Mini Course:

Supersymmetric Quantum Mechanics

— Analytically Solvable Problems in Quantum Mechanics —

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Abstract

Supersymmetric quantum mechanics (SUSY QM) was originally introduced by E. Witten in 1981 as a low-energy effective model of supersymmetric quantum field theories. Now it is interesting in its own right; SUSY QM has been giving insights into the solvability in one-dimensional quantum mechanics. In this lecture, we revisit several essential concepts in solving one-dimensional quantum mechanical systems exactly: factorization of Hamiltonian, shape invariance, *etc.* Additional topics related to SUSY QM are also provided.

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