Stability of the Absolutely Continuous Spectrum of Random Schrödinger Operators on Tree Graphs

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Abstract

The subject of this work are discrete or continuum Schrödinger operators on regular tree graphs with weak but extensive disorder in the form of a random potential or random edge length. For such operators we present a new method for establishing the persistence of absolutely continuous spectrum in the presence of disorder.

This is joint work with M. Aizenman and R. Sims.