CHE

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

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

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

and its existence proves the canonicality of the transformation.

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

$$\mathbf{A} = \frac{B_0}{2} \left( -y \mathbf{I} + x \mathbf{j} \right).$$

Then the Hamiltonian is

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

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

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

where  $\omega_c = qB/mc$  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

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

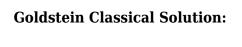
for some phase  $\phi$ . Putting  $r = \sqrt{2P_1}/\alpha$ ,  $x_0 = P_2/\alpha$ ,  $y_0 = Q_2/\alpha$  we then have

$$x = r(\sin \omega_c t + \phi) + x_0$$
,  $p_x = \frac{m\omega_x}{2} \left[r \cos(\omega_c t + \phi) - y_0\right]$   
 $y = r(\cos \omega_c t + \phi) + y_0$ ,  $p_y = \frac{m\omega_x}{2} \left[r \sin(\omega_c t + \phi) + x_0\right]$ 

in agreement with the standard solution to the problem.

# **Goldstein Classical Solution**

**Terry C. Jones** 



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