

$$G_{rr} = R_{rr} - \frac{1}{2} R g_{rr} = \frac{8\pi G}{c^3} T_{rr}$$

$$S_B = \frac{k_B 4\pi G}{hc} M^2$$

$$\Psi(x) = \frac{1}{\sqrt{k}} (A_+ e^{ikx} + A_- e^{-ikx}) \quad x < 0$$

$$O = \frac{24\pi^4 L^4}{T^4 c^2 (1-c^2)}$$

$$k = \sqrt{2mE/\hbar}$$

$$R_{rr} - \frac{1}{2} R g_{rr} + \Lambda g_{rr} = \frac{8\pi G}{c^3} T_{rr}$$

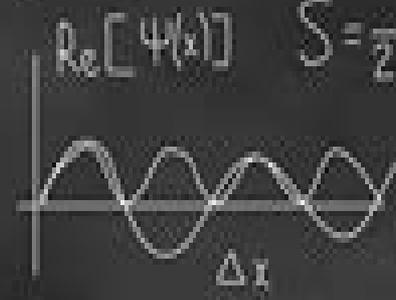


$$S = \frac{e^2 k A}{4\hbar G}$$

$$H = \frac{P P}{2m} + V(x)$$

$$S = \frac{1}{2k} \int R \sqrt{-g} d^4x$$

$$P = -i\hbar \nabla$$



$$L = \text{tr} \left\{ \frac{1}{g} F_{\mu\nu} F^{\mu\nu} - i\lambda \Gamma^{\mu} D_{\mu} \lambda \right\}$$

$$H|\psi(t)\rangle = i\hbar \frac{\partial}{\partial t} |\psi(t)\rangle$$

$$\frac{\delta(k_1 \cdot k_2)}{k_1^2}$$

$$E = mc^2$$

$$E^2 = (pc)^2 + (mc^2)^2$$

$$\Gamma = \frac{\theta}{2\pi} + \frac{4\pi}{g^2}$$

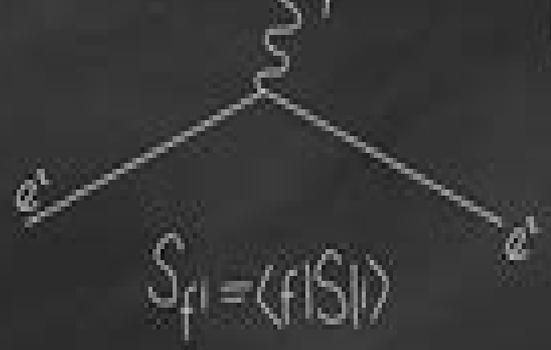
$$I = \int e^{-ax^2/2} dx = \sqrt{\frac{2\pi}{a}}$$

$$E^2 = p^2 c^2 + m^2 c^4$$

$$\frac{1}{c^2} \frac{\partial^2}{\partial t^2} \psi - \nabla^2 \psi + \frac{m^2 c^4}{\hbar^2} \psi = 0$$

$$p = \hbar k = \frac{h\nu}{c} = \frac{h}{\lambda}$$

$$A_{ij} = \frac{8\pi h \nu^2}{c^3} B_{ij}$$



$$S_{fi} = \langle f | S | i \rangle$$

$$S = \frac{1}{2} \int d^4x \left( R - \frac{F^2}{8M^2} \right)$$



$$U = \int_{x_1}^{x_2} V(x, t) dt = \int_{x_1}^{x_2} \frac{\partial u}{\partial t} dW$$

# Theoretical Physics

**David Kirk**



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