Abstract Submitted for the NEF17 Meeting of The American Physical Society

Anderson Localization in Time-Dependent Hamiltonians¹ ELIZA-BETH (NOELLE) BLOSE, Middlebury College, NATASHA PROCTOR, California Polytechnic State University, RAJIV SINGH, RICHARD SCALETTAR, UC Davis — We study a generalization of Anderson localization to show that different forms of time-dependence of onsite energies cause the system to behave in qualitatively different ways. Our results confirm the known result that random time dependence causes a disordered system to delocalize completely. However, we find that periodic time dependence causes an increase in localization length, but not complete delocalization.

 1 NSF REU

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Date submitted: 22 Sep 2017 Electronic form version 1.4