

Localization on a cubic lattice graph with a random potential

In the first part of the talk a special cubic lattice quantum graph model will be introduced for which Anderson and dynamical localization can be proven. I want to give a short introduction to the phenomenon itself and sketch the idea of multiscale analysis which is one technique often used to prove localization.

In the second part some details about the necessary eigenvalue estimates will be shown; especially I think about Wegner and initial value estimates.

The talk is based on a paper together with Pavel Exner and Peter Stollmann which you can find at [mp arc 06-371](#).