

Title: Fractional moment analysis for random multiparticle Schrödinger operators

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Abstract:

We study localization properties of a random Schrödinger operator corresponding to a system of n interacting particles in an alloy-type external potential.

We present a framework for an inductive proof of localization at the bottom of the spectrum of the n -particle Hamiltonian. It relies on the analysis of fractional moments of the resolvent and their connection to eigenfunction correlators.
