$$\begin{pmatrix} 9_{1} \\ 9_{2} \\ 9_{3} \end{pmatrix} = \begin{pmatrix} -3 & +2 & 0 \\ +2 & -5 & 2 \\ 0 & 2 & -3 \end{pmatrix} \begin{pmatrix} 9_{1} \\ 9_{2} \\ 9_{3} \end{pmatrix}$$

Europewohns of the mobrie (2) W  $_{2}$ . E  $q_{\mu} = q_{\mu}e^{iW}$ 

· W1E St(M), 9,=0,e LW1E Sale for a.

$$H(\mathbf{r}, \mathbf{p}) = \frac{(\mathbf{p} - q\mathbf{A}(\mathbf{r}))^2}{2m} + q\Phi(\mathbf{r})$$
 -> Glassical e.m. Hamiltonian

$$\mathbf{A}\left(\mathbf{r}
ight)=rac{m\omega}{2q}\left(x\mathbf{e}_{y}-y\mathbf{e}_{x}
ight),\quad\Phi\left(\mathbf{r}
ight)=rac{m\Omega^{2}}{4q}\left(2z^{2}-x^{2}-y^{2}
ight),$$

$$\vec{P} \cdot \vec{q} = |P_x + 4 \frac{m w}{2 q} y = (\vec{p} - q \vec{a})^2 - (\vec{p} - q \vec{a})^2 + (\vec{p$$

Standawl Mieiner Hormonie Kenetie Ferm P/2 Patentiel Ordlator Trapping only if Potential Cemperanent along 2014 W2-222>0 A>~ partides are ejected from the "brogs"

a system of units such that m = 1 and  $\Omega_0 = 1$ . We perform a first canonical transformation  $(x, y, p_x, p_y, ) \rightarrow (q_+, q_-, p_+, p_-)$  generated by following generating function

$$S\left(p_{x},y,q_{+},q_{-}
ight)=-p_{x}\left(q_{+}+q_{-}
ight)-rac{y}{2}\left(q_{+}-q_{-}
ight).$$

This generating function gives the canonical transformation from the following relations

$$x=-rac{\partial S}{\partial p_x}, \quad p_+=-rac{\partial S}{\partial q_+}, \quad p_y=rac{\partial S}{\partial y}, \quad p_-=-rac{\partial S}{\partial q_-}$$

$$H = \frac{p^2}{2m} + \frac{\omega}{2}(yp_2-xp_3) + \frac{\omega}{2}(y^2-2p_2)(x^2+y^2)$$

$$H_2 = \frac{p^2}{2m} + \frac{\omega}{2}(yp_2-xp_3) + \frac{\omega}{2}(y^2-2p_2)(x^2+y^2)$$

$$||f|_2 = \frac{p^2}{2} + \frac{\omega}{2}(yp_2-xp_3) + \frac{\omega}{2}(yp_2-xp_3) + \frac{\omega}{2}(yp_2-yp_3)$$

$$||f|_2 = \frac{p^2}{2m} + \frac{\omega}{2}(yp_2-xp_3) + \frac{\omega}{2}(yp_2-xp_3) + \frac{\omega}{2}(yp_2-xp_3)$$

$$||f|_2 = \frac{p^2}{2m} + \frac{\omega}{2}(yp_2-xp_3) + \frac{\omega}{2}(yp_2-xp_3) + \frac{\omega}{2}(yp_2-xp_3)$$

$$||f|_2 = \frac{p^2}{2m} + \frac{\omega}{2}(yp_2-xp_3) + \frac{\omega}{2}(yp_2-xp_3)$$

$$\frac{99^{2} - 299}{2} = \frac{(p_{+} - p_{-})(p_{+} + p_{-})}{2} + \frac{(q_{+} + q_{-})}{2}(q_{+} - q_{-})$$

