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| Collana | Lecture Notes in Physics, , 0075-8450 ; ; 469 |
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| Soggetti | Quantum physics |
| | Quantum computers |
| | Spintronics |
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| Nota di contenuto | The chern-simons theory and quantized moduli spaces of flat connections Comments about higgs fields, noncommutative geometry, and the standard model Large new applications of Bethe Ansatz University in turbulence: An exactly solvable model to integrable models of statistical physics Yang-Baxter equation and reflection equations in integrable models Scattering matrices and affine Hecke algebras Some algebraic and analytic structures in integrable systems Monodromy representation of the mapping class |

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| the quantum mechanical Lyapunov exponents? Area-preserving structure of massless matter-gravity fields in 1+1 dimensions Solitons in the Calogero-Sutherland collective field model W 1+? minimal models and the hierarchy of the quantum hall effect Creation and annihilation operators for b?c systems on general algebraic curves Interacting electrons and localized spins: Exact results from conformal field theory On the U(1)-Problem of QED2 The finite Gauge model on the truncated sphere Local operators in massive quantum field theories On anomalies and noncommutative geometry Quantum deformations of space-time symmetries with fundamental mass parameter Magnetic field-induced 2D wigner solid versus incompressible quantum liquid Random Walks over Wilson loop space Polynomial identities on Reflection Equation Algebra to Poisson ?-models On solution of self-duality equation | |
|---|--|
| Sommario/riassuntoThis book contains thoroughly written reviews of modern developments in low-dimensional modelling of statistical mechanics and quantum systems. It addresses students as well as researchers. The main items can be grouped into integrable (quantum) spin systems, which lead in the continuum limit to (conformal invariant) quantum field theory models and their algebraic structures, ranging from the Yang-Baxter equation and quantum groups to noncommutative geometry. | |