Netural Atom Quantum Computation introduction

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main reference

1). Henriet, Loic, Lucas Beguin, Adrien Signoles, Thierry Lahaye, Antoine Browaeys, Georges-Olivier Reymond, and Christophe Jurczak. **Quantum Computing with Neutral Atoms**. Quantum 4 (21 September 2020): 327. https://doi.org/10.22331/q-2020-09-21-327.

2). Bluvstein, Dolev, Harry Levine, Giulia Semeghini, Tout T. Wang, Sepehr Ebadi, Marcin Kalinowski, Alexander Keesling, et al. **A Quantum Processor Based on Coherent Transport of Entangled Atom Arrays**. Nature 604, no. 7906 (21 April 2022): 451–56. https://doi.org/10.1038/s41586-022-04592-6.

Outline

1. **principle**
   - control
   - operation
2. **device**
3. **computation**
   - compilition
   - eror correction

optical tweezers

1. First item
2. Second item
3. Third item

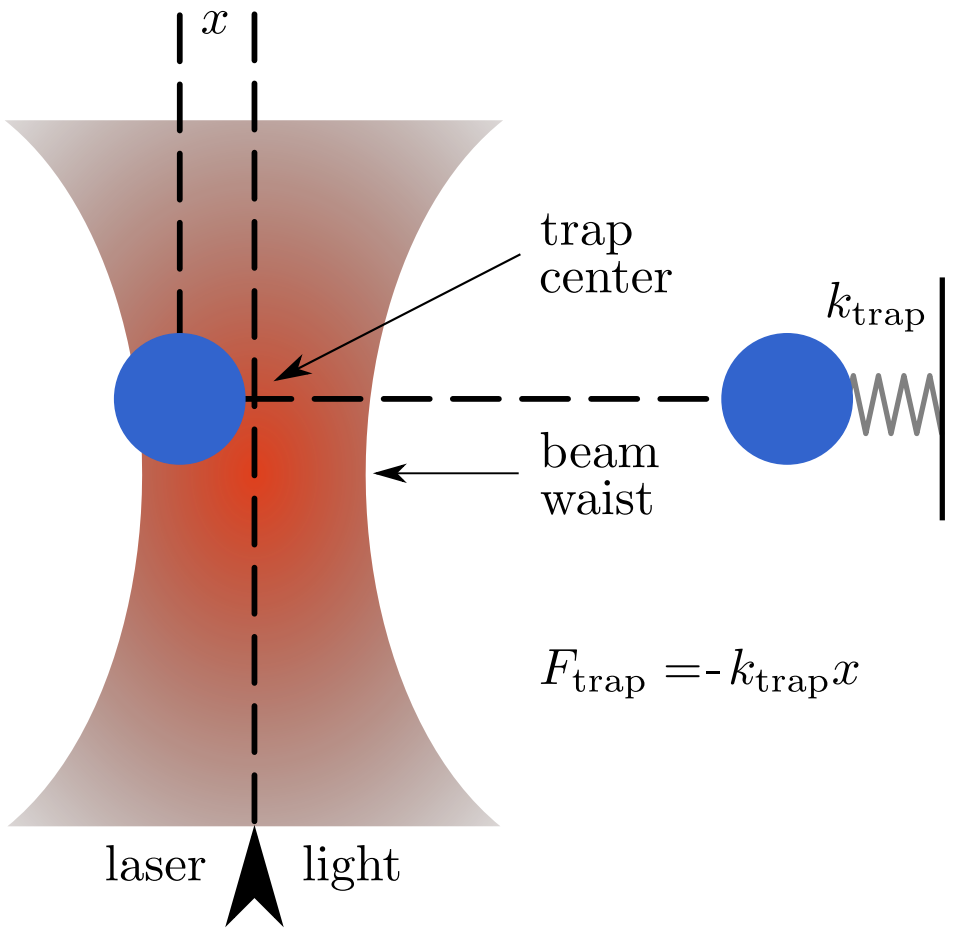

Figure: Figure Caption

histroy

optical lattice

work flow

readout

single-qubit gate

multi-qubit gate

Hamilition operation

summarize

Outline

1. principle
   - control
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2. **device**
3. computation
   - compilition
   - eror correction

breakthrough

Outline

1. principle
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3. **computation**
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set up

discussion