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| Disciplina              | 530.12  |
| Soggetti                | Quantum physics<br>Elementary particles (Physics)<br>Quantum field theory<br>Quantum computers<br>Spintronics<br>Quantum Physics<br>Elementary Particles, Quantum Field Theory<br>Quantum Information Technology, Spintronics   |
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| Nota di contenuto       | Lectures on quantum cosmology -- Solitons and black holes in 4,5 dimensions -- Truncations in Kaluza-Klein theories -- Canonical quantization and cosmic censorship -- Quantum effects in non inertial frames and quantum covariance -- Stochastic de sitter (inflationary) stage in the early universe -- Some mathematical aspects of stochastic quantization -- Superstrings and the unification of forces and particles -- Conformally invariant field theories in two dimensions critical systems and strings -- Liouville model on the lattice -- Exact solvability of semiclassical quantum gravity in two dimensions and liouville theory -- Some features of complete integrability in supersymmetric gauge theories -- Monopoles and-reciprocity -- Non-local conservation laws for non-linear sigma models with fermions -- Inverse scattering transform in angular momentum and applications to |

non-local effective actions -- General structure and properties of the integrable nonlinear evolution equations in 1+1 and 2+1 dimensions -- Hierarchies of poisson brackets for elements of the scattering matrices -- Multidimensional inverse scattering and nonlinear equations -- An  $SL(3)$ -Symmetrical F-Gordon equation:  $Z^?B = 1/3 (eZ^?e^? 2Z)$  -- The solution of the cartan equivalence problem for  $\frac{d^2 y}{dx^2} = F(x, y, \frac{dy}{dx})$  under the pseudo-group  $\bar{x} = \varphi(x), \bar{y} = \psi(x, y)$  -- Quantum R matrix related to the generalized Toda system: An algebraic approach -- Solution of the multichannel Kondo-problem -- The directed animals and related problems -- Incommensurate structures and breaking of analyticity.

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