Record Nr.	UNISA996466686603316
Titolo	Supersymmetry and Quantum Field Theory [[electronic resource]] : Proceedings of the D. Volkov Memorial Seminar Held in Kharkov, Ukraine, 5–7 January 1997 / / edited by Julius Wess, Vladimir P. Akulov
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 1998
ISBN	3-540-69217-7
Edizione	[1st ed. 1998.]
Descrizione fisica	1 online resource (XV, 408 p.)
Collana	Lecture Notes in Physics, , 0075-8450 ; ; 509
Disciplina	539.7/25
Soggetti	Quantum field theory
	String theory
	Elementary particles (Physics)
	Quantum physics
	Quantum computers Spintronics
	Quantum Field Theories, String Theory
	Elementary Particles, Quantum Field Theory
	Quantum Physics
	Quantum Information Technology, Spintronics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	Last interview with D.V. volkov p-Brane chemistry Intersecting branes and supersymmetry Properties of intersecting p-branes in various dimensions Super D-branes Volkov-akulov theory and D- branes Ten to eleven: It is not too late Aspects of superembeddings Superbrane actions and geometrical approach The M theory five-brane and the heterotic string A linear representation for the topological extensions of the poincaré superalgebra in d=11 On the construction of global duality maps in strings and supermembrane theories Planckian energy scattering of D-branes and M(atrix) theory in curved space Self-duality in nonlinear electromagnetism Progress toward A classical (SUSY)2 4D, N=1 green-schwarz ?-model action N=4 supersymmetric integrable

1.

	systems On some puzzles in N=2 supersymmetric gauge theory Alternative formulations of N=2 supesymmetric gauge theory in harmonic superspace Lie-algebraic characterization of 2D (super-) integrable models Universal hidden supersymmetry in classical mechanics and its local extension The hamiltonian structure of the "bosonic" and "fermionic" extensions of N=2 KdV hierarchy Mass generation in the supersymmetric Nambu-Jona-Lasinio model in an external magnetic field On extension of minimality principle in supersymmetric electrodynamics Stochastic Wess-Zumino-Witten models On (k ? I/q)-dimensional supermanifolds Let the spin and the charges unify Kerr spinning particle and superparticle models Spinons and parafermions in fermion cosets Exact solutions in Einstein-Yang-Mills theories Higher massless irreducible spins in the BRST approach Sonoluminescence and black holes as sources of squeezed light Remark concerning integrable Hamilton systems q-Deformed heisenberg algebra Supersymmetric reflection matrices Deformed neisenberg algebra Supersymmetric reflection sof matter fields in 2+1 dimensions Universality of the R-deformed heisenberg algebra The dual algebra of the Jordanian GLg,h(2) Supertraces on some deformations of heisenberg superalgebra Harish-chandra embedding and q-analogues of bounded symmetric domains q-differential calculus and deformed light-cone 0) and infinitesimal transformations Integrating a generic algebra On the quantization of half-integer spin fields S-matrix in the generalized quantization method Regge poles in nucleon-nucleon and nucleon- antinucleon scattering amplitudes SU(3) x SU(3) symmetry and the baryon-meson coupling constants Phenomenological lagrangian for spin waves Possible universal neutrino interaction Higgs effect for goldstone particles with spin 1/2 Gauge fields on superspaces with different holonomy groups Spontaneous compactification of subspace due to interaction of
Sommario/riassunto	This volume contains important contributions to various topics of modern theoretical physics: supermembranes, supersymmetry, and quantum field theory and quantum groups. The book is dedicated to the late D. Volkov and also contains a selection of his pioneering work in spin and statistics, supersymmetry, supergravity, and superstrings.