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Constanze Liaw*, One Bear Place #97328, Waco, TX 76798. *Cyclic vectors for rank one perturbations and Anderson-type Hamiltonians.*

We develop a rather explicit approach concerning the extended states conjecture for the discrete random Schroedinger operator. We provide a formula which ‘may’ lead the way to a rigorous proof of the conjecture, and an implementation of the proposed approach which yields numerical evidence in favor of the conjecture being true for the discrete random Schroedinger operator in dimension two.

This approach is based on the theory of rank one perturbations. (Received January 24, 2014)