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Spectral properties of adiabatically perturbed differential operators with periodic coefficients. (English) [Zbl 0726.34068](#)

Recent developments in quantum mechanics, Proc. Conf., Braşov/Rom. 1989, Math. Phys. Stud. 12, 97-112 (1991).

Summary: [For the entire collection see [Zbl 0722.00044](#).]

We describe the asymptotic structure of the spectrum and the asymptotic behavior of the eigenfunctions of the operators

$$Hz = -z_{xx} + p(x)z + v(\epsilon x)z,$$

p is periodic $0 < \epsilon \ll 1$.

MSC:

[34L20](#) Asymptotic distribution of eigenvalues, asymptotic theory of eigenfunctions for ordinary differential operators

Cited in **1** Document

Keywords:

asymptotic structure of the spectrum; asymptotic behavior of the eigenfunctions; periodic