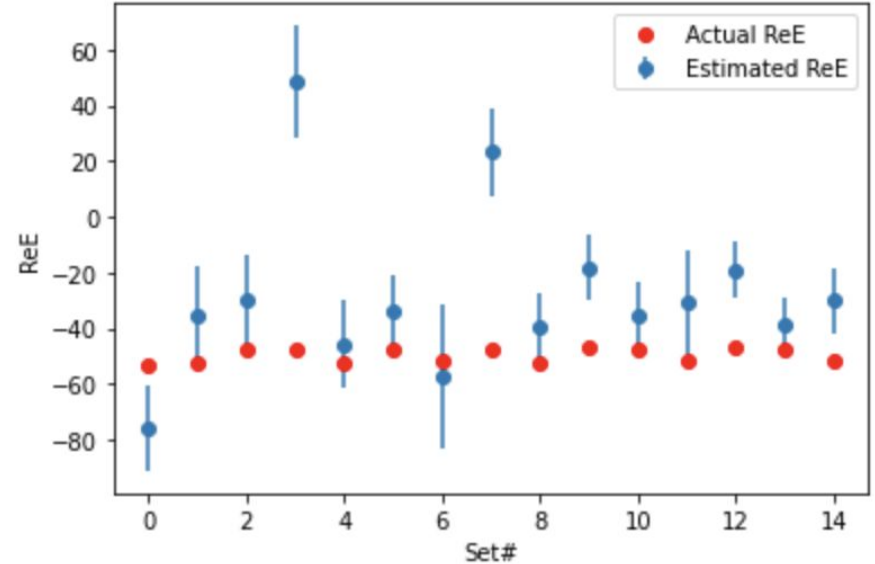
**Modified**

*NOTE: scaling on graphs is different; modified is still significantly worse but it is not as easy to tell*

# ReE: Original Method 2 vs. Modified Angle



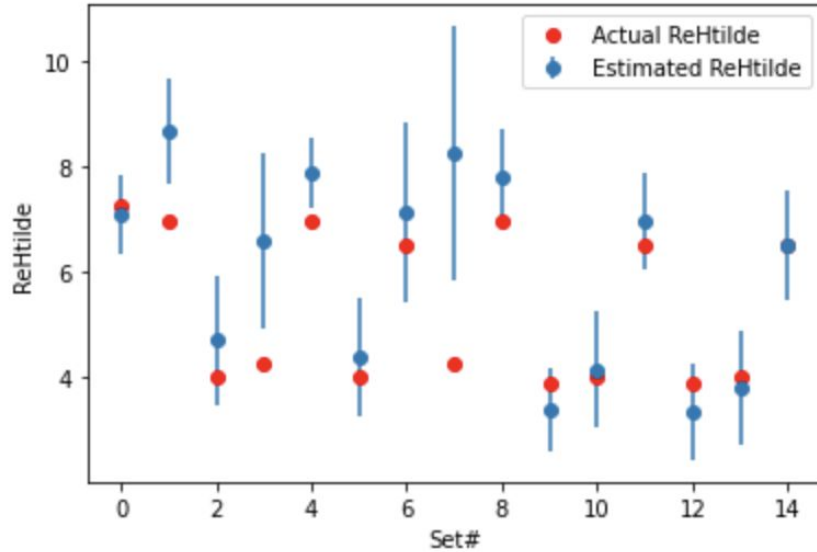
**Original**



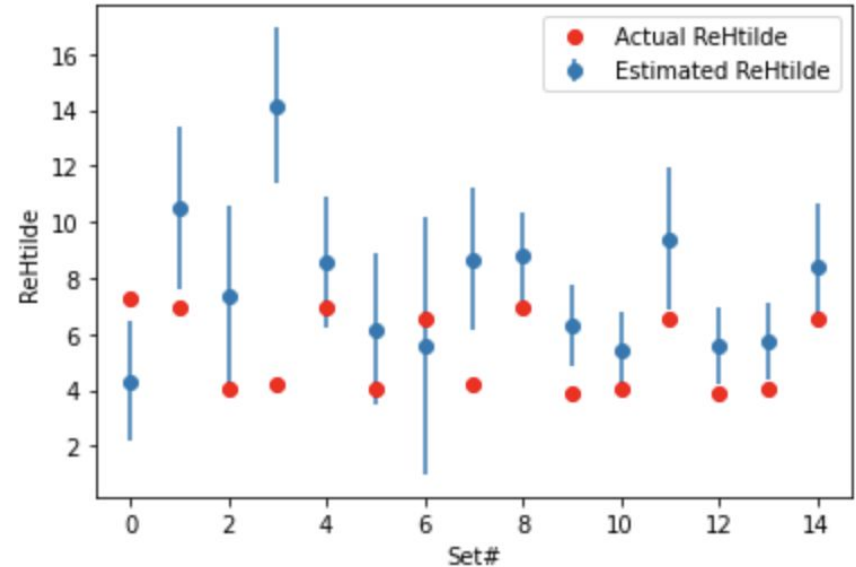
**Modified**

*NOTE: scaling on graphs is different; modified is still significantly worse but it is not as easy to tell*