$$= p_{+^{2} - p_{-}^{2}} + q_{+^{2} - q_{-}^{2}}$$

$$\boxed{99^{2} - 299} = \frac{1}{2}(p_{+}^{2} + q_{+}^{2}) - \frac{1}{2}(q_{-}^{2} + p_{-}^{2})$$

$$= \frac{1}{4} \left[ \frac{q_1^2 + p_1^2}{4 + p_1^2 + 2p_1^2 + 2p_1^2 - 2q_1 q_1} \right]$$

$$+ \frac{1}{4} \left[ \frac{q_1^2 + p_1^2}{4 + p_1^2} + \frac{1}{4} \right] \left( \frac{q_1^2 + p_2^2}{4 + p_1^2} + \frac{1}{4} \right) \left( \frac{q_1^2 + p_2^2}{4 + p_1^2} + \frac{1}{4} \right) \left( \frac{q_1^2 + p_2^2}{4 + p_1^2} + \frac{1}{4} \right) \left( \frac{q_1^2 + p_2^2}{4 + p_1^2} + \frac{1}{4} \right) \left( \frac{q_1^2 + p_2^2}{4 + p_1^2} + \frac{1}{4} \right) \left( \frac{q_1^2 + p_2^2}{4 + p_1^2} + \frac{1}{4} \right) \left( \frac{q_1^2 + p_2^2}{4 + p_1^2} + \frac{1}{4} \right) \left( \frac{q_1^2 + p_2^2}{4 + p_1^2} + \frac{1}{4} \right) \left( \frac{q_1^2 + p_2^2}{4 + p_1^2} + \frac{1}{4} \right) \left( \frac{q_1^2 + p_2^2}{4 + p_1^2} + \frac{1}{4} \right) \left( \frac{q_1^2 + p_2^2}{4 + p_1^2} + \frac{1}{4} \right) \left( \frac{q_1^2 + p_2^2}{4 + p_1^2} + \frac{1}{4} \right) \left( \frac{q_1^2 + q_2^2}{4 + p_1^2} + \frac{1}{4} \right) \left( \frac{q_1^2 + q_2^2}{4 + p_1^2} + \frac{1}{4} \right) \left( \frac{q_1^2 + q_2^2}{4 + p_1^2} + \frac{1}{4} \right) \left( \frac{q_1^2 + q_2^2}{4 + p_1^2} + \frac{1}{4} \right) \left( \frac{q_1^2 + q_2^2}{4 + p_1^2} + \frac{1}{4} \right) \left( \frac{q_1^2 + q_2^2}{4 + p_1^2} + \frac{1}{4} \right) \left( \frac{q_1^2 + q_1^2}{4 + p_1^2} + \frac{1}{4} \right) \left( \frac{q_1^2 + q_1^2}{4 + p_1^2} + \frac{1}{4} \right) \left( \frac{q_1^2 + q_1^2}{4 + p_1^2} + \frac{1}{4} \right) \left( \frac{q_1^2 + q_1^2}{4 + p_1^2} + \frac{1}{4} \right) \left( \frac{q_1^2 + q_1^2}{4 + p_1^2} + \frac{1}{4} \right) \left( \frac{q_1^2 + q_1^2}{4 + p_1^2} + \frac{1}{4} \right) \left( \frac{q_1^2 + q_1^2}{4 + p_1^2} + \frac{1}{4} \right) \left( \frac{q_1^2 + q_1^2}{4 + p_1^2} + \frac{1}{4} \right) \left( \frac{q_1^2 + q_1^2}{4 + p_1^2} + \frac{1}{4} \right) \left( \frac{q_1^2 + q_1^2}{4 + p_1^2} + \frac{1}{4} \right) \left( \frac{q_1^2 + q_1^2}{4 + p_1^2} + \frac{1}{4} \right) \left( \frac{q_1^2 + q_1^2}{4 + p_1^2} + \frac{1}{4} \right) \left( \frac{q_1^2 + q_1^2}{4 + p_1^2} + \frac{1}{4} \right) \left( \frac{q_1^2 + q_1^2}{4 + p_1^2} + \frac{1}{4} \right) \left( \frac{q_1^2 + q_1^2}{4 + p_1^2} + \frac{1}{4} \right) \left( \frac{q_1^2 + q_1^2}{4 + p_1^2} + \frac{1}{4} \right) \left( \frac{q_1^2 + q_1^2}{4 + p_1^2} + \frac{1}{4} \right) \left( \frac{q_1^2 + q_1^2}{4 + q_1^2} + \frac{1}{4} \right) \left( \frac{q_1^2 + q_1^2}{4 + q_1^2} + \frac{1}{4} \right) \left( \frac{q_1^2 + q_1^2}{4 + q_1^2} + \frac{1}{4} \right) \left( \frac{q_1^2 + q_1^2}{4 + q_1^2} + \frac{1}{4} \right) \left( \frac{q_1^2 + q_1^2}{4 + q_1^2} + \frac{1}{4} \right) \left( \frac{q_1^2 + q_1^2}{4 + q_1^2} + \frac{1}{4} \right) \left( \frac{q_1^2 + q_1^2}{4 + q_1^2} + \frac{1}{4} \right) \left( \frac{q_1^2 + q_1^2}{4 + q_1^2} + \frac{1}{4} \right) \left( \frac{q_1^2 + q_1^2}{4 +$$

