



Physics of Neutral Mesons New physics(at the time) of neutral particles and antiparticles K^{0} and \bar{K}^{0} Interacted differently with weak and strong force. Different allowed quantum states Strong force: energy/mass of the particle Weak force: how it decays The Schrödinger equation, equation that explains the mass/energy and decay of the particle $i \frac{\partial}{\partial t} \psi = \begin{pmatrix} M & M_{12} \\ M_{12}^{*} & M \end{pmatrix} - \frac{i}{2} \begin{pmatrix} \Gamma & 0 \\ 0 & \Gamma \end{pmatrix} \psi$

























