

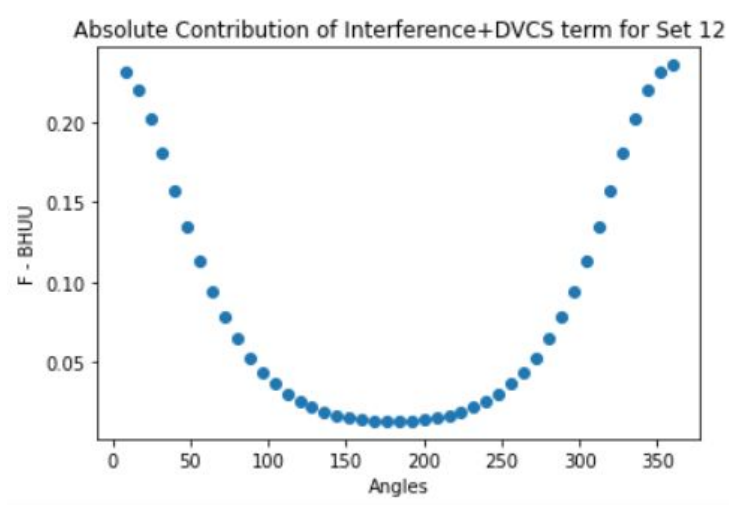
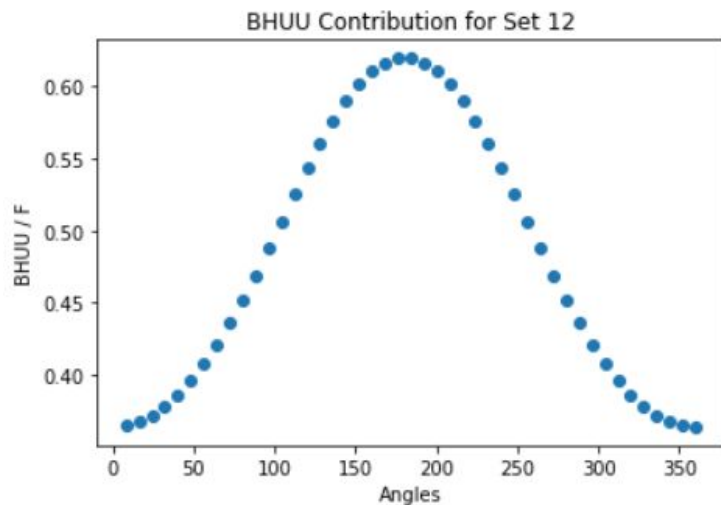
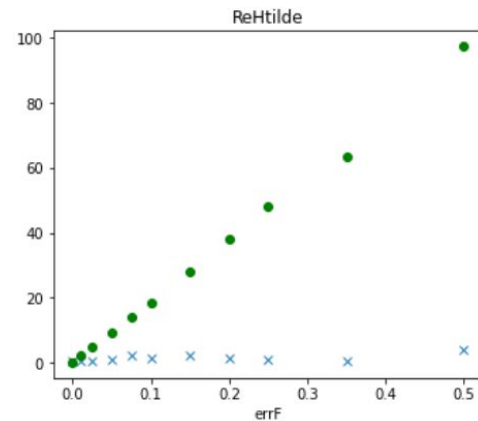
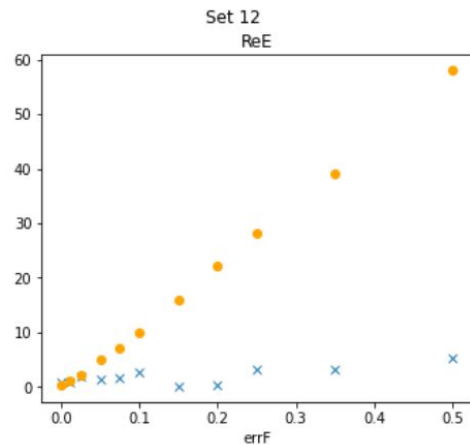
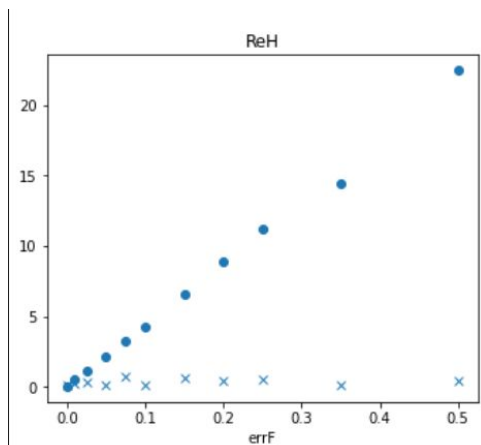
03/18/2022

