

Pauli operators with almost periodic electromagnetic fields
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Abstract: I will consider a two-dimensional Pauli operator H with an almost periodic electromagnetic field. First, I will discuss the general ergodic properties of H . Further, assuming that the electric potential vanishes, I will discuss the zero modes of H . A special attention will be allocated to the case of a vanishing mean value of the magnetic field.

The talk is based on a joint work with J.-F. Bony (Bordeaux) and N. Espinoza (Tokyo).