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Stark-Wannier resonant states. (English) [Zbl 0726.34075](#)

Recent developments in quantum mechanics, Proc. Conf., Braşov/Rom. 1989, Math. Phys. Stud. 12, 85-95 (1991).

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

The resonance states which appear in a crystal submitted to an external constant electric field are shown to be close to the eigenstates of the Schrödinger operator obtained neglecting the interband terms.

MSC:

[34L40](#) Particular ordinary differential operators (Dirac, one-dimensional Schrödinger, etc.) Cited in 1 Document

[82D25](#) Statistical mechanics of crystals

Keywords:

resonance states; crystal; external constant electric field; eigenstates of the Schrödinger operator