

1 Semiclassical Approximation

The semiclassical approximation is a powerful approach to evaluating the propagator under the right conditions. Roughly speaking, we want a smooth potential and short de Broglie wavelengths. In the semiclassical approximation, the propagator takes the following form,

$$K_{sc}(x, x', t) = F \exp(\frac{i}{\hbar} S_c(x, x', t)), \quad (1)$$

where S_c is a strictly classical quantity, the action evaluated along the classical path from x to x' . The pre-factor F is an approximation to the path integral for paths other than the classical path. When the semiclassical approximation is working, most of the important physics is in S_c , not F . The semiclassical approximation is exact, that is not an approximation, for the free particle and the harmonic oscillator, among other examples. It is important to realize that the semiclassical approximation has to do with how close F is to the path integral around the classical path. Any path integral can be written in the form of Eq.(1). The semi-classical approximation then is an approximation to F . The general formula for F in semiclassical approximation is given at the end of these notes.

Classical Path and Classical Action Consider any path $x(t')$ which starts at x' and ends at x . This means $x(0) = x'$, and $x(t) = x$. Once we have a path, we can calculate the action for that path. This is just

$$S = \int_0^t L(x(t')) dt'.$$

The action certainly depends on the path used to calculate it. Now suppose we go to a nearby path,

$$x(t') \rightarrow x(t') + \delta(t')$$

where $\delta(t')$ is small and vanishes at the endpoints, $\delta(0) = \delta(t) = 0$. In other words, we are considering only paths which start and end at our two points. It is of interest to see how the action varies to $O(\delta)$. Putting $x(t') \rightarrow x(t') + \delta(t')$ into the Lagrangian, we have

$$L \rightarrow \frac{m}{2} \left(\frac{d}{dt}(x + \delta) \right)^2 - V(x + \delta)$$

Expanding, we have

$$L = \frac{m}{2} \left(\frac{dx}{dt} \right)^2 + m \frac{dx}{dt} \frac{d\delta}{dt} - V(x) - \delta \frac{\partial}{\partial x} V + \dots$$

Putting these terms in the action, we have for δS ,

$$\delta S = \int_0^t dt' \left(\frac{dx}{dt} \frac{d\delta}{dt} - \delta \frac{\partial}{\partial x} V \right)$$

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