

## SECTION OVERVIEW

### 13.5: Quantum Linear Response Theory

Consider again the Hamiltonian for a system coupled to a time-dependent field

$$H = H_0 - BF_e(t)$$

We wish to solve the quantum Liouville equation

$$i\hbar \frac{\partial \rho}{\partial t} = [H, \rho]$$

in the linear regime where  $F_e(t)$  is small.

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