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Atomic physics is the field of physics that studies atoms as an isolated system of electrons and an atomic nucleus. Atomic physics typically refers to the study of atomic structure and the interaction between atoms.

1. Atomic physics underlies the study of astrophysics and solid state physics. It has led to important applications in medicine, communications, lasers, etc., as well as still providing a scientific study of the structure of the atom, its energy states, and its interactions with other particles and with electric and magnetic fields.

2. Atomic physics has proved to be a spectacularly successful application of quantum mechanics, which is one of the cornerstones of modern physics.

3. Atomic physics is the subfield of atomic physics that studies atoms as an isolated system of electrons and an atomic nucleus, while molecular physics is the study of the physical properties of molecules.

4. The term atomic physics is often associated with nuclear power and nuclear bombs due to the synonymous use of atomic and nuclear physics.

Atomic physics is primarily concerned with the arrangement of electrons around the nucleus and the processes by which these arrangements change.

In this lecture, the professor discussed what is atomic physics, how atomic physics has developed, etc.

Instructor: Wolfgang Ketterle
Transcript

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