Aaryan

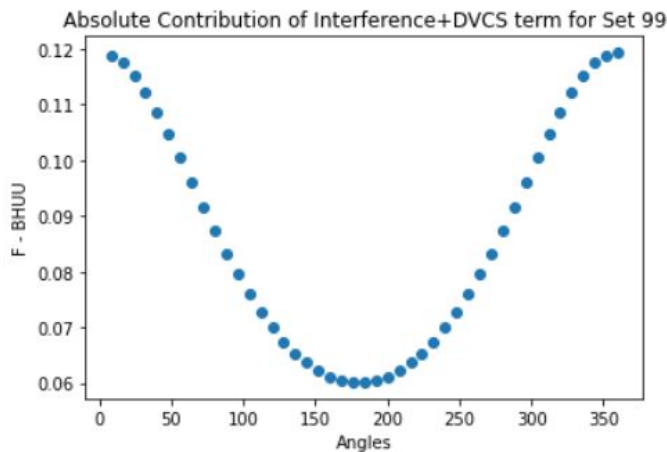
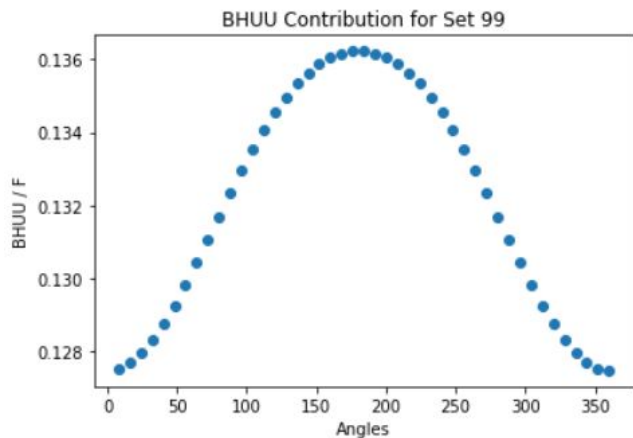
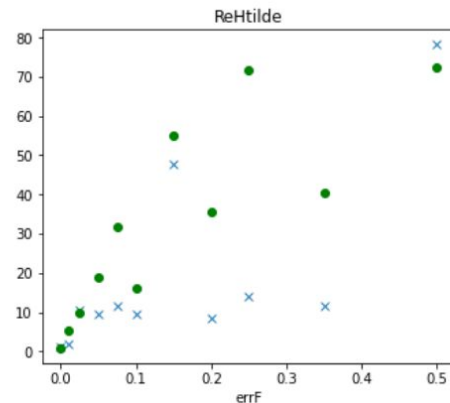
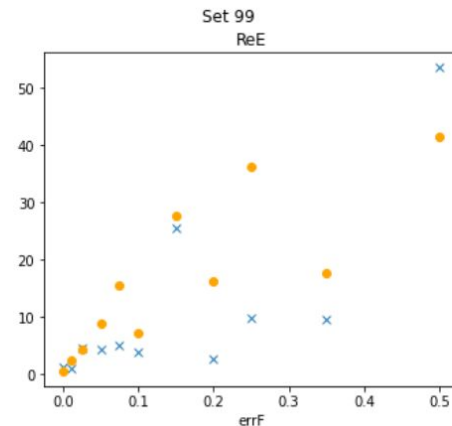
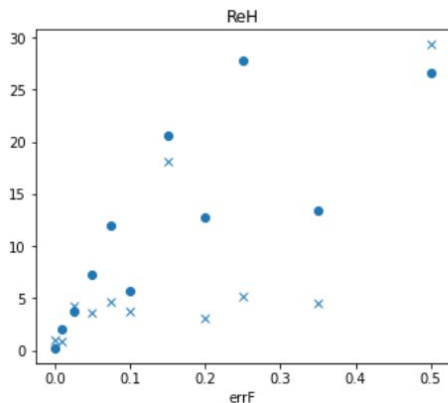
Recap

