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**Lower bounds for the counting function of resonances for a perturbation of a periodic Schrödinger operator by decreasing potential.** (English) [Zbl 1032.35063](#)

*C. R., Math., Acad. Sci. Paris* 335, No. 12, 1013-1016 (2002).

Summary: We are interested here in the counting function of resonances  $N(h)$  for a perturbation of a periodic Schrödinger operator  $P_0$  by decreasing potential  $W(hx)$  ( $h \searrow 0$ ). We obtain a lower bound for  $N(h)$  near some singularities of the density of states measure, associated to the unperturbed Hamiltonian  $P_0$ .

**MSC:**

[35J10](#) Schrödinger operator, Schrödinger equation

[35B34](#) Resonance in context of PDEs

[35B20](#) Perturbations in context of PDEs

Cited in 1 Document

**Keywords:**

edges of bands; band crossing

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

**References:**

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