Testing other times and other modes to fix the discrepancies by chosing the right starting index by hand
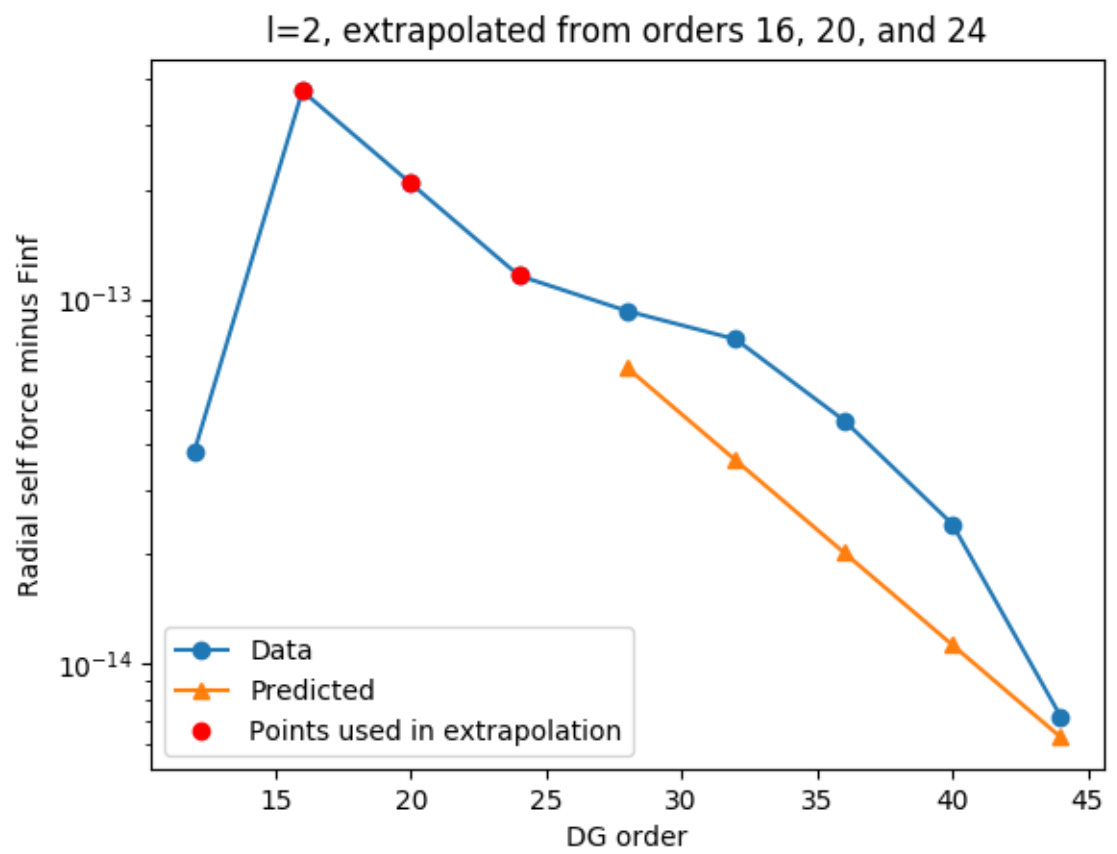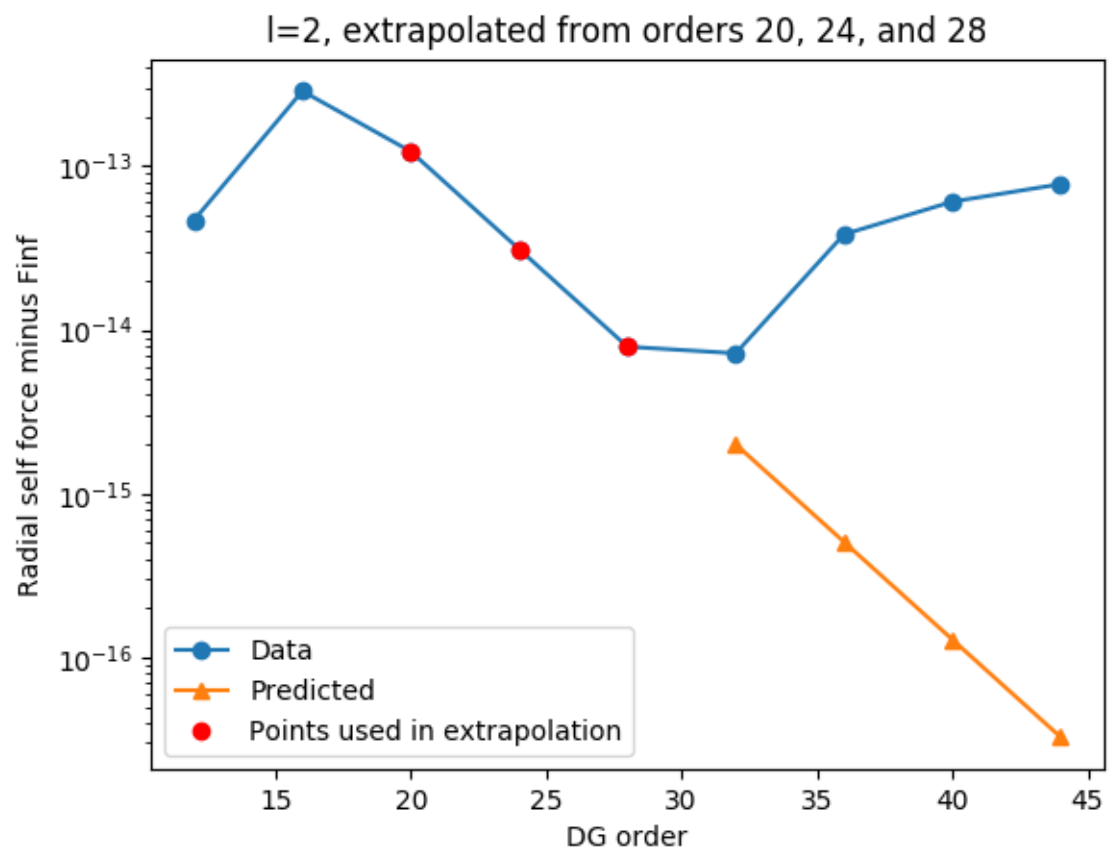