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Mathematical Physics

systems

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Direct Scaling Analysis of localization in

(Submitted on 11 Jun 2011 (v1), last revised 4 May 2012 (this version, v2))

disordered systems. II. Multi-particle lattice

We adapt a simplified version of the Multi-Scale Analysis presented in \cite{C11} to multi-particle

tight-binding Anderson models. Combined with a recent eigenvalue concentration bound for multi-

particle systems \cite{C10}, the new method leads to a simple proof of the multi-particle dynamical localization with more optimal decay bounds on eigenfunctions than in \cite{CS09b,AW09a,AW09b},

to be IID. We also extend the result on multi-particle localization to models with a rapidly decaying

for a large class of strongly mixing random potentials. All earlier results required the random potential

Submission history

interaction.

From: Victor Chulaevsky [view email] [v1] Sat, 11 Jun 2011 13:25:16 GMT (32kb) [v2] Fri, 4 May 2012 10:47:23 GMT (35kb)

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