

The diagram illustrates the decomposition of a state $|\Phi_0\rangle$ into two components. It consists of two parts separated by a vertical line. The left part shows $|\Phi_0\rangle$ as a horizontal rectangle with a black border, divided into a 4x4 grid of smaller squares. A red horizontal bar spans the width of the rectangle, and a red vertical bar spans its height. The right part shows $|\Phi_0\rangle$ as a horizontal rectangle with a black border, divided into a 4x4 grid of smaller squares. A red horizontal bar spans the width of the rectangle, and a red vertical bar spans its height. The two parts are connected by a vertical line.