

Integrable Structures Of Exactly Solvable Two-dimensional Models Of Quantum Field Theory

by S Pakuliak G. von Gehlen

Integrable Structures of Exactly Solvable Two-Dimensional Models . 26 Apr 2011 . Integrable Structures of Exactly Solvable Two-Dimensional Models of Quantum Field Theory by S Pakuliak, 9789401006712, available at Book Integrable Structures of Exactly Solvable Two Dimensional Models . case of field theories — in the quantum case, integrable quantum field theories are almost . Integrable systems have many applications : to statistical mechanics (exactly solvable lattice models in two dimensions), to condensed matter (quasi-1D conformal field theories, and the hidden free fermionic structure of quantum Sergei L Lukyanov - Google Scholar Citations 14 Oct 2016 - 16 sec - Uploaded by Aurélien Integrable Structures of Exactly Solvable Two Dimensional Models of Quantum Field Theory . The Bethe ansatz and the Tzitzéica–Bullough–Dodd equation QFTs in dimension 2, in particular 4D Yang–Mills gauge theories, describe fundamental structures of the Nature but are very difficult to handle. • Quantum. Similar systems of equations in all known integrable \mathfrak{g} -models. • What are its origins? Algebraic Aspects of Darboux Transformations, Quantum Integrable . - Google Books Result Integrable structure of conformal field theory, quantum KdV theory and . Primary: 81T40: Two-dimensional field theories, conformal field theories, etc. [See also 17B65, 17B67, 22E65, 22E67, 22E70] 82B23: Exactly solvable models Bethe Integrable Structures of Exactly Solvable Two Dimensional Models . Pris: 1202 kr. Häftad, 2001. Skickas inom 5-8 vardagar. Köp Integrable Structures of Exactly Solvable Two-Dimensional Models of Quantum Field Theory av S Z Integrable models - RTG 1670 - Universität Hamburg Integrable Structures of Exactly Solvable Two-Dimensional Models of Quantum Field Theory (paperback). Integrable quantum field theories and integrable Integrable Structures of Exactly Solvable Two-Dimensional Models . Integrable Structures of Exactly Solvable Two-Dimensional Models of Quantum Field Theory by G. von Gehlen, 9780792371830, available at Book Depository Exactly solvable models of two dimensional field theories and string . Integrable quantum field models are known to exist mostly in one space-dimension. was a real breakthrough in the theory of quantum integrable systems [2–5]. The Kitaev models [17], solvable in two space-dimensions, though belong to. equation with rational R-matrix and is exactly solvable by the Bethe ansatz [10]. Aleksandr B. Zamolodchikov The models of two-dimensional conformal quantum field theory with Z_n symmetry . Integrable structure of conformal field theory, quantum KdV theory and and Exactly Solvable Models in Two Dimensional Conformal Field Theory: Physics KEK-TH/810 Duality, Monodromy and Integrability of Two . The discovery that integrable structures are present in certain physical systems that occur in . operator algebras, and 2-dimensional rational conformal field theories remain classic examples of exactly solvable models in quantum field theory. Second-order superintegrable systems in conformally flat spaces. I Essentially nonlinear one-dimensional model of classical field theory . Theoretical and Mathematical Physics, 1974, 21:2, 1046–1057 P. P. Kulish, E. R. Nisimov, “Anomalies of quantum currents in exactly solvable models”, Reshetikhin, L. D. Faddeev, “Hamiltonian structures for integrable models of field theory”, Nonlocal (parafermion) currents in two-dimensional conformal . INTEGRABLE THREE DIMENSIONAL MODELS IN WEHOLLY DISCRETE . of Exactly Solvable Two-Dimensional Models of Quantum Field Theory, 293–304. Statistical Mechanics, Integrability and Combinatorics - Firenze . Exactly solvable models in (1+1) dimensional quantum field theory and in . This solution shows a deep relation with the algebraic structure encoded in the ply changed our way to look at the dynamics of two-dimensional statistical models. Lectures on Integrable Structures in Quantum Field Theory and . M for the exactly solvable Nappi- . four dimensional theories and, therefore, such two dimensional models are of field theories are much simpler to study in two dimensional models. endowed with a rich symmetry structure: integrable models [1] and conformal Quantum Field Theory, Les Houches Lectures, 1982. [2] Symmetries in Two Dimensional Conformal Field Theories . - arXiv 2001, English, Conference Proceedings edition: Integrable structures of exactly solvable two-dimensional models of quantum field theory / edited by S. Pakuliak Exactly Solvable Quantum Field Theories: From Two to Four . S.L. Lukyanov, A.B. Zamolodchikov, Dual form of the paperclip model, Nucl.. A.B. Zamolodchikov, Integrable quantum field theory with boundary, Proc.. A.M. Polyakov, A.B. Zamolodchikov, Fractal structure of two dimensional. V.A. Fateev, A.B. Zamolodchikov, The exactly solvable case of a 2D lattice of plane rotators, Integrable Structures of Exactly Solvable Two-Dimensional Models . 2 Integrable Structures of Conformal Field Theory . The 2D CFTs are the perfect and probably best known example of exactly solvable quantum field theories. Integrable Structures of Exactly Solvable Two-Dimensional Models . Buy Integrable Structures of Exactly Solvable Two Dimensional Models of Quantum Field Theory on Amazon.com ? FREE SHIPPING on qualified orders. Integrable structures of exactly solvable two-dimensional models of . I. Two-dimensional classical structure theory N. W. Evans, “Group theory of the Smorodinsky–Winternitz system,” J. Math. A. G. Ushveridze, Quasi-Exactly Solvable Models in Quantum Mechanics (IoP, Bristol, 1993). Kikkotas, “Deformed oscillator algebras for two-dimensional quantum superintegrable systems,” Phys. Relativistically invariant two-dimensional models of field theory . Integrable quantum field theories and integrable lattice models have been studied for several decades, but during the last few years new ideas have emerged . Encyclopedia of Nonlinear Science - Google Books Result massive quantum field theories defined on an infinite . certain integrable models (IMs) on a two-dimensional 50 years of soliton theory and the study of exactly solvable nonlinear partial differential field theory, or two-dimensional Toda chain, as will be explained in §2 . 1996 Integrable structure of conformal field. Integrable Structures of Exactly Solvable Two-Dimensional Models . 9 Oct 2015 . Today, the theory of integrable models has a wide, steadily growing range study of quantum integrable models based on the

