

Problem 2.1

A one-dimensional initial wave packet with a mean wave number $\overline{k_x}$ and a Gaussian amplitude is given by

$$\Psi(x, 0) = C \exp \left[-\frac{x^2}{4(\Delta x)^2} + i\overline{k_x}x \right].$$

Calculate the corresponding $\overline{k_x}$ distribution and $\Psi(x, t)$, assuming free particle motion. Plot $|\Psi(x, t)|^2$ as a function of x for several values of t , choosing Δx small enough to show that the wave packet spreads in time, while it advances according to the classical laws. Apply the results to calculate the effect of spreading in some typical microscopic and macroscopic experiments.

The first step is to compute the Fourier transform of $\Psi(x, 0)$ to find the distribution of the wave packet in momentum space:

$$\begin{aligned} \Phi(k) &= (2\pi)^{-1/2} \int_{-\infty}^{\infty} \Psi(x, 0) e^{-ikx} dx \\ &= (2\pi)^{-1/2} C \int_{-\infty}^{\infty} \exp \left[-\frac{x^2}{4(\Delta x)^2} + i(k_0 - k)x \right] dx \end{aligned} \quad (1)$$

Merzbacher Exercise Solutions

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