

Tunneling in radial potential wells and constant magnetic field or Aharonov-Bohm

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We investigate a Hamiltonian with radial potential wells and either a constant magnetic field or an Aharonov-Bohm magnetic field. Assuming that the potential wells are symmetric, we derive the semi-classical asymptotics of the splitting between the ground and second state energies. The first case was first considered by Fefferman-Shapiro-Weinstein and improved successively by Helffer-Kachmar, Helffer-Kachmar-Sundqvist, L. Morin. The second case is a work in progress with A. Kachmar.

(after Helffer-Kachmar, Morin...)

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