

Yuichi Itto, 15.10.2020

„Introduction to Flow Equations for Hamiltonians “

Wegner's method of flow equations offers a powerful tool for diagonalizing a given quantum-mechanical Hamiltonian, in analogy with the renormalization group approach to critical phenomena. This method has widely been used in various branches from condensed matter physics to quantum information. Here, the basics of the method is discussed. The method is illustrated by analyzing a simple physical example. A brief comment is also made on recent developments of the method.