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The spectrum of the two-dimensional periodic Schrödinger operator. (English) [Zbl 1178.35275](#)
Theor. Math. Phys. 134, No. 3, 392-403 (2003); translation from *Teor. Mat. Fiz.* 134, No. 3, 447-459 (2003).

Summary: The absence of eigenvalues (of infinite multiplicity) for the two-dimensional periodic Schrödinger operator with a variable metric is proved. The method of proof does not use the change of variables reducing the metric to a scalar form.

MSC:

- 35P05 General topics in linear spectral theory for PDEs
- 81Q10 Selfadjoint operator theory in quantum theory, including spectral analysis
- 35J10 Schrödinger operator, Schrödinger equation
- 35Q40 PDEs in connection with quantum mechanics

Cited in **7** Documents

Keywords:

Schrödinger operator; spectrum; periodic electric potential; periodic magnetic potential; variable metric

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