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Yuta Nasuda

Title: Analytically Solvable Problems in Quantum Mechanics and SWKB Quantization Condition

The Schrödinger-type equation appears not only in quantum mechanics but also in every corner of physics. It has long been studied what the basic feature of solvable potentials is, and how one solves the equation with those potentials analytically. Today we know infinitely many solvable potentials, but we still have no whole notion of the solvability of the Schrödinger equation. In this talk, we first review several essential concepts in the solvability of the Schrödinger equation. Then we introduce the SWKB quantization condition, which is relevant to the solvability of the Schrödinger equation. We apply the condition to several solvable problems and show how they are closely connected.