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Spectral asymptotics and dynamics

Victor IVRII
Department of Mathematics
University of Toronto
40 St. George Street, 6th Floor
Toronto (Ontario), M5S 2E4
CANADA

`ivrii@math.toronto.edu`

Abstract

I am going to show that

1. Eigenvalue asymptotics is intimately related to the corresponding dynamics;
2. There is a quantum dynamics and classical dynamics and both of them are intimately related;
3. Quantum dynamics is richer than the classical one;
4. Standard notions of the classical dynamics are not that obvious in many situations.