On the negative eigenvalues of two-dimensional Schro[~]dinger operators with singular potentials

Martin Karuhanga Mbarara University of Science and Technology, Mbarara, Uganda

Abstract

In this paper quantitative upper estimates for the number of negative eigenvalues of a two dimensional Schro⁻⁻dinger operator with potential supported by an unbounded Lipschitz curve are presented. The estimates are given in terms of the weighted L1 and L log L type Orlicz norms of the potential.

Keywords: Negative eigenvalues; Schroödinger operators; Singular potentials.