

Quiz on Chapter 9

1. What is the relation between the operator H' and the matrix element H'_{ab} ?
2. For a perturbation that is time-independent (apart from being turned on at $t = 0$), how does the transition probability from state a to state b depend on the matrix element H'_{ab} ? (ignoring constants and other factors—just how does H'_{ab} appear in the formula for $P_{a \rightarrow b}$)