

**Nenciu, G.**

**Stability of energy gaps under variations of the magnetic field.** (English) Zbl 0607.46049  
*Lett. Math. Phys.* 11, 127-132 (1986).

It is proved that the location of the spectrum of the one-body Schrödinger operator is stable under small variations of the magnetic field. It is not supposed that the potential or the magnetic field vanishes at infinity. The potential is not supposed to be periodic so the results apply to crystalline and amorphous solids as well.

**MSC:**

- [46N99](#) Miscellaneous applications of functional analysis
- [47F05](#) General theory of partial differential operators
- [81Q15](#) Perturbation theories for operators and differential equations in quantum theory

Cited in **1** Review  
Cited in **10** Documents

**Keywords:**

location of the spectrum of the one-body Schrödinger operator is stable under small variations of the magnetic field; crystalline and amorphous solids

**Full Text:** [DOI](#)

**References:**

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