1135-46-508 Valmir Bucaj* (vb11@rice.edu), 7901 Cambridge st, apt 85, Houston, TX 77054. Lyapunov exponents for the discrete one-dimensional generalized Anderson model.

We study a particular class of discrete one-dimensional random Schrödinger operators. Specifically, the ones where a single i.i.d random variable determines the potential on a block of arbitrary, but fixed, size α , which in literature is also known as the discrete generalized Anderson model. For this model we prove uniform positivity of Lyapunov exponents at all energies. Concretely, we give a lower bound, in terms of the length of the block α , for the size of the support of the distribution for which one has uniform positivity of Lyapunov exponents at all energies. Moreover, we show that it is not possible to chose the size of the support of the distribution uniformly and still have positive Lyapunov exponents at all energies. (Received September 06, 2017)