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Generating of Conditionally Exactly Soluble Potentials by Method of Supersymmetric Quantum Mechanics

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Abstract: This paper suggests a systematic method based on supersymmetric quantum mechanics for generating conditionally exactly soluble potentials, and uses the variational supersymmetric WKB method to obtain the approximate values of the energy spectrum of the whole class.

PACS: 03.65.Fd, 03.65.Sq, 03.65.Ge Key words: supersymmetric quantum mechanics, conditionally exactly soluble potential, SWKB approximation, variational method, energy level

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