

Mathematical Results in Quantum Mechanics

The articles cover a range of mathematical problems, focusing on quantum mechanics, quantum field theory and nuclear physics. Topics vary from spectral properties of the Schrodinger equation of various quantum systems to the analysis of quantum computation algorithms. This work contains contributions presented at the conference, "QMath-8: Mathematical Results in Quantum Mechanics", held at Universidad Nacional Autonoma de Mexico in December 2001. The articles cover a wide range of mathematical problems and focus on various aspects of quantum mechanics, quantum field theory and nuclear physics. Topics vary from spectral properties of the Schrodinger equation of various quantum systems to the analysis of quantum computation algorithms. The book should be suitable for graduate students and research mathematicians interested in the mathematical aspects of quantum mechanics. R. Adami, Blow-up for Schrodinger equation with pointwise nonlinearity; J.-M. Barbaroux, M. Dimassi, and J.-C. Guillot, Quantum electrodynamics of relativistic bound states with cutoffs; F. Bentosela and M. Tater, Scattering by a slab: An exact calculation



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