

# Physics of superconductors

**Springer - A wave in mysterious superconductors was spotted for the first time**



Description: -

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Superconductors

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## Superconductivity

This spin-triplet superconductor would be a major breakthrough for quantum computing because it can be used to create Majorana fermions, a unique particle which is its own antiparticle. That means electrons can pass through them more easily, enabling superconductivity.

## High

These magnets are currently in use in magnetic resonance imaging MRI , which produces high-quality images of the body interior without dangerous radiation. Si said the associations with superfluid helium-3 pairing states have helped he and Nica advance a more complete description of pairing states in both iron-based and heavy-fermion superconductors.

## Phys. Rev. 108, 1175 (1957)

In 1953, in an analysis of the thermal of superconductors, it was recognized that the distribution of energies of the free electrons in a superconductor is not uniform but has a separation called the. Experiments have shown that at this point, quantum phenomena can be observed at the macro scale. The problem is that is still very cold and in the range of liquid helium temperatures.

## UBC

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## Phys. Rev. 108, 1175 (1957)

Type I superconductors have limited practical applications because the strength of the critical magnetic field needed to destroy the superconductivity is quite low.

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## Related Books

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