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Spectral properties of the operators $H\psi = -\psi_{xx} + p(x)\psi + v(\epsilon x)\psi$, p is periodic. (English)

Zbl 0723.47042

Order, disorder and chaos in quantum systems, Proc. Conf., Dubna/USSR 1989, Oper. Theory, Adv. Appl. 46, 85-107 (1990).

Summary: [For the entire collection see [Zbl 0708.00010](#).]

We describe the spectrum in $L_2(\mathbb{R})$ and the asymptotic behavior of the eigenfunctions of the operator indicated in the title as $\epsilon \rightarrow 0$.

MSC:

[47F05](#) General theory of partial differential operators

[47A10](#) Spectrum, resolvent

Cited in **2** Documents

Keywords:

asymptotic behavior of the eigenfunctions