

L. *Schrödinger's Equation:*

$$i\hbar \frac{\partial \psi}{\partial t} = -\frac{\hbar^2}{2m} \nabla^2 \psi + V\psi$$

M. *Dirac Equation:*

$$(i \mathcal{D} - m) \psi = 0$$

N. *Atiyah-Singer Theorem for Twisted Dirac Operator:*

$$\dim \ker \mathcal{D}_E - \dim \operatorname{coker} \mathcal{D}_E = \int_M \hat{A}(M) \cdot ch(E)$$