# A Simple Test
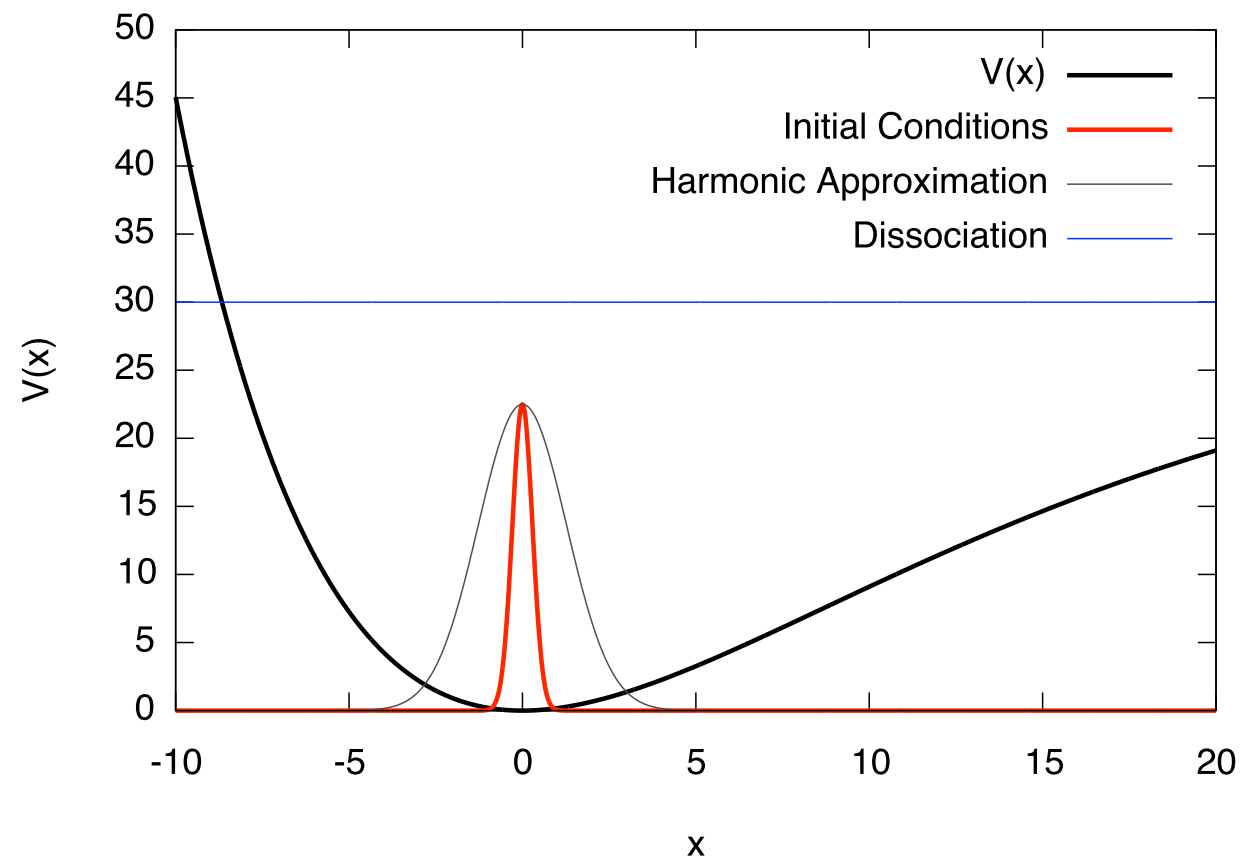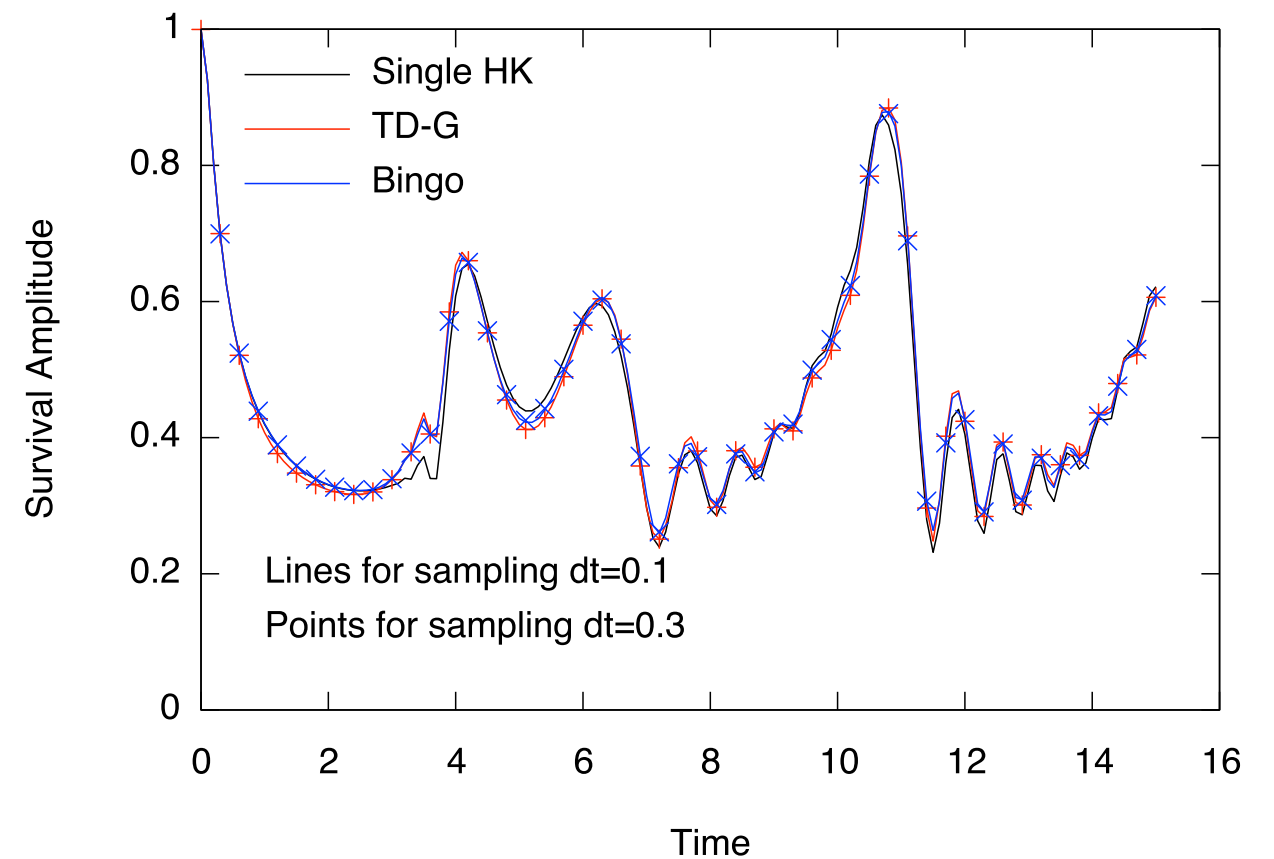
## Model System



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

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

## Survival Amplitude



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

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

# Test with different sets of datapoints

Fewer
Samples

Standard

Longer time