

B. Helffer: Quantum tunneling in deep potential wells and strong magnetic field revisited

vendredi 28 octobre 2022 09:00 (1 heure)

Inspired by a recent paper by C. Fefferman, J. Shapiro and M. Weinstein, we investigate quantum tunneling for a Hamiltonian with a symmetric double well and a uniform magnetic field. In the simultaneous limit of strong magnetic field and deep potential wells with disjoint supports, tunneling occurs and we derive accurate estimates of its magnitude.

This talk is based on a joint work with A. Kachmar.