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

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

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

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

$$Q_1 = \frac{\partial H}{\partial P_c} = \omega_c$$
 \longrightarrow $Q_2 = \omega_c t + \phi$

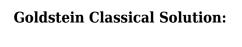
for some phase ϕ . Putting $r = \sqrt{2P_1}/\alpha$, $x_0 = P_2/\alpha$, $y_0 = Q_2/\alpha$ we then have

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

in agreement with the standard solution to the problem.

Goldstein Classical Solution

Jessica J Manson



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