Jitomirskaya, Svetlana; Liu, Wencai

Upper bounds on transport exponents for long-range operators. (English) Zbl 1469.81022 J. Math. Phys. 62, No. 7, 073506, 9 p. (2021).

Summary: We present a simple method, not based on the transfer matrices, to prove vanishing of dynamical transport exponents. The method is applied to long-range quasiperiodic operators.

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MSC:
81Q10 Selfadjoint operator theory in quantum theory, including spectral analysis
16S85 Associative rings of fractions and localizations
81Q15 Perturbation theories for operators and differential equations in quantum theory
47B35 Toeplitz operators, Hankel operators, Wiener-Hopf operators
15B05 Toeplitz, Cauchy, and related matrices

Keywords:
Anderson localization

Full Text: DOI arXiv

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