



Quarks and Gluons: A Century of Particle Charges

M. Y. Han

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Our journey in search of the origin of matter - and, by extension, the origin of the Universe itself - has taken us deeper and deeper inside atoms. First to come into view was the atomic nucleus, and still further downscale the individual protons and neutrons that constitute the nucleus. At least for three decades, nucleons (protons and neutrons) were considered to be our final destination. Then, peering into them, we detected shadows of yet another layer of matter that lurks inside. Unable so far to crack open a nucleon and bring out one of these shadowy objects for observation and measurement, we can only guess what they are. We have named them quarks. We believe that two types of quarks - one named "up" and the other "down" - make up the proton and the neutron. Quarks are held together by a force dubbed the chromo force, represented by particles named gluons, which are just as unseen as quarks. So it is the quarks and gluons that lie at the bottom of all known matter! In this important book, the major developments in atomic, nuclear, particle and quark physics over the past one hundred years are presented in a style that is both accessible to the layperson and of value to the expert. It provides a brief history of particles, charting the discovery of electrons and photons, antimatter, atomic nuclei, strong and weak forces, and quarks and gluons. In particular, it traces the concept of "conserved charges", a phenomenon that is consistently manifested in each of these milestone developments in modern physics.

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Tom Moore:

A lot of people always spent all their free time to vacation or maybe go to the outside with them family members or their friend. Were you aware? Many a lot of people spent they free time just watching TV, or even playing video games all day long. In order to try to find a new activity honestly, that is look different you can read some sort of book. It is really fun for you personally. If you enjoy the book which you read you can spent 24 hours a day to reading a guide. The book Quarks and Gluons: A Century of Particle Charges it is quite good to read. There are a lot of those who recommended this book. These folks were enjoying reading this book. If you did not have enough space to bring this book you can buy the actual e-book. You can m0ore simply to read this book from the smart phone. The price is not to cover but this book possesses high quality.

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