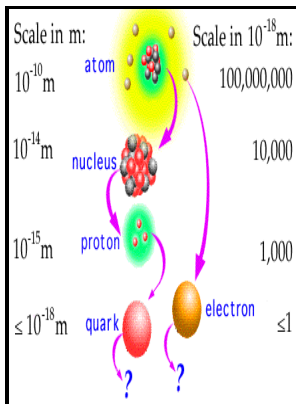


World of atoms and quarks

Twenty-First Century Books - Strange World Of Quarks, Gluons, Described By Physicist



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Notes: Includes bibliographical references (p. 83) and index.
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A Science Odyssey: Atom Builder: Elementary Particles

The book also includes historical accounts of the lives, works, and major achievements of many famous pioneers and Nobel Laureates from 1895 to the present.

[PDF] The World Of Atoms And Quarks

The system of attraction and repulsion between quarks charged with different combinations of the three colors is called , which is mediated by known as ; this is discussed at length below.

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Quarks are never found on their own; they are bound in pairs or threesomes. Owing to a phenomenon known as , quarks are never found in isolation; they can be found only within hadrons, which include such as protons and neutrons and , or in . Up and down quarks have the lowest of all quarks.

Wacky Physics: Why Do Particles Have Flavors?

Also, the force between two quarks becomes larger as they move farther apart, whereas the force between a nucleus and an electron, or two nucleons in a nucleus, grows weaker as their separation increases. A neutron star gives a personal account of its creation and goes on to discuss quasars and other extraordinary astronomical objects, while an iron atom describes its birth in a remote supernova explosion and its series of adventures on Earth, from its early use in wrought iron processes to its time in a human body, and then to its latest misadventures.

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