

Abstract Submitted
for the 4CF07 Meeting of
The American Physical Society

Path Integral Simulations of Graphene HOSAM YOUSIF, Arizona State University — Some properties of graphene are explored using a path integral approach. The path integral method allows us to simulate relatively large systems using monte carlo techniques and extract thermodynamic quantities. We simulate the effects of screening a large external charge potential, as well as conductivity and charge distributions in graphene sheets.

Hosam Yousif
Arizona State University

Date submitted: 14 Sep 2007

Electronic form version 1.4