

Abstract Submitted
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Transport Through Graphene Surface States DOUGLAS MASON,
ERIC HELLER, Harvard University — Of particular interest to models of transport
through graphene has been the theoretical prediction of long-lived surface states
on zigzag cuts. These states may have a strong influence on transport through
finite graphene structures since, unlike infinite nanoribbon surface states, they can
absorb and emit electrons traveling through the bulk of the structure. We will be
presenting a novel approach to these surface states and postulate on their role in
recent transport calculations.

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