

Abstract Submitted
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Time-Dependent Methods for Studying Wave Packet Behavior in Graphene DOUGLAS MASON, ERIC HELLER, Harvard University — Recent work on the quantum hall effect in graphene has promoted the use of time-dependent methods for studying wave packet behavior in graphene. Here we develop a framework to calculate the propagation of wave packets in finite graphene systems, permitting us to examine their interaction with cuts along the major symmetry lines as well as irregular edges. This work is supported by the U.S. Dept. of Energy Computer Science Graduate Fellowship under grant DE-FG02-97ER25308.

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