

Fine Structure Constant

The fine structure constant is a fundamental physical constant that measures the strength of the electromagnetic interaction between charged particles.

$$\alpha = \frac{1}{4\pi\epsilon_0} \frac{e^2}{\hbar c} \approx 0.0072973525693 \approx \frac{1}{137}$$

- e is the elementary charge,
- ϵ_0 is the vacuum permittivity
- $\hbar$ is the reduced Planck constant
- c is the speed of light in vacuum

The Fine Structure Constant

Lei Huang



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