

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  $\phi$ . 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

**Robert W. Hornbeck**



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