$$H_{+} = \frac{\Omega_{+}}{2} (q_{+}^{2} + p_{+}^{2})$$

$$H_{-} = (-\frac{\omega}{4} + \frac{1}{8} + \frac{1}{8}) (q_{-}^{2} + p_{-}^{2})$$

$$H_{-} = -\frac{\Omega_{-}}{2} (q_{-}^{2} + p_{-}^{2})$$

$$\frac{1}{8} (-2p_{+}p_{-} + 2q_{+}q_{+}) + \frac{1}{8} (2p_{+}p_{-} - 2p_{+}q_{+})$$

$$= 0$$

A second canonical transformation  $q_+, q_-, z, p_+, p_-, p_z \to \theta, \varphi, \phi, J, D, I$  is performed where J, D and I are called actions and where  $\theta, \varphi$  and  $\phi$  are called angles. This transformation is generated by the generating function

$$F\left(q_{+},q_{-},z,\theta,\varphi,\phi\right)=\frac{q_{+}^{2}}{2}\cot\left(\theta\right)+\frac{q_{-}^{2}}{2}\cot\left(\varphi\right)+\frac{\Omega z^{2}}{2}\cot\left(\phi\right).$$

This transformation derive from the following relations

$$p_{+} = \frac{\partial F_{1}}{\partial q_{+}}, \quad J = -\frac{\partial F_{1}}{\partial \theta}, \quad p_{-} = \frac{\partial F_{1}}{\partial q_{-}}$$

$$D = -\frac{\partial F_{1}}{\partial \varphi}, \quad p_{z} = \frac{\partial F_{1}}{\partial z}, \quad I = -\frac{\partial F_{1}}{\partial \phi} \quad \frac{\partial}{\partial \theta} \left( \text{ton}(\theta) \right) = \frac{1}{\cos^{2}(\theta)}$$

$$P_{+} = \sqrt{2} \cos(\theta) \quad \int \cdot \int = -\frac{q^{2}}{2} \int_{\theta} \left( \cot(\theta) \right) = -\frac{q^{2}}{2}, \quad \frac{\cos^{2}(\theta)}{\cos^{2}(\theta)}$$

$$P_{+} = \sqrt{2} \cos(\theta) \quad = \frac{q^{2}}{2}, \quad \frac{\cos^{2}(\theta)}{\cos^{2}(\theta)}$$

$$= \sqrt{q^{2}} \int_{\theta} \left( \cot(\theta) \right) = \frac{q^{2}}{2}, \quad \frac{\cos^{2}(\theta)}{\cos^{2}(\theta)}$$

