

Quantum Effects

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ABSTRACT: New perspectives of Bohr's planetary model have been shown. The nature of the forces between two spins has been shown up. At the end something about superconductivity has been signalized.

The fact that the planet can revolve around two stars and the electron around a few nuclei in the particle is a success of the Bohr planetary model.

Additionally, it testifies to that this model is correct together with the amendments implicated by the Dirac - Einstein equation.

We have the problem: what is the nature of the forces, which place the anti-parallel spins in the case of two fermions which are at the same position in the space.

It is the force of repulsion of the charges with the same signs, because the spin is the charge in the sense of the Dirac equation.

If the distances are small, these repulsing forces are huge.

The bosons don't manifest this principle because there are the pairs of spins which present the superconducting effect.

There is an inversion of the situation. The Bose - Einstein condensation implicates the superconductivity but it acts at the opposite direction too.