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Effects of electron correlations on delocalization and percolation of electronic states KENDALL MALLORY, Point Loma Nazarene University — A simulation of the effects of electron correlations on the formation of delocalized states and percolating clusters is presented. The model includes disorder in site locations and energy and uses a semi-classical approach to finding matrix elements and diagonalizing the Hamiltonian. We are also looking for scale invariant properties in the system.

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