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Topological phase diagram of optimally shaken honeycomb lattices

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By means of a simple non-perturbative numerical approach, we compute the topological phase diagram for ultracold atoms in shaken honeycomb lattices, under the optimal driving discussed by A. Verdeny and F. Mintert [Phys. Rev. A 92, 063615 (2015)]. These results are used to provide a general discussion of different approaches for computing the effective Floquet Hamiltonian of periodically driven systems.

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