$$= \sqrt{q^{2}} \int_{\theta} \left( \cot(\theta) \right) = \frac{1}{2} \cos(\theta)$$

$$= \sqrt{q^{2}} \int_{\theta} \left( \cot(\theta) \right) = \frac{1}{2} \cos(\theta)$$

$$= \sqrt{q^{2}} \int_{\theta} \left( \cot(\theta) \right) d\theta \left( \cot(\theta) \right) = \frac{1}{2} \cos(\theta)$$

$$= \sqrt{q^{2}} \int_{\theta} \left( \cot(\theta) \right) d\theta \left( \cot(\theta) \right) d\theta \left( \cot(\theta) \right) d\theta \left( \cot(\theta) \right)$$

$$= \sqrt{q^{2}} \int_{\theta} \left( \cot(\theta) \right) d\theta \left( \cot(\theta) \right) d\theta$$

$$\begin{cases} Q_{+} = \{ 2 \text{ Tom}(\Theta) \\ P_{+} = \{ 2 \text{ Tom}(\Theta) \} \end{cases} \qquad \begin{cases} H_{+} = \{ 2 \text{ Tom}(P_{+})^{2} \\ H_{+} = \{ 2 \text{ Tom}(P_{+}) \} \end{cases}$$

$$\begin{cases} H_{+} = \{ 2 \text{ Tom}(P_{+}) \\ H_{+} = \{ 2 \text{ Tom}(P_{+}) \} \end{cases}$$

$$\begin{cases} H_{+} = \{ 2 \text{ Tom}(P_{+}) \\ H_{+} = \{ 2 \text{ Tom}(P_{+}) \} \end{cases}$$

$$\begin{cases} H_{+} = \{ 2 \text{ Tom}(P_{+}) \\ H_{+} = \{ 2 \text{ Tom}(P_{+}) \} \end{cases}$$

