

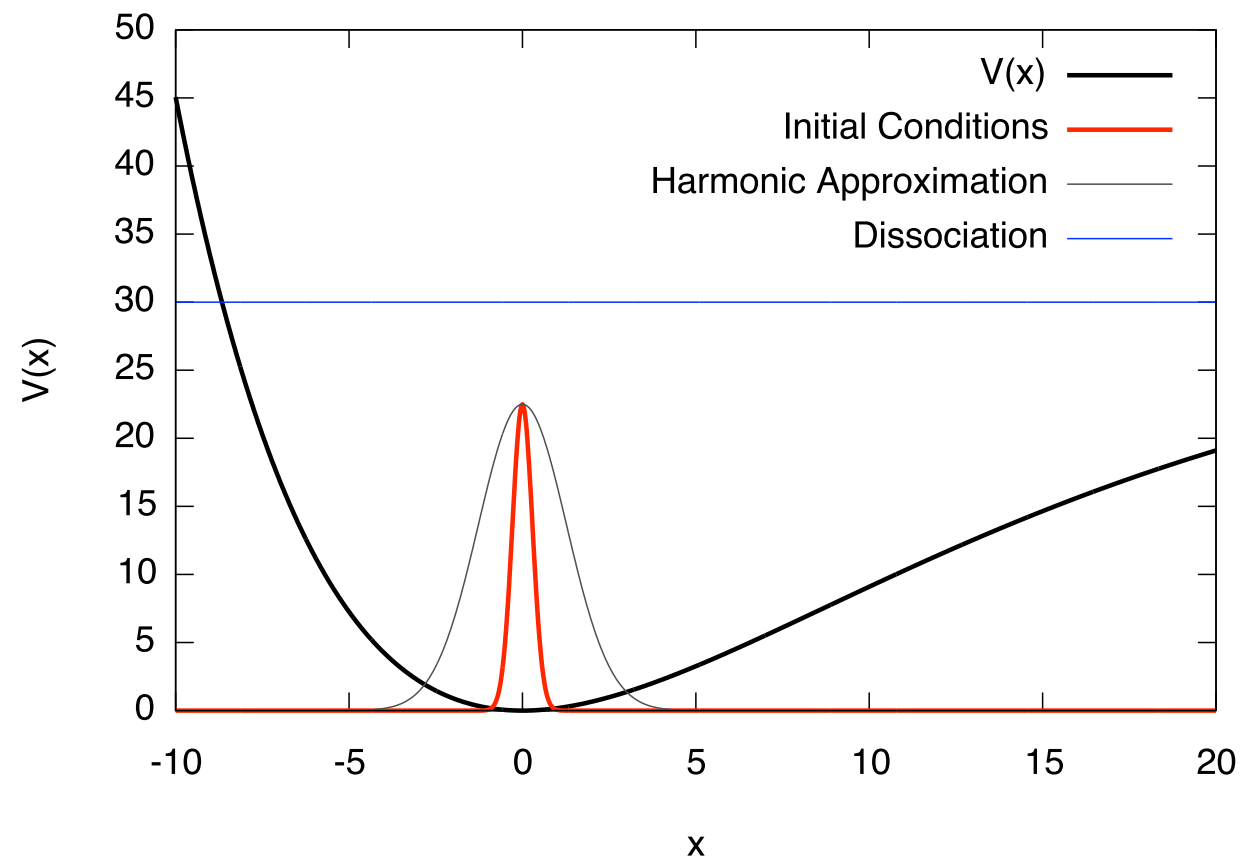
Two speedups

1. Each trajectory can be accepted by more than one distribution: reducing the number of semiclassical trajectories.
2. Each trajectory only needs to be run one time (we sample all distributions simultaneously): massive reduction in the number of classical trajectories.

