

CHAPTER 16.

1. The perturbation caused by the magnetic field changes the simple harmonic oscillator Hamiltonian H_0 to the new Hamiltonian H

$$H = H_0 + \frac{q}{2m} \mathbf{B} \cdot \mathbf{L}.$$

If we choose $\mathbf{B}$ to define the direction of the z axis, then the additional term involves $B L_z$. When H acts on the eigenstates of the harmonic oscillator, labeled by $|n, l, m\rangle$, we get

$$H |n, l, m\rangle = \left(\hbar\omega(2n + l + \frac{3}{2}) + \frac{qB\hbar}{2m} m \right) |n, l, m\rangle$$

Let us denote $qB/2m$ by ω_B . Consider the three lowest energy states:

$n = 0, l = 0$, the energy is $3\hbar\omega/2$.

$n = 0, l = 1$ This three-fold degenerate level with unperturbed energy $5\hbar\omega/2$, splits into three nondegenerate energy levels with energies

$$E = 5\hbar\omega/2 + \hbar\omega_B \begin{pmatrix} 1 \\ 0 \\ -1 \end{pmatrix}$$

The next energy level has quantum numbers $n = 2, l = 0$ or $n = 0, l = 2$. We thus have a four-fold degeneracy with energy $7\hbar\omega/2$. The magnetic field splits these into the levels according to the m value. The energies are

$$E = 7\hbar\omega/2 + \hbar\omega_B \begin{pmatrix} 2 \\ 1 \\ 0,0 \\ -1 \\ -2 \end{pmatrix} \quad n = 1, 0$$

2. The system has only one degree of freedom, the angle of rotation θ . In the absence of torque, the angular velocity $\omega = d\theta/dt$ is constant. The kinetic energy is

$$E = \frac{1}{2} Mv^2 = \frac{1}{2} \frac{(M^2 v^2 R^2)}{MR^2} = \frac{1}{2} \frac{L^2}{I}$$

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Clifford Lane



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