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$$i\hbar \frac{\partial \psi(\mathbf{r}, t)}{\partial t} = D_{\alpha} \left(-\hbar^2 \Delta \right)^{\frac{\alpha}{2}} \psi(\mathbf{r}, t) + V(\mathbf{r}, t) \psi(\mathbf{r}, t)$$

Fractional calculus - Wikipedia

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Fractional Calculus and Fractional Differential Equations

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