# ReHtilde: Original Method 2 vs. Modified Angle



**Original**



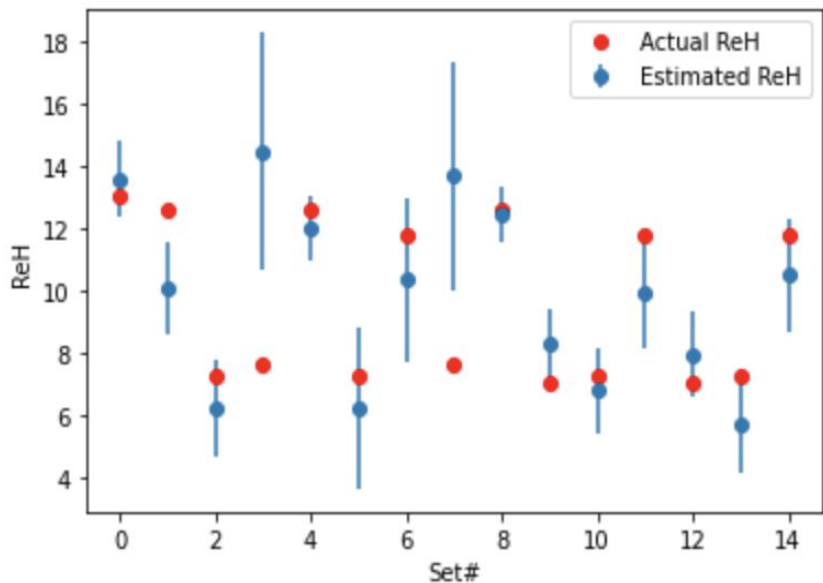
**Modified**

*NOTE: scaling on graphs is different; modified is still significantly worse but it is not as easy to tell*

