

## Negative spectrum of Schrödinger operators with oscillating potentials

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For a Schrödinger operator  $-\Delta - \alpha V$ , the decay of the potential  $V$  towards infinity determines the finiteness of its negative spectrum. In the particular case where  $V$  is asymptotically homogeneous of degree -2, the size of the coupling constant  $\alpha$  distinguishes between the generation of finitely or infinitely many negative eigenvalues. In this talk we will show that a similar property holds when the potential has slower decay but oscillates at infinity.

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