

COMPACTNESS OF SCHRÖDINGER SEMIGROUPS

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ABSTRACT. It is a classical fact going back to Friedrichs that a potential that goes to infinity at infinity leads to a Schrödinger operator with empty essential spectrum, i.e., with a compact semigroup. We explore this theme and give new results with simple proofs.

This is joint work with Daniel Lenz (Jena) and Daniel Wingert (Chemnitz).