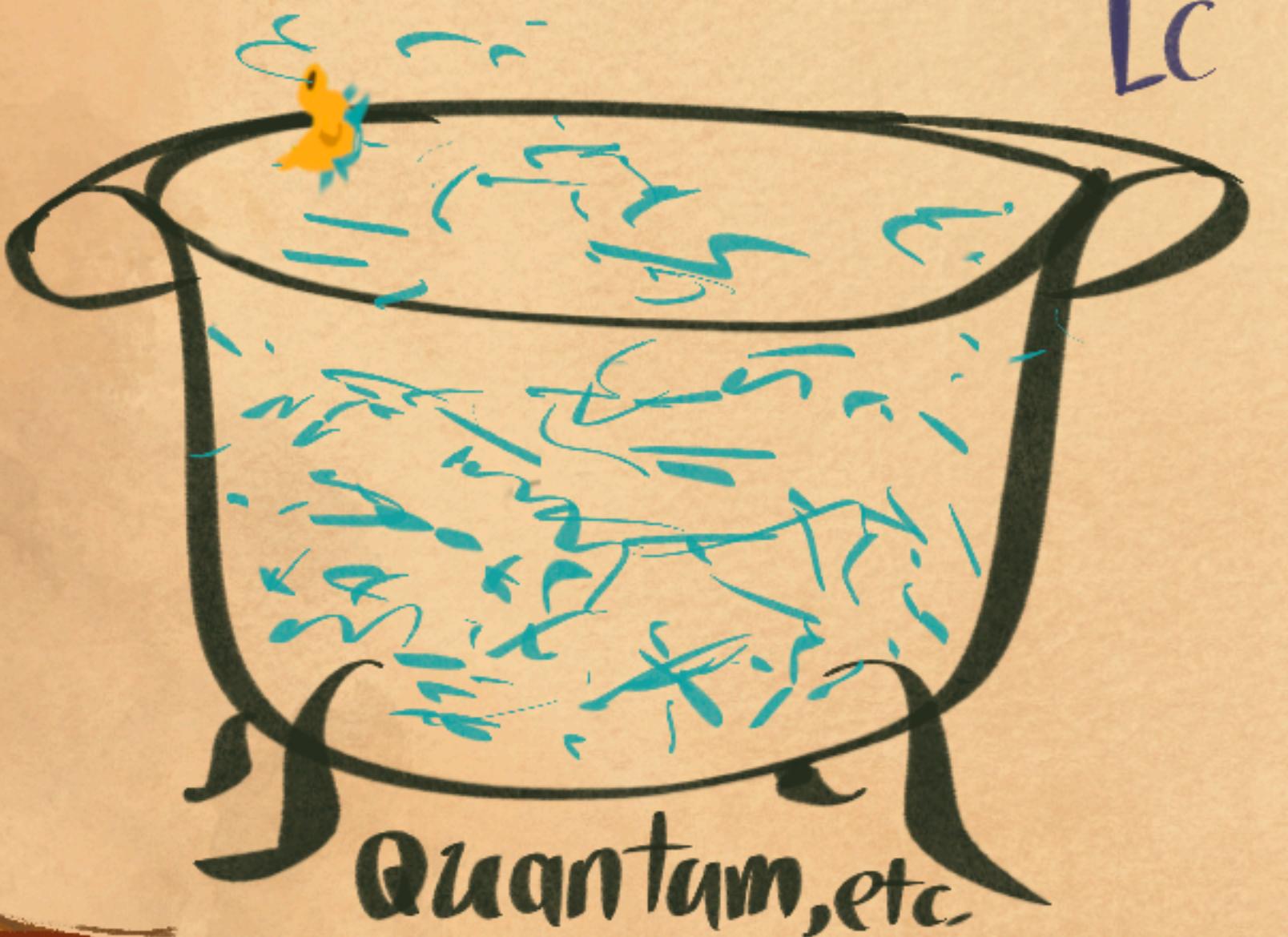




High Energy
complicated

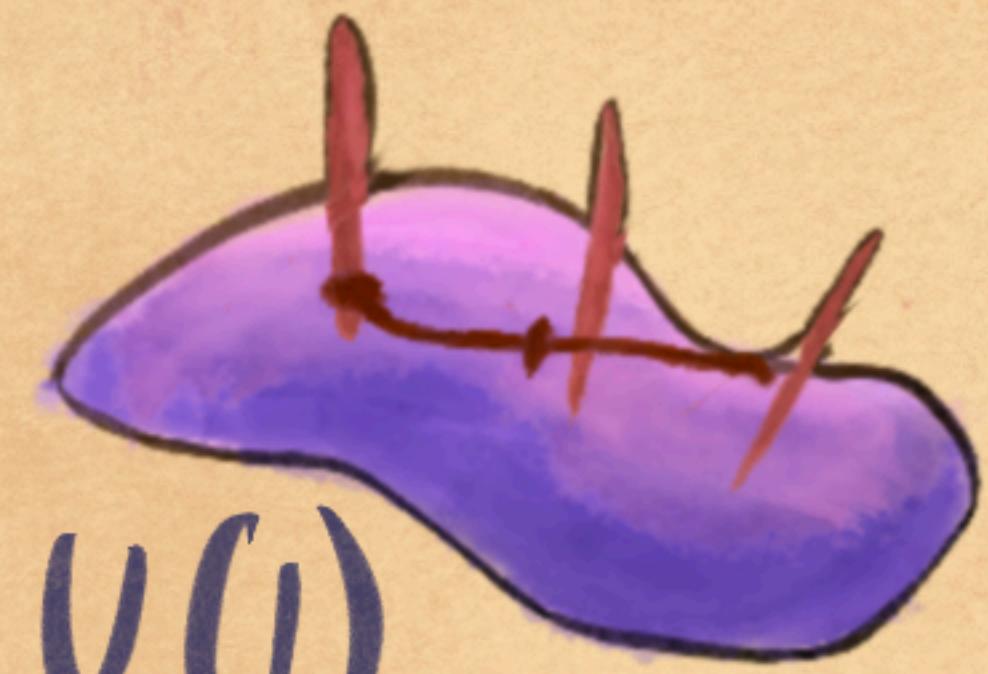


$SU(2)$



Quantum, etc

Low Energy
simple (r)



$U(1)$

Renormalization

$$\begin{bmatrix} a & b \\ c & d \end{bmatrix}$$

$$\begin{bmatrix} e^{i\theta} \\ e^{-i\theta} \end{bmatrix}$$

