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Electron : Michael Springford :
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Murray Peshkin - Argonne National
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by time-averaged electron polarization (the Knight shift), and the flip-flop mechanism that trades electron and nuclear spins (1, 2). The electron-nuclear interaction has im-portant consequences for quantum informa-tion processing with confined electron spins (3). Any randomness in the Overhauser shift introduces errors in a qubit state, if no ...

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show that the electron transport is ballistic and given by an optimized depletion thickness D_{Depl} which is shorter than the mean free path length. ... M. Springford (Ed.), Electron—A Centenary Volume, Cambridge University Press, Cambridge ...

Electron A Centenary Volume

This centenary volume celebrates the discovery of the electron in 1897, an event which had a profound effect on scientific thought and development in the twentieth century, as well as on our everyday lives.

Control and Detection of Singlet- Triplet Mixing in a ...

This book marks the centenary of the discovery of the electron by J. J. Thomson in 1897, an event which occurred at a great turning point in the history of scientific ideas, and the impact of which on the development of science in the twentieth century has

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been profound. The electron was the first elementary particle to be discovered.

Electron transport in nanostructures: A key to high ...

An Orbital is not the volume of an electron. An orbital is the volume in space where the probability to find a certain electron is 99%. The electron itself is treated as this probability density in QC, and as a point charge when considered a definite particle. In reality, an electron probably has a volume (since it has a mass, sometimes).

Do electrons have volume? - Quora

The electron is a subatomic particle carrying a negative electric charge. Electrons orbit nuclei of protons and neutrons to make up atoms, bound together by the electromagnetic force. The mass of an electron is approximately $1/1836$ that of a proton, hence electrons contribute less than 0.06% of the mass

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of an atom.

[Electron: A Centenary Volume:](#)

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The search for the true nature of electricity led to the discovery of the electron and the proof that it is a constituent of all atoms. These achievements gave scientists the first definite line of attack on the constitution of atoms and on the structure of matter.

[A small, beautiful centenary | Times](#)

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Cambridge University Press

978-0-521-07889-4 - Electron: A ...

The electron was the first elementary particle to be discovered. It sets the basic scales of energy and length in chemistry and materials science, and its ubiquitous presence to drive electrical and electronic devices in everyday life is familiar to everyone.

The History of the Electron —

Department of Physics

"The electron glue" by B. L. Gyorffy is a manly effort to explain and to proselytise for the modern methods of band theory for calculating and, he argues, for understanding the bonds between atoms.

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quantum chemistry - Electron has volume or not ...

in "Electron: a centenary volume", edited by Michael Springford (Cambridge University Press, 1997) Off-Diagonal Long-Range Order, Restricted Gauge Transformations, and Aharonov-Bohm Effect in Conductors

J. J. Thomson, the Discovery of the Electron, and the ...

A qualitative account of the occurrence and magnitude of superconductivity in the transition metals is presented, with a primary emphasis on elements of the first row. Correlations of the important parameters of the Bardeen-Cooper-Schrieffer theory of superconductivity are highlighted with ...

Electron scattering - Wikipedia

Volume is a property of atoms and molecules, molecules have volume with respect to other molecules because the electron between molecules repel each

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other, but because the protons within the atoms the repelling effect is cancelled out unless the molecules are close enough that the difference in distance between electron to electron vs electron to proton is proportionally a lot larger.

The discovery of the electron: a centenary - IOPscience

J. J. Thomson, the Discovery of the Electron, and the Study of Atomic Structure Overview Late in the nineteenth century physicists were working hard to understand the properties of electricity and the nature of matter. Both subjects were transformed by the experiments of J. J. Thomson, who in 1897 showed the existence of the charged particles that came to be known as electrons.

Electron : a centenary volume (Book, 1997) [WorldCat.org]

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Electron: A Centenary Volume Edited by Michael Springford

[Electron : Michael Springford : 9780521561303](#)

The "life, the universe and the electron" online exhibition (from the Science Museum). Some details of Thomson's 1906 Nobel Prize in Physics (from the Nobel Foundation). Electron: A Centenary Volume , edited by Michael Springford (to be published by Cambridge University Press).

[Einstein: a centenary volume - Albert Einstein, Anthony ...](#)

Electron scattering occurs when electrons are deviated from their original trajectory. This is due to the electrostatic forces within matter interaction or, if an external magnetic field is present, the electron may be deflected by the Lorentz force. This scattering typically happens with solids such as metals, semiconductors and insulators; and is a limiting factor in integrated circuits and

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transistors. The application of electron scattering is such that it can be used as a high resolution mic

Electron: A Centenary Volume: Michael Springford ...

Electron : a centenary volume.

Summary: This book marked the centenary of the discovery of the electron by J. J. Thomson in 1897, an event which occurred at a great turning point in the history of scientific ideas, and the impact of which on the development of science in the twentieth century has been profound.

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