

WKB fails just where you need it most à boundaries Solution: approximate was function in boarding region by a straight line

Chapter 9: Time-Dependent Perturbation Tleory. Suppose a particle is in one energy eigenstate that there can I move that particle to a différent energy eigenstade? portide d<H> = i (IH) + (dH) + Easier if time dependence is a perturbation H(t) = Ho + H(t) e.g. two-state Hamiltonian Ho 4a = Ea 4a Ho 46 = E6 46 <4614>=0 $\Psi(0) = C_a \Psi_a + C_b \Psi_b$ $|C_1|^2 + |C_b|^2 = 1$ I(t) = ca Ya e-iEat/h + ch ye it th If H' 70. \(\bar{\psi}(t) = C_a(t) \(\bar{\psi}_a e^{-iE_at/\hat{\phi}} + C_b(t) \\ \begin{array}{c} e^{-iE_bt/\hat{\phi}} \\ e^{-iE_bt/\hat{\phi}} \end{array} (Ho+H') = HP = it 24.