Stern-Gerlach August 18

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1 Bras, Kets, and Operations

Continuing our analogy to electromagnetic waves, we can write these waves as vectors such

$$\vec{E} = \{ 1 \ E_0 \hat{x} cos(kz - \omega t) = R_e[E_0 \hat{x} j e^{(i(kz-\omega t)} |\langle \rangle +) 2 E_0 \hat{x} cos(kz - \omega t) = R_e[E_0 \hat{y} j e^{(i(kz-\omega t)} |\langle \rangle -) \tag{1}$$

2 Section Name