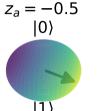
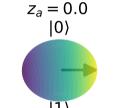
(a) Analytical Solution

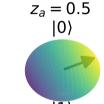
$$z_a = -1.0 \qquad z_a = -0.9$$

$$|0\rangle \qquad |0\rangle$$















 $z_a = 1.0$