Symmetry and Conservation Physics
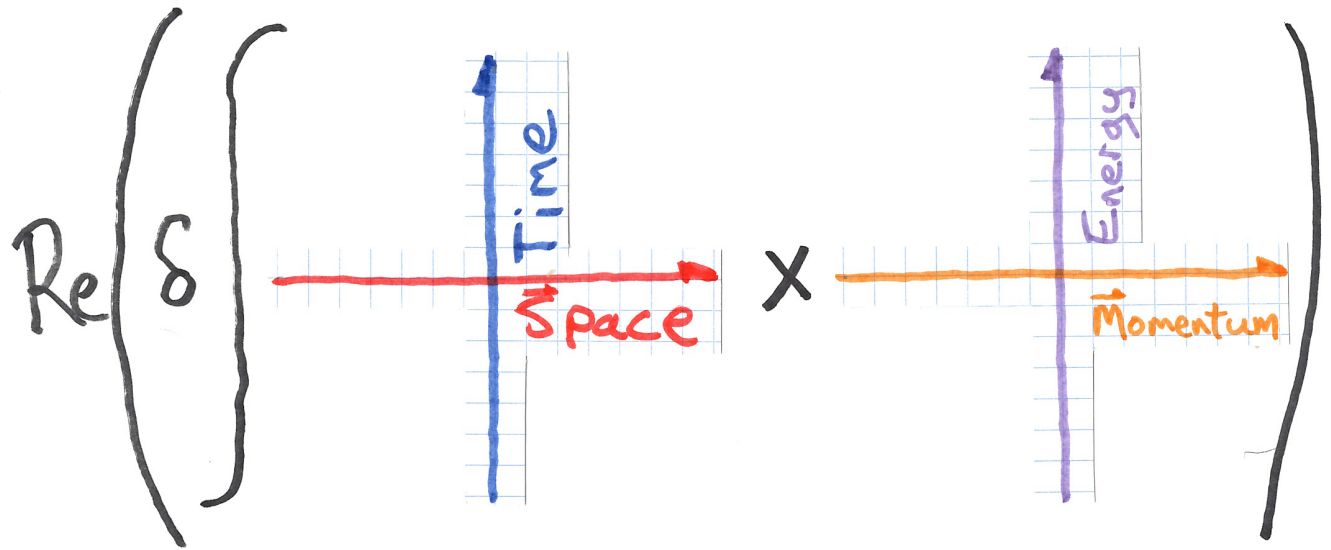
Find a symmetry that leaves the action unchanged, there is a conservatin law.

$$\delta \text{ Action - Phase} \equiv -\delta \int (dt, d\vec{R}) \times (E, \vec{P})$$

$$= -\delta \int (dt, d\vec{R}) \, m \left(\frac{dt}{d\tau}, \frac{d\vec{R}}{d\tau} \right)$$

$$= -\delta m \int \left(\frac{(dt^2 - dR^2)}{d\tau}, 2\frac{d\vec{R}}{d\tau} \, dt \right)$$

$$= \left(\delta S, \; \delta 2\frac{d\vec{R}}{d\tau} dt \right)$$

Variations on the Action   the Phase — more physics

My proposal for more physics is to work with the phase terms to complete the stories in physics.