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Research Article

Quantum device circuits made of trapped ions

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quantum computing; trapped ions

Abstract

We intend to give an insight into one kind of circuit, the rating of which is based on quantum effects. Therefore, the role of quantum effects is changed from undesired effects to the basic effect of circuit performance. The design of coherent quantum device circuits and the development of the software of quantum information processing depends on the rules of quantum mechanics. One kind of quantum information processing is called 'quantum computing' (q.c.). The prospect of quantum computing consists for example of solving problems. Nevertheless, for the far future we can only expect a special purpose computer instead of a general purpose machine.

The goal of this paper is to provide insights into the current development of a trapped ion quantum information processor, which is a prominent candidate for a successful working quantum computer. The information is represented by the quantized state of the related quantum device circuit. Based on the time-dependent Schrödinger-equation the system's state changes continuously in time like the state of an analog circuit. The system can be controlled by means of precise sequences of laser pulses. The laser field is a time dependent component of the quantum system. We investigate ways of how to implement the mathematical concept of q.c. in the linear ion trap (Paul-trap). The final state of the quantum system represents the outcome of an implemented single quantum gate or more complex quantum algorithm. In order to synthesize quantum states the designer of sequences of laser pulses needs an efficient simulation tool. We will show the implementation of a quantum gate using our trapped ion simulator (TrioS). The leakage and the gate accuracy are optimized by parameter variations. Copyright © 2001 John Wiley & Sons, Ltd.

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