

Quantization, Poisson Brackets and Beyond

This book offers accounts of results in the field of quantization, Poisson brackets and generalizations, and more, as well as accessible expositions aimed at a broad audience of researchers in differential geometry, algebraic topology and mathematical physics. The papers in this volume are based on talks given at the 2001 Manchester Meeting of the London Mathematical Society, which was followed by an international workshop on "Quantization, Deformations, and New Homological and Categorical Methods in Mathematical Physics". Focus is on the topics suggested by the title: quantization in its various aspects, Poisson brackets and generalizations, and structures "beyond" this, including symplectic supermanifolds, operads, Lie groupoids and Lie (bi)algebroids, and algebras with n -ary operations. The book offers accounts of up-to-date results as well as accessible expositions aimed at a broad reading audience of researchers in differential geometry, algebraic topology and mathematical physics. B. Fedosov, Deformation quantization: Pro and contra; N.P. Landsman, Quantization as a functor; H. Omori, Y. Maeda, N. Miyazaki, and A. Yoshioka, Star exponential functions for quadratic forms and polar elements; J. Rawnsley, On traces for differential st

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