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Springer (free electron) theory:

Electrons in metals: Fermi energy,

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Let us start our search for a simple

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Springer by taking a piece of metal and noting the empirical fact (true at room temperature) that there are no electrons beyond the boundaries of the metal. So there ...

~~Chapter 6: The Free Electron Theory
of Metals~~

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A scientist from the Division of Quantum Condensed Matter Physics at the University of Tsukuba has formulated a new theory of superconductivity. Based on the calculation of the 'Berry connection', ...

~~A new theory of superconductivity~~

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In this 1939 text, Wilson shows his aptitude for scientific thought and writing, providing a fluent and informative introduction to the electron theory of metals. His aim was to make clear the ...

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Thus, intrinsic, pure, semiconductors are relatively good insulators as compared to metals. (a) An intrinsic semiconductor is an insulator having a complete electron shell. (b) However, thermal energy ...

~~Electrons and "holes"~~

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The study marks a major step toward creating a system for studying quantum phase transitions. In 1934, physicist Eugene Wigner made a theoretical prediction based on quantum mechanics that for 87 ...

~~Quantum Melting of Wigner Crystals:~~

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~~Creating a System for Studying Quantum Phase Transitions~~

A researcher from the University of Tsukuba has introduced a new theory for superconductivity that can better explain the results of recent experiments with high-temperature superconductors. By ...

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~~A super new theory~~

The U.S. Department of Energy has granted Critical Decision 1 for the Electron-Ion Collider, a one-of-a-kind nuclear physics research facility to be built at Brookhaven Lab.

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~~Electron-Ion Collider Achieves Critical
Decision 1 Approval~~

Kagome metals are named after a traditional Japanese basket-weaving technique that produces a lattice of interlaced symmetrical triangles. Physicists are interested in this configuration (known as a ...

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~~Unusual superconductivity appears in
a Kagome metal~~

Image shows an electron
ptychographic reconstruction of a
praseodymium orthos scandate (PrScO_3) crystal ... which researchers
developed in theory in the 1960s. But

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because of limitations in ...

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Image Ever Captured~~

The past few years before the
Covid-19 pandemic saw the rise of
contactless payment systems getting
popular in China and other countries.

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The announced figure showed that ...

~~Central banks of China, EU, US
moves on crypto, post-pandemic~~
Professor Han and the researchers
used a recently developed "many-
particle" theory ... Hund's metal, we
identified various metallic regimes that

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can naturally occur in generic,
correlated electron ...

~~Defining the Hund physics landscape
of two orbital systems~~

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not cheap, but when it delivers, it can

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nanoprecipitates can simultaneously~~

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~~increase strength and ductility of
structural alloys~~

Researchers have created an unusual new alloy made up of not two, but five different metals, and put it to ... the reduction of CO₂ into CO?" An electron microscope image of a flake of the ...

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catalyst to convert CO₂ into fuels~~

A researcher has introduced a new theory for superconductivity that can better explain the results of recent experiments with high-temperature superconductors. By focusing on the

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'Berry connection,' ...

~~New theoretical model of high-temp
superconductivity: Electrical current
flowing with zero resistance~~

3 Bayerisches Zentrum für
Angewandte Energieforschung ...
crystal pentacene using the method of

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femtosecond electron diffraction
(FED), supported by real-time time-
dependent density-functional theory ...

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