RICHARD FROESE, University of British Columbia

AC spectrum for the Anderson model on a tree: a geometric proof

We give a new proof of Klein's result on the existence of absolutely continuous spectrum for a discrete random Schrödinger operator on a tree with small disorder. Our proof relies on a new geometric way of controlling the Green's function, based on the contraction properties of a transformation in hyperbolic space.

This is joint work with David Hasler and Wolfgang Spitzer.