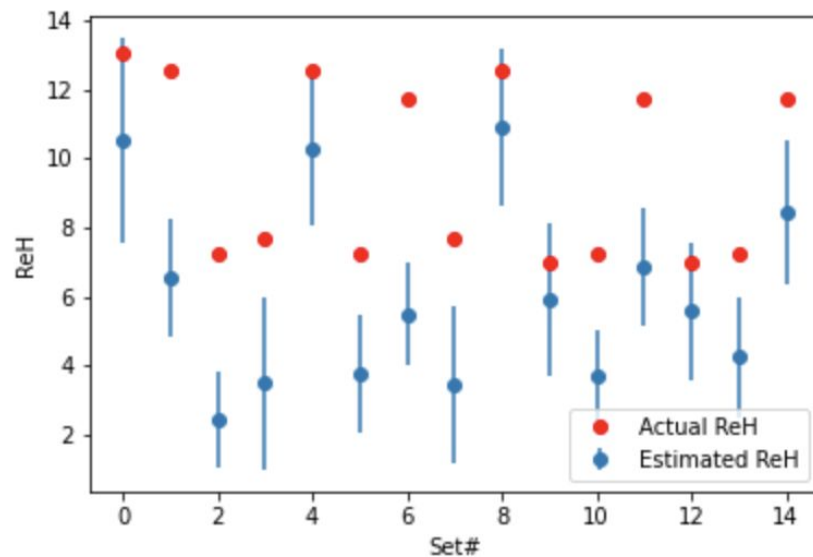
# Even-Phi Plots



## ReH: Original Method 2 vs. Even Phi



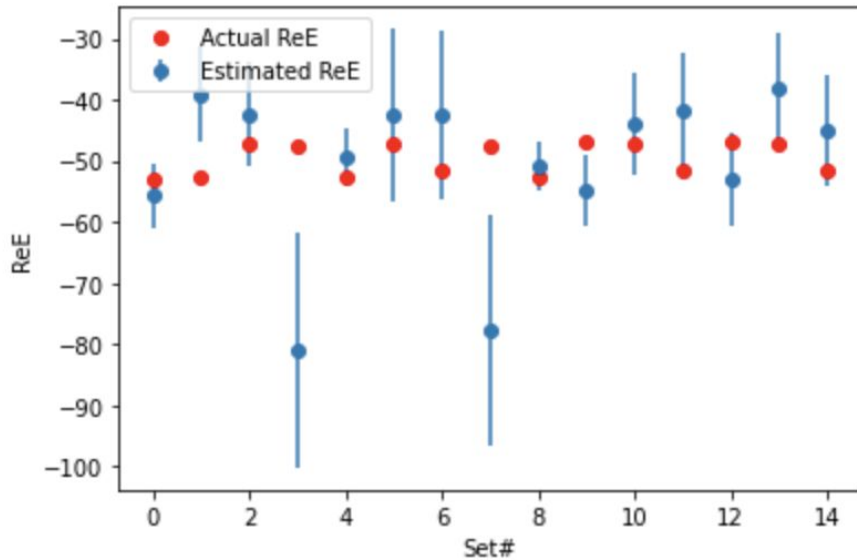
Original



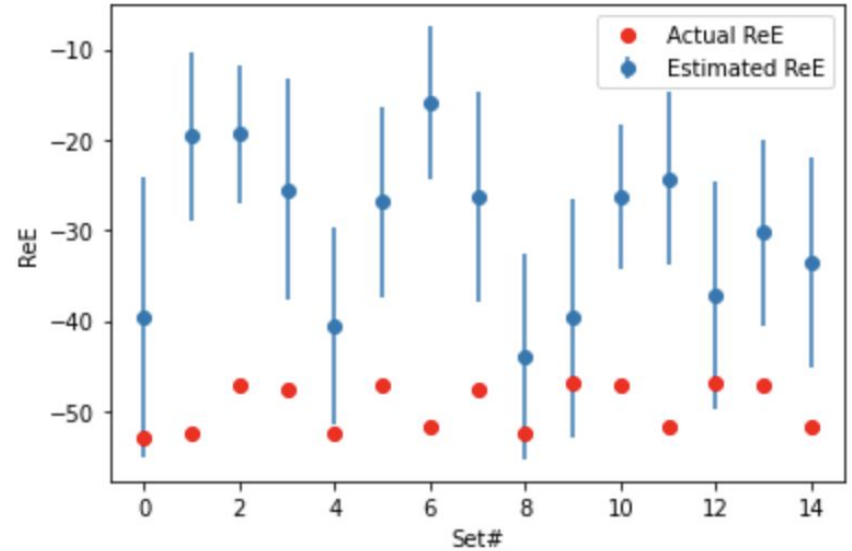
Modified

*NOTE: scaling on graphs is different; modified is still significantly worse but it is not as easy to tell*

# ReE: Original Method 2 vs. Even Phi



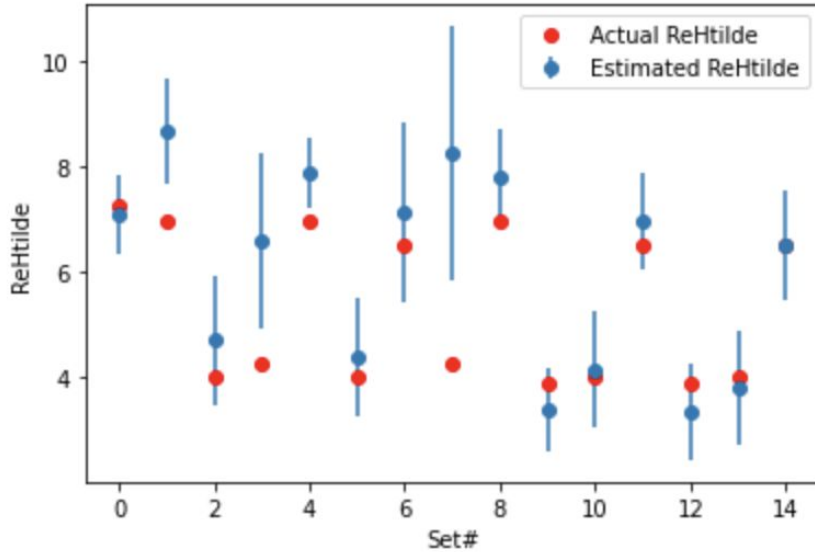
Original



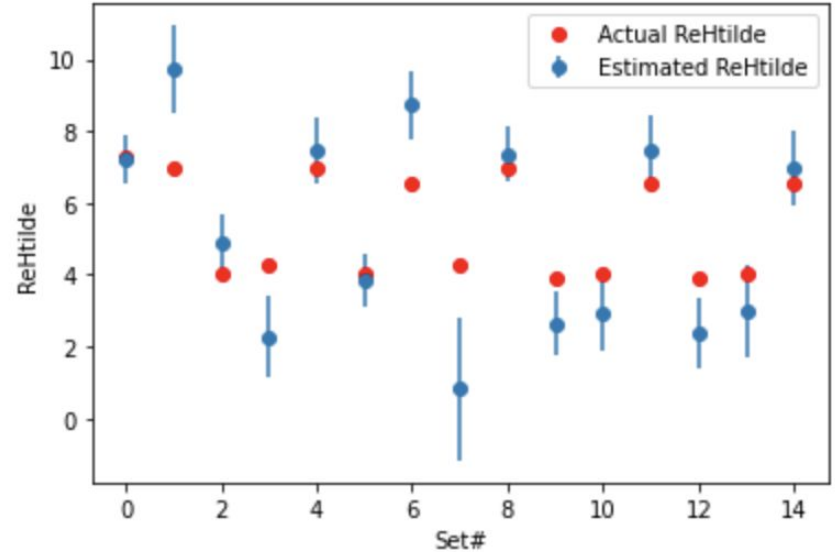
Modified

NOTE: scaling on graphs is different; modified is still significantly worse but it is not as easy to tell

# ReHtilde: Original Method 2 vs. Modified Angle



**Original**



**Modified**

*NOTE: scaling on graphs is different; modified is still significantly worse but it is not as easy to tell*