Supplement to “What Makes Molecular Dynamics Work?”
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The plot below is produced with the same parameters as those of Figure 1 of [1]. The blue graph is the difference between the original velocity autocorrelation function and that for $\sigma$ increased by 1.05; the red graph is the difference between that with $\sigma$ increased by 1.05 and that with $\sigma$ increased by 1.1. A step size of 20 fs is used.

A linear relationship between perturbation and effect would require that these two graphs be the same.

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References