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The fractional Schrödinger equation, a fundamental equation of fractional quantum mechanics, has the following form: 
$$i \hbar \frac{\partial \psi(\mathbf{r}, t)}{\partial t} = D_{\alpha} \left( -\hbar^2 \Delta \right)^{\alpha} \psi(\mathbf{r}, t) + V(\mathbf{r}, t) \psi(\mathbf{r}, t).$$

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