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Shigeki Aida* (aida@sigmath.es.osaka-u.ac.jp). *Log-Sobolev inequalities and semi-classical limit of $P(\phi)_2$ -Hamiltonians.*

We determine the semi-classical limit of the lowest eigenvalue of a $P(\phi)_2$ -Hamiltonian on a finite volume interval using the estimates derived from log-Sobolev inequalities. (Received September 07, 2009)