

Abstract Submitted
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Performance of error suppression schemes for adiabatic quantum computation in the presence of Markovian noise MILAD MARVIAN, DANIEL LIDAR, None — We investigate the performance of error suppression schemes for adiabatic quantum computation. Assuming a Markovian environment and using an adiabatic master equation we compare the rate of excitation from the ground subspace of the encoded Hamiltonian during the evolution to that of the unprotected Hamiltonian. For different forms of Markovian environments such as sub-Ohmic, Ohmic and super-Ohmic we identify the parameter thresholds for which encoding starts exhibiting its benefits.

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None

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