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Anderson Localization in Time-Dependent Hamiltonians[1] ELIZABETH NOELLE BLOSE, Middlebury College, NATASHA PROCTOR, California Polytechnic State University, RAJIV SINGH, RICHARD SCALETTAR, University of California, 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 Program

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