

or

$$\psi(x, Q_1) = \frac{\alpha^2 x^2}{8} \cot Q_1. \quad (19)$$

Finally, combining (19), (18), (17), and (15) and comparing with (11) we see that we may simply take $\phi(Q_1) = 0$. The final form of the generating function is then

$$F(x, Q_1, p_y, Q_2) = -\left(\frac{\alpha}{2}x + \frac{1}{\alpha}p_y\right)Q_2 + \left(\frac{\alpha^2 x^2}{8} - \frac{1}{2}xp_y + \frac{1}{2\alpha^2}p_y^2\right)\cot Q_1$$

and its existence proves the canonicity of the transformation.

Turning now to the solution of the problem, we take the $\mathbf{B}$ field in the z direction, i.e. $\mathbf{B} = B_0\hat{\mathbf{k}}$, and put

$$\mathbf{A} = \frac{B_0}{2} \begin{pmatrix} -y\hat{\mathbf{i}} + x\hat{\mathbf{j}} \end{pmatrix}.$$

Then the Hamiltonian is

$$\begin{aligned} H(x, y, p_x, p_y) &= \frac{1}{2m} \left(\mathbf{p} - \frac{q}{c} \mathbf{A} \right)^2 \\ &= \frac{1}{2m} \left[\left(p_x + \frac{qB_0}{2c}y \right)^2 + \left(p_y - \frac{qB_0}{2c}x \right)^2 \right] \\ &= \frac{1}{2m} \left[\left(p_x + \frac{\alpha^2}{2}y \right)^2 + \left(p_y - \frac{\alpha^2}{2}x \right)^2 \right] \end{aligned}$$

where we put $\alpha^2 = qB_0/c$. In terms of the new variables, this is

$$\begin{aligned} H(Q_1, Q_2, P_1, P_2) &= \frac{1}{2m} \left[\left(\alpha\sqrt{2P_1}\cos Q_1 \right)^2 + \left(\alpha\sqrt{2P_1}\sin Q_1 \right)^2 \right] \\ &= \frac{\alpha^2}{m} P_1 \\ &= \omega_c P_1 \end{aligned}$$

where $\omega_c = qB_0/mc$ is the cyclotron frequency. From the Hamiltonian equations of motion applied to this Hamiltonian we see that Q_2 , P_1 , and P_2 are all constant, while the equation of motion for Q_1 is

$$\dot{Q}_1 = \frac{\partial H}{\partial P_1} = \omega_c \quad \longrightarrow \quad Q_1 = \omega_c t + \phi$$

for some phase ϕ . Putting $r = \sqrt{2P_1}/\alpha$, $x_0 = P_2/\alpha$, $y_0 = Q_2/\alpha$ we then have

$$\begin{aligned} x &= r(\sin \omega_c t + \phi) + x_0, & p_x &= \frac{m\omega_c}{2} [r \cos(\omega_c t + \phi) - y_0] \\ y &= r(\cos \omega_c t + \phi) + y_0, & p_y &= \frac{m\omega_c}{2} [r \sin(\omega_c t + \phi) + x_0] \end{aligned}$$

in agreement with the standard solution to the problem.

Goldstein Classical Solution

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