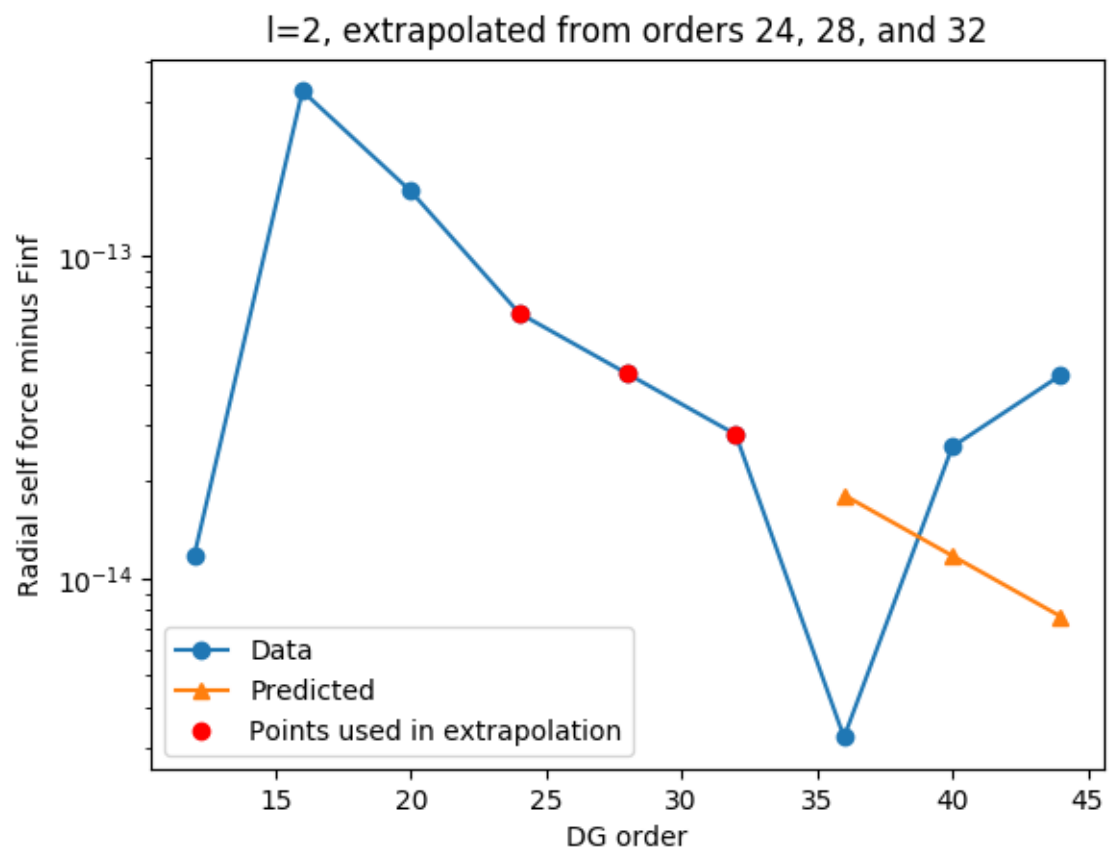
Steven Dorsher
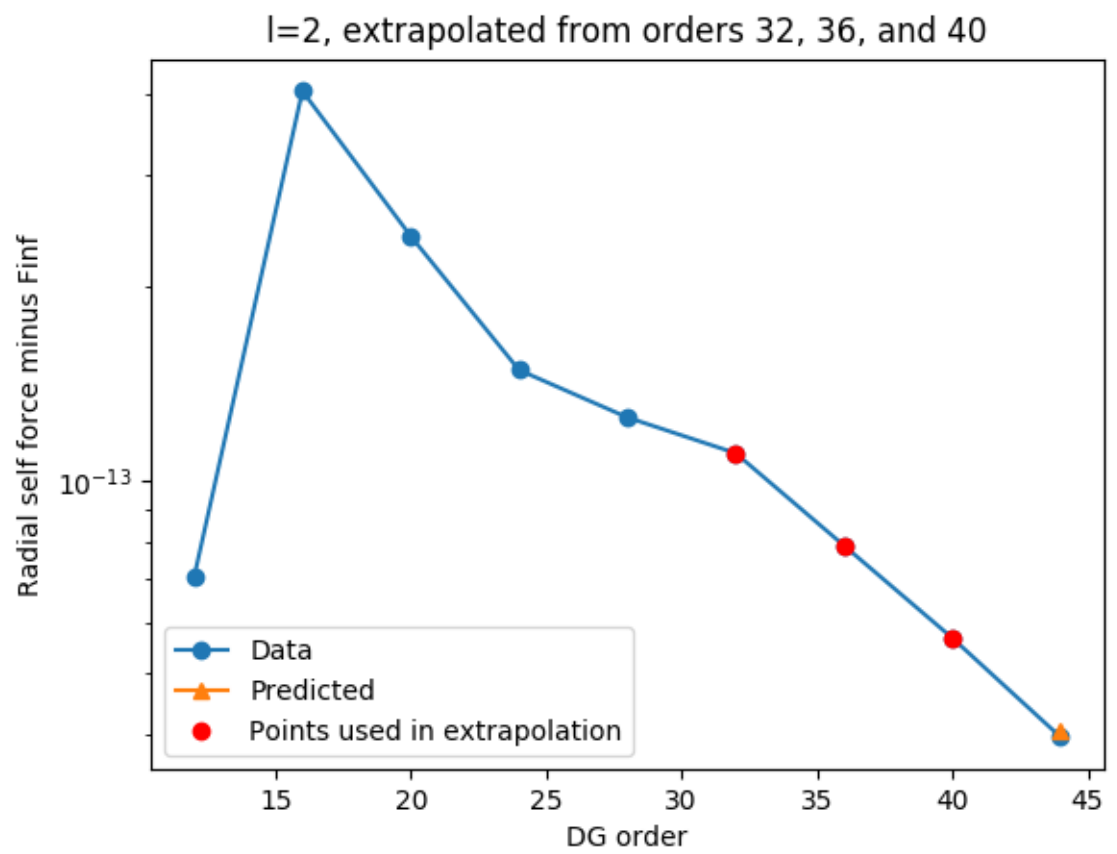
July 21, 2017

