1. Record Nr. UNINA9910149712303321 **Titolo** International Symposium on Quantum Chromodynamics and Color Confinement, CONFINEMENT 2000: RCNP, Osaka, Japan, 7-10 March 2000 / / editors, H. Suganuma, M. Fukushima, H. Toki Singapore;; River Edge, NJ:,: World Scientific,, [2001] Pubbl/distr/stampa ©2001 **ISBN** 981-281-120-6 Descrizione fisica 1 online resource (426 pages): illustrations Disciplina 539.7/548 Soggetti Color confinement (Nuclear physics) Quantum chromodynamics Hadrons Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Title from PDF file title page (viewed November 17, 2016). Nota di bibliografia Includes bibliographical references. Sommario/riassunto "The guark confinement mechanism is one of the most difficult problems in particle physics, and is listed as the 7 difficult mathematical problems of the new millennium. The first person who first solves this problem will be awarded a prize of USD1 Million by Cray Mathematics Institute. This volume is useful for the systematic understanding of quark confinement and nonperturbative aspects of quantum chromodynamics (QCD) from the wide viewpoints of mathematical physics, lattice QCD physics and quark-hadron physics. It covers the current studies of nonperturbative QCD: quark confinement mechanism; topologies in QCD (instantons, monopoles and vortices); BRS quartet mechanism for color confinement; lattice QCD calculations for quarks, gluons and hadrons; dynamical chiral symmetry breaking

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