

Sample question from ACEPhysics activity:

C. Given a two-qubit state

$$\frac{1}{\sqrt{2}}(|01\rangle - |10\rangle)$$

is it correct to say that the probability of measuring either a $|0\rangle$ or $|1\rangle$ for qubit 1 is 50-50?

Yes, the probability is 50-50

No, qubit 1 cannot be 50-50

Why is it incorrect to say that the state of the qubit is the following?

$$\frac{1}{\sqrt{2}}(|0\rangle - |1\rangle)$$

Type your response here

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