$$. \left[ H_{-} = - \Lambda_{-} \times D \right]$$

$$|P_{z} = \int \frac{1}{2} \left( \frac{1}{2} \left( \frac{1}{2} \right) \right) |P_{z} = \int \frac{1}{2} \left( \frac{1}{2} \left( \frac{1}{2} \right) \right) |P_{z} = \int \frac{1}{2} \left( \frac{1}{2} \left( \frac{1}{2} \right) \right) |P_{z} = \int \frac{1}{2} \left( \frac{1}{2} \left( \frac{1}{2} \right) \right) |P_{z} = \int \frac{1}{2} \left( \frac{1}{2} \left( \frac{1}{2} \right) \right) |P_{z} = \int \frac{1}{2} \left( \frac{1}{2} \left( \frac{1}{2} \right) \right) |P_{z} = \int \frac{1}{2} \left( \frac{1}{2} \left( \frac{1}{2} \right) \right) |P_{z} = \int \frac{1}{2} \left( \frac{1}{2} \left( \frac{1}{2} \right) \right) |P_{z} = \int \frac{1}{2} \left( \frac{1}{2} \left( \frac{1}{2} \right) \right) |P_{z} = \int \frac{1}{2} \left( \frac{1}{2} \left( \frac{1}{2} \right) \right) |P_{z} = \int \frac{1}{2} \left( \frac{1}{2} \left( \frac{1}{2} \right) \right) |P_{z} = \int \frac{1}{2} \left( \frac{1}{2} \left( \frac{1}{2} \right) \right) |P_{z} = \int \frac{1}{2} \left( \frac{1}{2} \left( \frac{1}{2} \right) \right) |P_{z} = \int \frac{1}{2} \left( \frac{1}{2} \left( \frac{1}{2} \right) \right) |P_{z} = \int \frac{1}{2} \left( \frac{1}{2} \left( \frac{1}{2} \right) \right) |P_{z} = \int \frac{1}{2} \left( \frac{1}{2} \left( \frac{1}{2} \right) \right) |P_{z} = \int \frac{1}{2} \left( \frac{1}{2} \left( \frac{1}{2} \right) \right) |P_{z} = \int \frac{1}{2} \left( \frac{1}{2} \left( \frac{1}{2} \right) \right) |P_{z} = \int \frac{1}{2} \left( \frac{1}{2} \left( \frac{1}{2} \right) \right) |P_{z} = \int \frac{1}{2} \left( \frac{1}{2} \left( \frac{1}{2} \right) \right) |P_{z} = \int \frac{1}{2} \left( \frac{1}{2} \left( \frac{1}{2} \right) \right) |P_{z} = \int \frac{1}{2} \left( \frac{1}{2} \left( \frac{1}{2} \right) |P_{z} = \int \frac{1}{2} \left( \frac{1}{2} \left( \frac{1}{2} \right) \right) |P_{z} = \int \frac{1}{2} \left( \frac{1}{2} \left( \frac{1}{2} \right) |P_{z} = \int \frac{1}{2} \left( \frac{1}{2} \left( \frac{1}{2} \right) |P_{z} = \int \frac{1}{2} \left( \frac{1}{2} \left( \frac{1}{2} \right) |P_{z} = \int \frac{1}{2} \left( \frac{1}{2} \left( \frac{1}{2} \right) |P_{z} = \int \frac{1}{2} \left( \frac{1}{2} \left( \frac{1}{2} \right) |P_{z} = \int \frac{1}{2} \left( \frac{1}{2} \left( \frac{1}{2} \right) |P_{z} = \int \frac{1}{2} \left( \frac{1}{2} \left( \frac{1}{2} \right) |P_{z} = \int \frac{1}{2} \left( \frac{1}{2} \left( \frac{1}{2} \right) |P_{z} = \int \frac{1}{2} \left( \frac{1}{2} \left( \frac{1}{2} \right) |P_{z} = \int \frac{1}{2} \left( \frac{1}{2} \left( \frac{1}{2} \right) |P_{z} = \int \frac{1}{2} \left( \frac{1}{2} \left( \frac{1}{2} \right) |P_{z} = \int \frac{1}{2} \left( \frac{1}{2} \left( \frac{1}{2} \right) |P_{z} = \int \frac{1}{2} \left( \frac{1}{2} \left( \frac{1}{2} \right) |P_{z} = \int \frac{1}{2} \left( \frac{1}{2} \left( \frac{1}{2} \right) |P_{z} = \int \frac{1}{2} \left( \frac{1}{2} \left( \frac{1}{2} \right) |P_{z} = \int \frac{1}{2} \left( \frac{1}{2} \left( \frac{1}{2} \right) |P_{z} = \int \frac{1}{2} \left( \frac{1}{2} \left( \frac{1}{2} \right) |P_{z} = \int \frac{1}{2} \left( \frac{1}{2} \left( \frac{1}{2} \right) |P_{z} = \int \frac{1}{2} \left( \frac{1}{2} \left( \frac{1}{2} \right) |P_{z} = \int \frac{1}{2} \left( \frac{1}{2} \left( \frac{1}{2} \right) |P_{z} = \int \frac{1}{2} \left( \frac{1}{2} \left( \frac{1}{2} \right) |P_{z} = \int \frac{1}{2} \left( \frac{1}{2} \left( \frac{1}{2} \right$$

$$H = N_{+}J - N_{-}D + N_{-}I$$

Dely depends on action variables

| 
$$J = \frac{\partial H}{\partial \Theta} \iff J = O \implies Action is cot$$

|  $\dot{\Theta} = + \frac{\partial H}{\partial J} \implies \dot{\Theta} = \mathcal{N}_{+}$ 

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· J transins est

$$W_1 = W_0 \rightarrow Lower$$
 $W_2 = \sqrt{3}W, \rightarrow Uyrer$ 
 $= 2,7$ 
Proming