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Lieb-Robinson bounds and existence of the thermodynamic limit for a class of irreversible quantum dynamics

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We prove Lieb-Robinson bounds and the existence of the thermodynamic limit for a general class of irreversible dynamics for quantum lattice systems with time-dependent generators that satisfy a suitable decay condition in space.

This is joint work with Bruno Nachtergaele and Anna Vershynina (Department of Mathematics, UC Davis).

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