# 1 Definition

$$(|\psi\rangle, |\phi\rangle) \tag{1}$$

Where $|\psi\rangle$ and $|\phi\rangle$ are vectors in a Vector space.

# 2 Properties

Right linearity

$$(|\psi\rangle, |\phi\rangle) = (|\psi\rangle, \sum_i \lambda_i |\phi_i\rangle) = \sum_i \lambda_i (|\psi\rangle, |\phi_i\rangle) \tag{2}$$