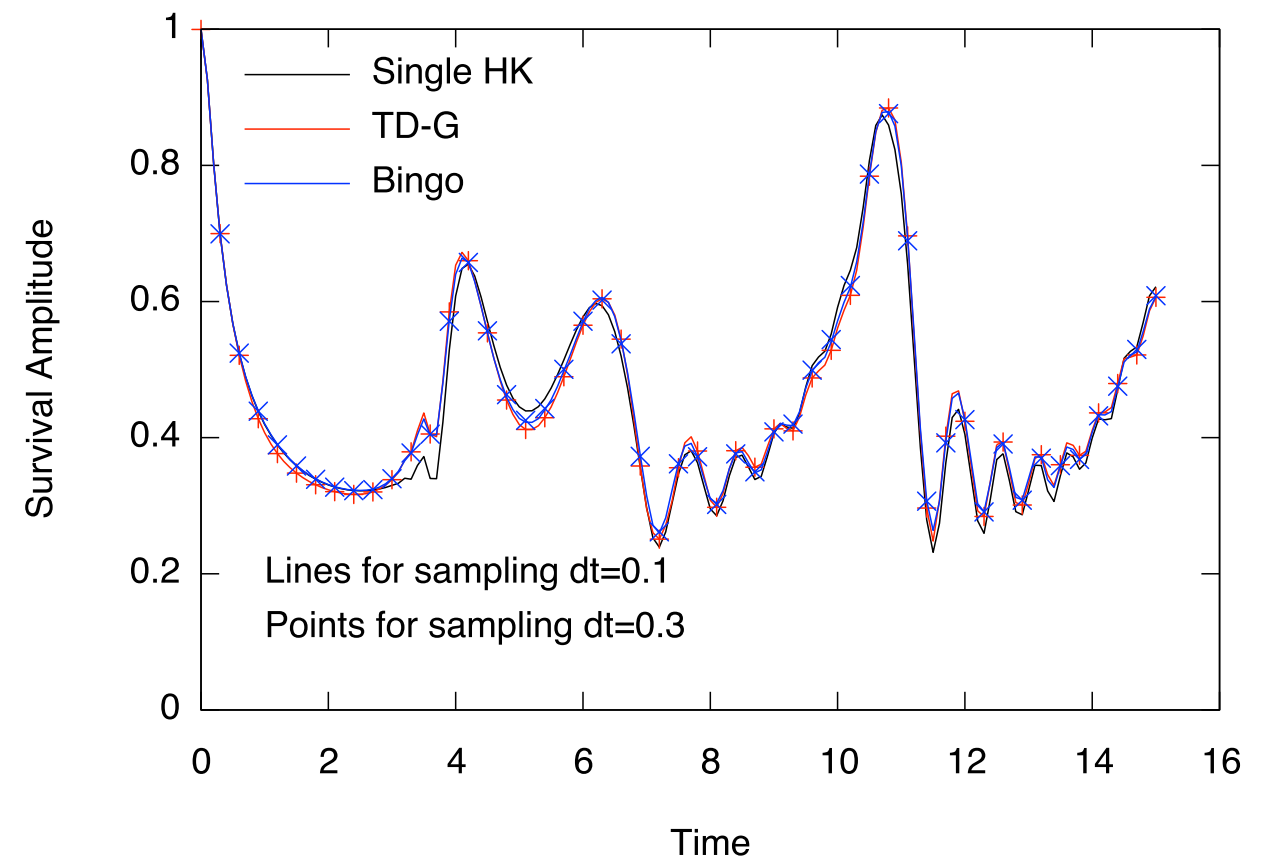
$$\int dx A(x) B(x) C(x) = N_{AB} \left\langle e^{i\phi_{AB}(x)} C(x) \right\rangle_{|A(x)B(x)|}$$

A Simple Test

Model System



Survival Amplitude



$$V(x) = 30.0 \left(1 + (1 - e^{-0.08x})^2 \right)$$

$$\langle x | \psi \rangle = \left(\frac{12}{\pi} \right)^{1/4} e^{-6x^2}$$

$$\mathcal{A}(t) = \sqrt{C_{AB}(t)}$$

$$\hat{A} = \hat{B} = |\psi\rangle \langle \psi|$$