1   l=2

Last two data points seem to have been fixed by some nice happenstance. I checked and it is repeatable, so not a memory error. I should check that this is replicable with other modes. Confirm that it is still selected as best index on second run (or wait to improve best index finder).

It is strange that mode 6 is being selected even when mode 0 fails, then it acts like mode 0 is being selected. Could something have changed between subsequent runs of the code? Try rerunning at some point, but maybe more important to implement a better algorithm first. Suggest fit to straight line, wtih some factor to make more degrees of freedom more favorable.

l=2, extrapolated from orders 16, 20, and 24

l=2, extrapolated from orders 20, 24, and 28

l=2, extrapolated from orders 24, 28, and 32

l=2, extrapolated from orders 32, 36, and 40

l=2, extrapolated from orders 36, 40, and 44
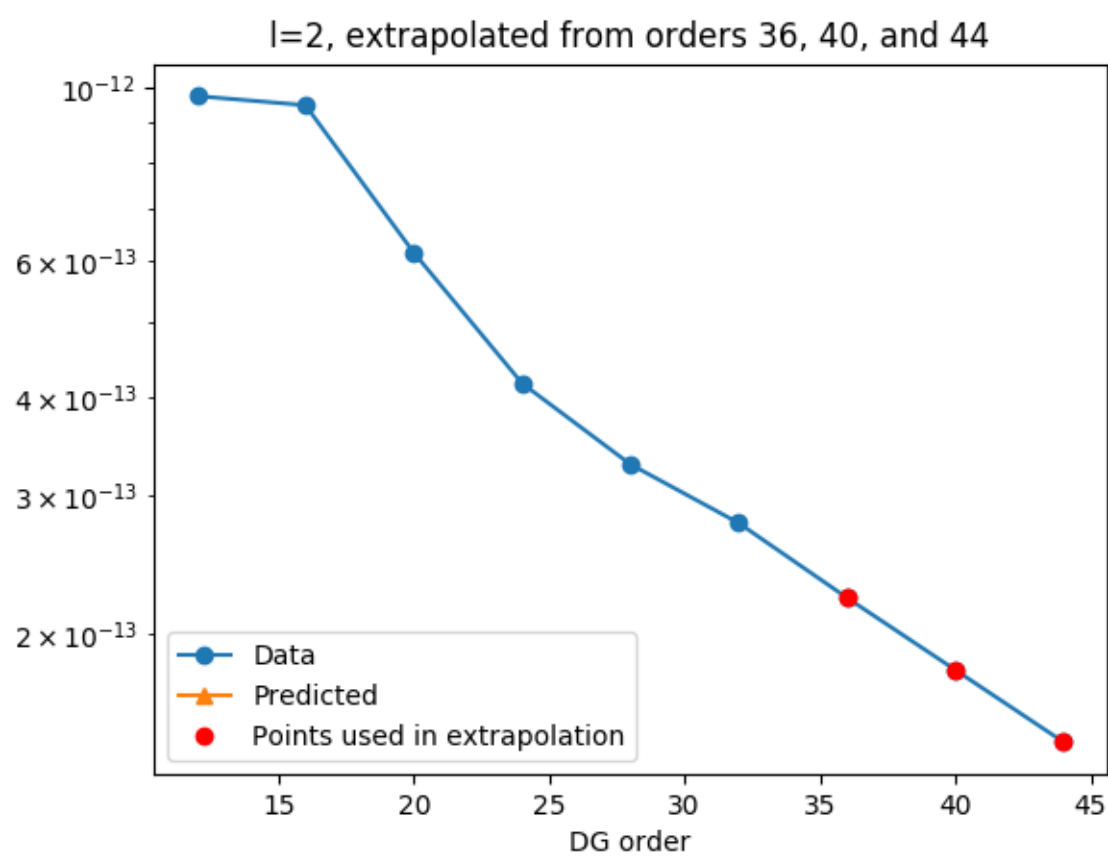
time	starting order	finf
632	0	mode failed
632	1	2.40975299617e-05
632	2	2.40975300465e-05
632	3	2.40975300114e-05
632	4	mode failed
632	5	2.40975299291e-05
632	6	2.40975299148e-05
634	0	mode failed (however, 6 selected)
634	1	2.39990698129e-05
634	2	2.39990699318e-05
634	3	2.39990698774e-05
634	4	mode failed
634	5	2.39990697065e-05
634	6	2.39990696758e-05
636	0	mode failed (however, 6 selected)
636	1	2.391047416e-05
636	2	2.39104742806e-05
636	3	2.39104742249e-05
636	4	2.39104737911e-05
636	5	2.39104739924e-05
636	6	2.39104739079e-05

Repairing the discontinuities in the best choice finf by hand

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