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**Sinopsis**

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Werner Heisenberg and Richard Feynman find quantum physics fascinating and necessary for understanding the atoms. Albert Einstein dislikes it and Isaac Newton does not understand it, which is not surprising. This is the scenario for animated discussions between five people. Harald Fritzsch brings together Newton and the three great physicists of the 20th century in an imaginary meeting. His "alter ego" Adrian Haller moderates the discussions.

By means of questions and answers the whole cosmos of quantum physics is described in a simple way, easily understandable non-physicists. The beginnings of quantum theory and atomic physics as well as the importance of quantum physics for our daily life \_ these and many more topics are the subjects of the interesting and fascinating discussions.

**Contents:**

Introduction

The Start of Quantum Theory

Atoms, Waves and Particles in Quantum Physics

The Quantum Oscillator

The Hydrogen Atom

The Spin \_ A New Quantum Number

Forces and Particles in Quantum Physics

The Periodic Table

Quantum Theory and the Relativity of Space and Time

Electrons and Photons

Colored Quarks and Gluons

Massive Neutrinos

The Masses of Particles

The Fundamental Constants of Nature

**Readership:** General, students and researchers in physics.

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"This book draws, in broad touches, the glorious picture of modern quantum physics, in its development, from the inception of quantum mechanic in the early 20th century to quark-gluon theory of matter and exciting discoveries at the cutting edge expected to be made at the Large Hadron Collider at CERN. It masterfully explains complex notions in layman terms, adding a personal touch: it is organized as a series of conversations of the author with Newton, Einstein, and Feynman. The reader will acquaint him/herself with geniuses of the 20th century and their perspective on quantum physics."

M Shifman

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