

Quantum mechanics, what even is it ?

Nobody really understands the core ideas.

However, here is some math that works *pretty darn well*

$$\langle \varphi | \varphi \rangle = 1$$
$$\sum_i |\phi_i\rangle\langle\phi_i| = \mathbb{1} \qquad \int |\phi_i\rangle\langle\phi_i| \, \mathrm{d}i = \mathbb{1}$$