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Liquid helium could be used as a medium in future quantum computers. Electrons could float above the liquid helium to form the basis of the computer.

Explanation

Quantum computers use quantum particles, like electrons, to process information. To create a qubit, scientists must control the quantum properties of these particles. For example, they can manipulate the spin of electrons, which is similar to the spin of a top.



How quantum computers could be used

Quantum computers could be used in many applications, including:

- Oil and gas: Quantum computers could optimize the sourcing, extraction, processing, and logistics of oil and gas.
- Rocket propulsion: Quantum computers could help stabilize cyclic ozone, a highenergy-density molecule that could be used as a rocket propellant.
- Carbon dioxide removal: Quantum computers could help remove carbon dioxide from the atmosphere.
- **Pharmaceuticals**: Quantum computers could help design more efficient pharmaceuticals.

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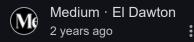
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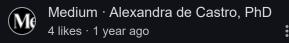
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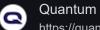
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IBM

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MIT Technology Review

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