

Negative spectrum of Schrödinger operators with oscillating potentials

mercredi 11 octobre 2023 09:00 (1 heure)

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 α 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.

Orateur: READ, Larry (LMU)