

# 《从夸克、胶子到量子引力学》

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## 内容概要

In August/September 2002, a group of 78 physicists from 50 laboratories in 17 countries met in Erice, Italy, to participate in the 40th Course of the International School of Subnuclear Physics. The purpose of the School was to focus attention on the theoretical and phenomenological developments in gauge theories, as well as in all the other sectors of subnuclear physics. Experimental highlights from the most relevant sources of new data were presented and discussed, including the latest news on theoretical developments in quantizing the gravitational forces. This volume constitutes the proceedings of the School. It is dedicated to the memory of Victor Frederick Weisskopf, a founder — together with John Stewart Bell, Patrick Maynard Stuart Blackett and Isidor Isaac Rabi — of the "Ettore Majorana" Centre for Scientific Culture, this School being the first of its 114 Schools now in existence.

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## 书籍目录

Mini-Courses on Basics Lattice Field Theory and SU(N) Gauge Theories Symmetries and Quasi-Particles in Hot QCD Physics of QCD Instantons Confinement and Duality Probing Grand Unification Through Neutrino Oscillations Leptogenesis and Proton Decay Status of Super String Theory Perturbative Quantum Gravity Proton Structure and Its Flavor Decomposition Experimental Highlights Selected Highlights from the First Heavy Ion Runs at RHIC Highlights from Gran Sasso Experimental Highlights from Super-Kamiokande The Fermilab Experimental Physics Program Special Sessions for New Talents Interpretation of the Search for Neutral Higgs Bosons at OPAL in a CP-Violating MSSM Scenario Application of the Large- $N_c$  Limit to a Chiral Lagrangian with Resonances Towards the Finite Temperature Gluon Propagator in Landau Gauge Yang-Mills Theory Hermes Measurements of the Nucleon Spin Structure Closing Ceremony Prizes and Scholarships Participants

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