Analytic Continuation of Eigenvalues of a Quartic Oscillator

ALEXANDER EREMenKo
Purdue University

Abstract. We give a new proof of the fact discovered by Bender and Wu that the eigenvalues of the one-dimensional Schrödinger operator with even quartic potential, as functions of the parameter in the potential, are given by two global analytic functions, one for the even eigenfunctions, and one for the odd ones.