- Exploring how $errF$ affects the accuracy and spread of the predictions
- What I found:
 - For some sets the accuracy of the predictions are not dependant $errF$ (near horizontal line) while for some other sets the accuracy fluctuates wildly (no real pattern)
- Percent Composition of BHUU term has no effect on the Accuracy v $ErrF$

Set 12

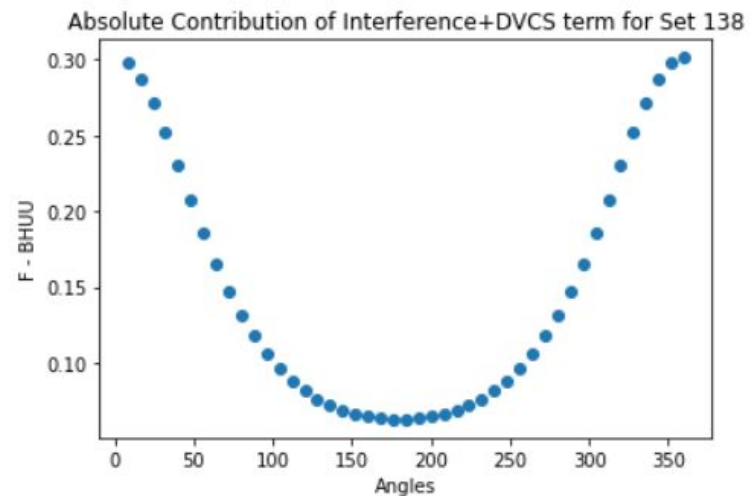
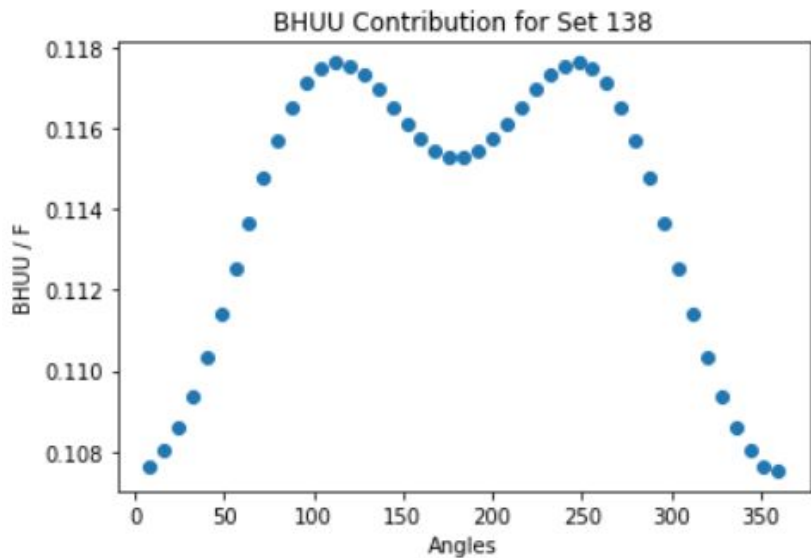
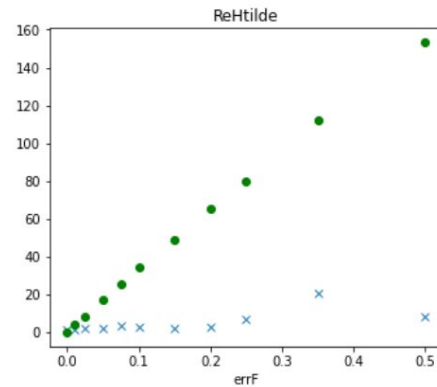
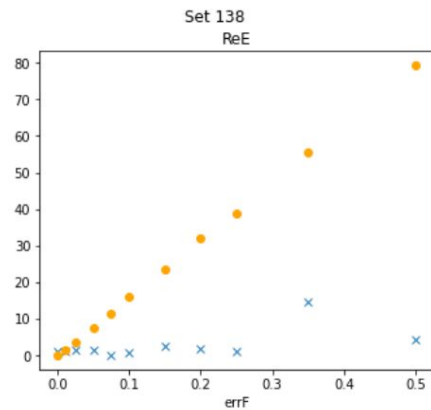
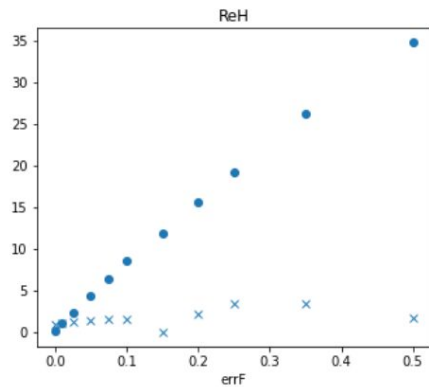


