

A diagram illustrating a qubit. A dark blue circle is centered on a white background. A thick red sine wave oscillates horizontally across the entire image, passing through the blue circle. Inside the blue circle, there are two horizontal white lines. The top line is aligned with the text $|1\rangle$ and the bottom line is aligned with the text $|0\rangle$.

$|1\rangle$

$|0\rangle$