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Qubit coherence simulation

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Summary

Quantum computing performance depends on the properties of the underlying physical qubits. The depth of an algorithm is limited by the decoherence of the qubits. In this respect the design of algorithms that quantify the decoherence of qubits is particularly of interest. In order to fit the data qubit models are necessary. We present the performance of our SU2 C++ package for polymorphically implemented SU(2) scalars, applied to spin-echo modelling, against the measurements of the IBM armonk qubit.

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