

Path Integral Quantization and Stochastic Quantization

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Mikio Namiki



Path Integral Quantization And Stochastic Quantization:

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Quantization Mikio Namioka, 2008-10-04 This is a textbook on stochastic quantization which was originally proposed by G Parisi and Y S Wu in 1981 and then developed by many workers I assume that the reader has finished a standard course in quantum field theory The Parisi-Wu stochastic quantization method gives quantum mechanics as the thermal equilibrium limit of a hypothetical stochastic process with respect to some fictitious time other than ordinary time We can consider this to be a third method of quantization remarkably different from the conventional theories i.e. the canonical and path integral ones Over the past ten years we have seen the technical merits of this method in quantizing gauge fields and in performing large numerical simulations which have never been obtained by the other methods I believe that the stochastic quantization method has the potential to extend the territory of quantum mechanics and of quantum field theory However I should remark that stochastic quantization is still under development through many mathematical improvements and physical applications and also that the fictitious time of the theory is only a mathematical tool for which we do not yet know its origin in the physical background For these reasons in this book I attempt to describe its theoretical formulation in detail as well as practical achievements **Path Integral Quantization and Stochastic Quantization** Michio Masujima, 2008-11-21 In this

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Constrained Dynamics and Quantum Gravity 1999 Vittorio De Alfaro, 2000 *CAP-NSERC Summer Institute in Theoretical Physics, Edmonton, Alberta, 10-25 July 1987: Quantum field theory as an interdisciplinary basis* F. C. Khanna, 1988 *Physics Letters* ,2000 Recent Advances in Theoretical Physics R. Ramachandran, 1985

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