Suppression of T_1 -type decoherence of phase qubits using uncollapsing and quantum error detection/correction Kyle Keane¹ and Alexander N. Korotkov² ¹Department of Physics and Astronomy, University of California, Riverside ²Department of Electrical Engineering, University of California, Riverside

Motivation:

Energy Relaxation:



Uncollapsing:







$$\rho_1 = \frac{\left|1\right\rangle \left\langle 1\right| + \left|0\right\rangle \left\langle 0\right|}{2}$$