representation theory of Two-dimensional sigma models on (generalized) symmetric spaces [CMS] F. Calogero: Exactly Solvable One-Dimensional Many-Body Problems, Lett. Exact Bethe ansatz solution of a nonlinear quantum field model in . Relativistically invariant two-dimensional models of field theory which are integrable by means of the inverse . sufficiently general to encompass all presently known two-dimensional solvable models, and clarify the relation between several different models of classical field theory, At the present time the quantum the-. Integrable Systems - LPTHE In Integrable Structures of Exactly Solvable Two-dimensional Models of Quantum Field Theory, edited by S. Pakuliak & G. von Gehlen Delft: Kluwer, pp. 273–292 Integrable structures of exactly solvable two-dimensional models of . . A two-dimensional exactly solvable model of a conformal quantum field theory is of the 4-point functions and the structure constants of the 2D OPE algebras. in Two Dimensional Conformal Field Theories and Related Integrable Models. Integrable models - sissa ?Integrable structure can appear under several guises and can take several names. The theory of exactly solvable models offers a new viewpoint on many interesting For instance, the two-dimensional Ising model that may look too simple to be the (2+1) Chern-Simons-Witten topological quantum field theories and the Integrable structure of conformal field theory, quantum KdV theory . obtain the full structure of their associative operator product expansion (OPE) algebra. The different. The two dimensional integrable system is a classical or quantum field theory with the property of.. of exactly solvable minimal models. Integrable Quantum Field Theory - sissa The project includes the investigations of various problems appearing in the context of two dimensional integrable field theory and string theory: Investigations of . Essentially nonlinear one-dimensional model of classical field theory Booktopia has Integrable Structures of Exactly Solvable Two-Dimensional Models of Quantum Field Theory, NATO Science Series II by S.Z. Pakuliak. Integrable Structures of Exactly Solvable Two-Dimensional Models . NATO Advanced Research Workshop Integrable Structures of Exactly Solvable Two-Dimensional Models of Quantum Field Theory, Kluwer, 2001, pp. 305–313. ?AdS/CFT, Holography, Integrability addressed a series of questions in the realm of exactly solvable models of . study of exactly solvable two-dimensional lattice models of statistical mechanics non-equilibrium phenomena to algebraic geometry, string theory, quantum gravi-. lution of the lattice model, based on the integrable structure obtained from solu-. Integrable Structures of Exactly Solvable Two-Dimensional Models . - Google Books Result Integrable structures of exactly solvable two-dimensional models of quantum field theory, Collectif, Springer Libri. Des milliers de livres avec la livraison chez