Set 99



Less of a disparity from lowest point to highest compared to set 11

Set 138



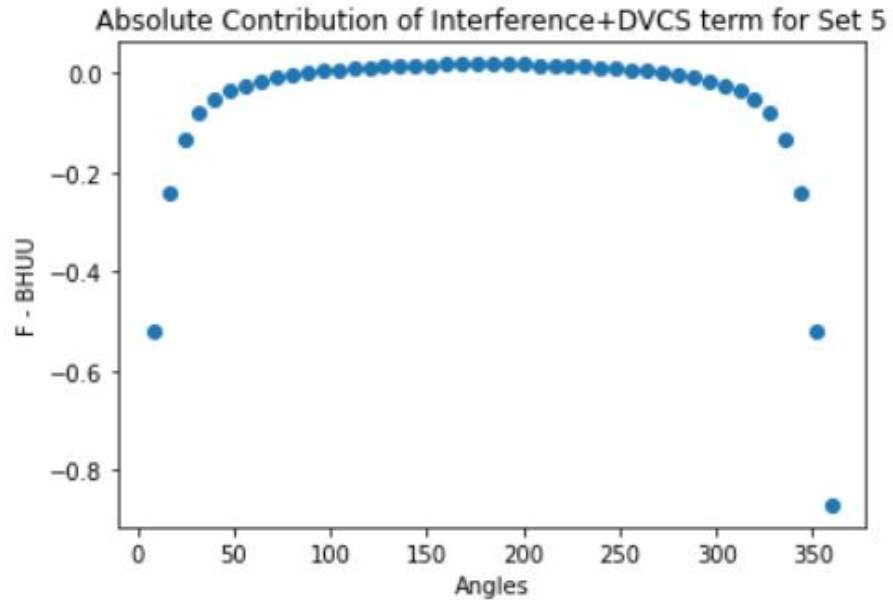
Notable Observations Sets 1-16

Best Fit Lines if ErrF is in Percent

ReH Acc Best Fit: $-0.002x + 1.6026$

ReE Acc Best Fit: $0.0668x + 11.9102$

ReHtilde Acc Best Fit: $0.0001x + 2.3054$



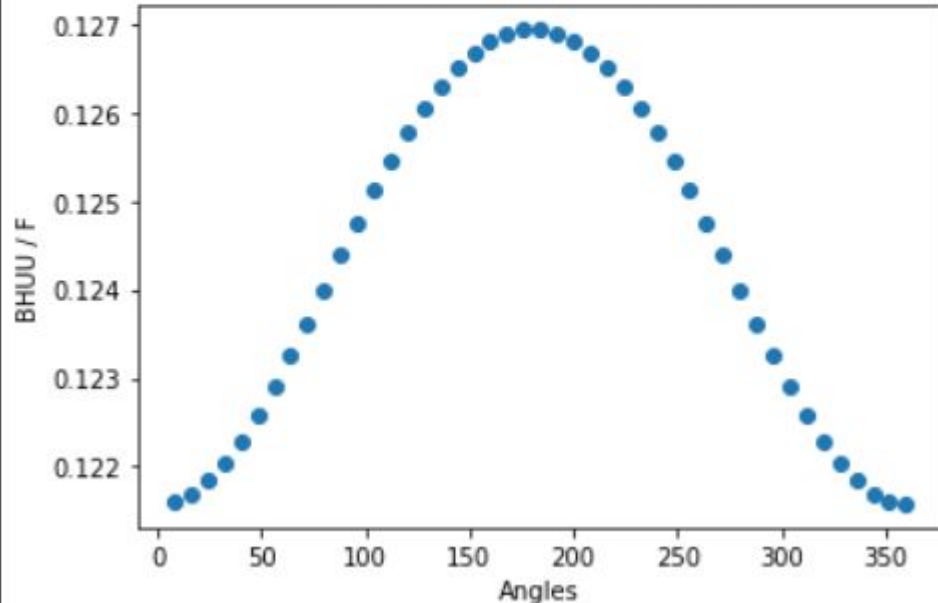
Best Fit Lines if ErrF is in Percent

ReH Acc Best Fit: $0.4329x + 3.2944$

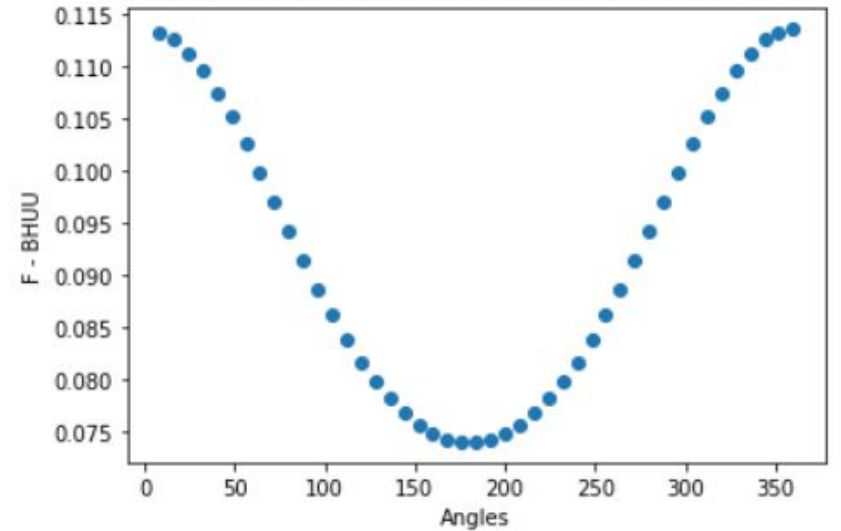
ReE Acc Best Fit: $0.4597x + 4.5595$

ReHtilde Acc Best Fit: $1.032x + 8.5773$

BHUU Contribution for Set 6



Absolute Contribution of Interference+DVCS term for Set 6



