

## Deterministic Entanglement Of Trapped Ion Spin Qubits

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### Deterministic Entanglement Of Trapped Ion

Chinese researchers realized an elementary link of a quantum repeater based on absorptive quantum memories (QMs) and demonstrated the multiplexed quantum repeater for the first time. On June 2nd, 2021 ...

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### Chinese Researchers Construct a Multiplexed Quantum Repeater Based on Absorptive Quantum Memories

According to Chris Monroe, trapped-ion computing had its real beginnings ... At the time, Monroe was experimenting with quantum entanglement to improve atomic clock performance.

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### IonQ's Virtual Financial Analyst Day : An Inside Look Part One

Here, David Lucas and collaborators use amplitude-shaped laser pulses to drive trapped calcium ions in a way that ensures gate operation that is robust against optical phase fluctuations. They ...

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### Trapped ions get up to speed

The fundamental task of a quantum network is to distribute quantum entanglement ... ion-doped crystals. For this kind of QMs, the entanglement source can be flexibly selected, including ...

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### USTC constructs a multiplexed quantum repeater based on absorptive quantum memories

Quantum repeaters that can store multiplexed signals; provide heralded signals of entanglement; and operate at telecommunications wavelengths have been developed by two independent research teams.

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### New quantum repeaters could enable a scalable quantum internet

a trapped ion, or the spin of an electron. Beyond just  $|0\rangle$  and  $|1\rangle$ , the quantum mechanical description allows for a qubit state that is a linear combination or superposition of  $|0\rangle$  and  $|1\rangle$ . Quantum ...

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### Where Imperfections Lead To Opportunity

19. P. C. Haljan, M. Acton, K.-A. Brickman, P. J. Lee, L. Deslauriers, and C. Monroe, "Entanglement of Trapped-Ion Clock States," to be published, Phys. Rev. A ...

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### Paul Haljan Publications

These computers work because of two phenomena: superposition and entanglement ... is the case with universal quantum computers based on ion traps or other technology, or because it is possible ...

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### Quantum Computing Hardware Teardown

Controlled interactions and entanglement – required for scalable ... in two internal states of a trapped atom or ion, cooled to its vibrational ground state. Single-qubit operations are effected ...

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### Quantum leaps in small steps

Although the scrambling process is deterministic – that means ... is its information trapped in the black hole forever, or does it somehow manage to escape? That nasty e-mail, your wrote ...

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### Black hole data scrambler may be unsolvable

Notably, the atoms are also able to pass the test for true entanglement ... on trapped atomic ions, one of the leading technologies for building a quantum computer. "Each trapped ion (a single ...

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### Scientists Have Built a Functional 'Hybrid' Logic Gate for Use in Quantum Computers

Qubits can have different states and properties such as superposition and entanglement and can represent 1 and 0 ... Meanwhile, Honeywell Quantum Solutions is based on trapped-ion qubit fabrication ...

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### QaaS: A quantum computing service that may, or may not, be there

So, a quantum system doesn't have to necessarily be a trapped ion, as in the case of ... but without the need for quantum entanglement, said Sellier, and without the need for masses of qubits ...

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