

APPLICATIONS IN PARTICLE PHYSICS

First representation of the synthesis of the neutron from the Hydrogen atom in the core of a star

$$\mathbf{p}^+ + \mathbf{e}^- \longrightarrow \mathbf{n} + ?. \quad \mathbf{E}_{\mathbf{n}} - (\mathbf{E}_{\mathbf{p}} + \mathbf{E}_{\mathbf{e}}) = 0.782\text{MeV}] \quad (1.65c)$$

$$[\frac{\hat{\mathbf{p}}^2}{\mu} - \mathbf{V}(\mathbf{r})] \hat{\times} |\hat{\psi} \rangle = -\mathbf{E} \times |\hat{\psi} \rangle$$

$$(\hat{\Xi}^{\mu\nu} \hat{\times} \hat{\mathbf{p}}_{\mu} \hat{\times} \hat{\mathbf{p}}_{\nu} - \hat{\mathbf{m}}^2 \hat{\times} \hat{\mathbf{c}}^2) \hat{\times} |\hat{\psi}(\mathbf{x}) \rangle \geq = (\hat{\eta}^{\mu\nu} \times \hat{\partial}_{\mu} \hat{\partial}_{\nu} - \mathbf{m}^2 \times \mathbf{V}_{\mathbf{max}}^2) \times |\hat{\psi}(\mathbf{x}) \rangle = \mathbf{0}.$$

R. M. Santilli, ICTP communication IC/91/47 (1992)
<http://www.santilli-foundation.org/docs/Santilli-150.pdf>

R.M. Santilli, Chinese J. System Engineering and Electronics Vol. 6, 177-199 (1995)
<http://www.santilli-foundation.org/docs/Santilli-18.pdf>