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Spectral Asymptotics in the Semi-Classical Limit

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Spectral Asymptotics In The Semi Classical Limit

Mouez Dimassi, Johannes Sjöstrand



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notions or general results where they appear by replacing them in the context of quantum mechanics

Topics in the Theory of Schrödinger Operators Huzihiro Araki, Hiroshi Ezawa, 2004 This invaluable book presents reviews of some recent topics in the theory of Schrödinger operators It includes a short introduction to the subject a survey of the theory of the Schrödinger equation when the potential depends on the time periodically an introduction to the so called FBI transformation also known as coherent state expansion with application to the semi classical limit of the S matrix an overview of inverse spectral and scattering problems and a study of the ground state of the Pauli Fierz model with the use of the functional integral The material is accessible to graduate students and non expert researchers

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Mathematical Concepts of Quantum Mechanics Stephen J. Gustafson, Israel Michael Sigal, 2020-10-21 The book gives a streamlined introduction to quantum mechanics while describing the basic mathematical structures underpinning this discipline Starting with an overview of key physical experiments illustrating the origin of the physical foundations the book proceeds with a description of the basic notions of quantum mechanics and their mathematical content It then makes its way to topics of current interest specifically those in which mathematics plays an important role The more advanced topics presented include many body systems modern perturbation theory path integrals the theory of resonances adiabatic theory geometrical phases Aharonov Bohm effect density functional theory open systems the theory of radiation non relativistic quantum electrodynamics and the renormalization group With different selections of chapters the book can serve as a text for an introductory intermediate or advanced course in quantum mechanics Some of the sections could be used for introductions to geometrical methods in Quantum Mechanics to quantum information theory and to quantum electrodynamics and quantum field theory

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