



# The Fundamental Constants: A Mystery of Physics

*Harald Fritzsch*

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# The Fundamental Constants:A Mystery of Physics

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## **The Fundamental Constants:A Mystery of Physics** Harald Fritzsch

The speed of light, the fine structure constant, and Newton's constant of gravity — these are just three among the many physical constants that define our picture of the world. Where do they come from? Are they constant in time and across space? In this book, physicist and author Harald Fritzsch invites the reader to explore the mystery of the fundamental constants of physics in the company of Isaac Newton, Albert Einstein, and a modern-day physicist. The conversation that the three scientists are imagined to have provides an entertaining introduction to the constants and covers topics ranging from atomic, nuclear, and particle physics to astrophysics and cosmology.

### **Contents:**

- The Constants of Nature
- Elementary Interactions Elementary Interactions and Quantum Theory
- Atomic Nuclei and Particles
- Big Accelerators
- Colorful Quarks and Gluons
- The Standard Model
- The Standard Model and the Natural Constants
- The Grand Unification
- In the Garden of San Marino
- On the Road to El Captain Beach
- In Esalen
- At the Stanford Linear Accelerator Center
- A Strange Big Bang

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

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