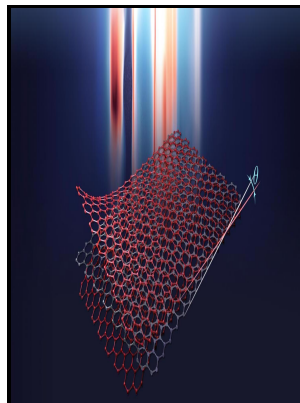


High temperature superconductivity

Springer-Verlag - [2010.00160] High



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This superconducting phase is observed in oxygen reduced thin films created by the pulsed laser deposition of NdO. Elsewhere, scientists are to build current leads for research magnets.

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Funded by the National Science Foundation DMR-1644779 and the State of Florida.

High

Iron-based superconductors contain layers of and a —such as or —or a. Of important is further to extract access hydrogen from the reduction with CaH₂, otherwise topotactic hydrogen may prevent superconductivity.

High

The other superconducting cuprates have another structure: they have a cell. Just as all known conventional superconductors are strong phonon systems, all known high- T_c superconductors are strong spin-density wave systems, within close vicinity of a magnetic transition to, for example, an antiferromagnet.

High

Single models are generally considered to be enough to describe the electronic properties. All high-temperature superconductors require some type of cooling system.

High

T_c values range up to 38 K.

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For general feedback, use the public comments section below please. Contrary to previous assumptions, it now turns out that this material is also a superconductor and that superconductivity is closely related to strange metal behavior. Both individuals and organizations that work with arXivLabs have embraced and accepted our values of openness, community, excellence, and user data privacy.

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