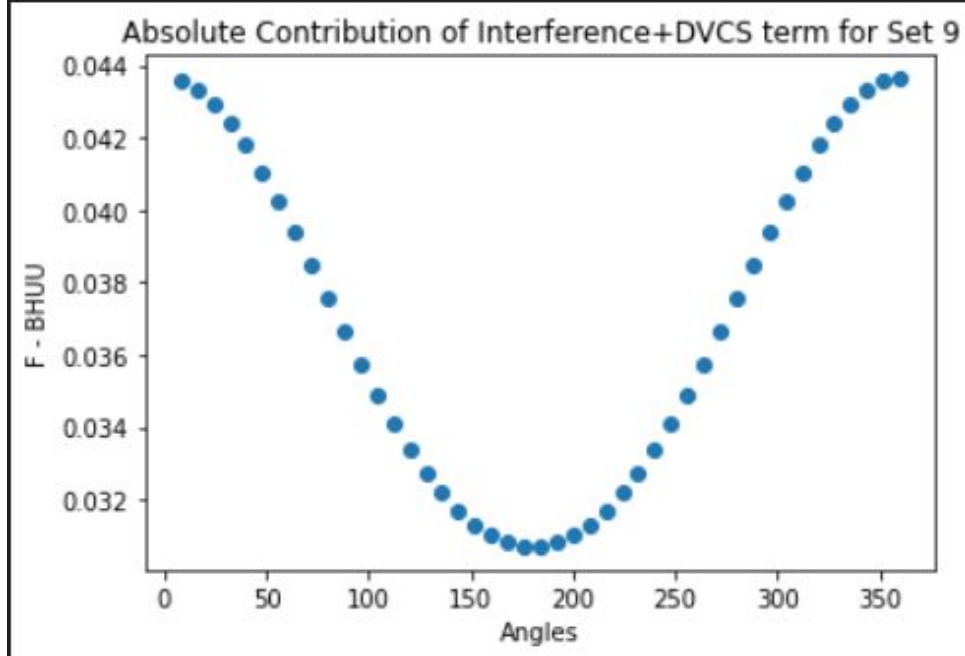
- Really sensitive to errF but F-BHUU term is still small just less spread out

Best Fit Lines if ErrF is in Percent

ReH Acc Best Fit: $0.1909x + 2.0459$

ReE Acc Best Fit: $0.247x + 2.1351$

ReHtilde Acc Best Fit: $0.4496x + 3.1407$



One of the lowest F-BHUU values but the set is somewhat sensitive to errF compared to some other sets

All Takeaways so Far

- It doesn't seem that the percent contribution of BHUU is related to the sensitivity of the predictions when the error on F is changing
- High F - BHUU terms does not seem to cause more sensitive fits to F