

Diagram illustrating the decomposition of a quantum state into a sum of tensor products of states, labeled (1).

The diagram shows three rows of spheres, each representing a state, connected by inclusion symbols (\subseteq).

Row 1: A sphere with points x and y and a red arc a is included in a sphere with points x and y and a green arc h . This is included in a sphere with points x and y and a blue arc g . This is included in a sphere with points x and y and a red arc f .

Row 2: A sphere with points x and y and a red arc a is included in a sphere with points x and y and a blue arc b . This is included in a sphere with points x and y and a cyan arc c . This is included in a sphere with points x and y and a red arc f .

Row 3: A sphere with points x and y and a blue arc b is included in a sphere with points x and y and a cyan arc c . This is included in a sphere with points x and y and a red arc f .

Bottom Row: The state 0_{0000} is shown with an upward arrow pointing to the first sphere of the third row. A red arrow points from 0_{0000} to the state 0^{0000} , which is included in the first sphere of the second row. This is included in the first sphere of the first row.

The diagram illustrates the decomposition of the state 0_{0000} into a sum of tensor products of states, labeled (1).