

# HAN HSU

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## Education

- Ph.D. in Physics, The University of Texas at Austin (2006)  
Advisor: Dr. Linda E. Reichl
- M. S. in Physics, National Taiwan University, Taipei, Taiwan (2001)  
Advisor: Dr. Yuh-Lin Wang
- B. S. in Physics, National Taiwan University, Taipei, Taiwan (1998)

## Employment

- 2007 ~ present Postdoctoral Associate  
Dept of Chemical Engineering & Materials Science, University of Minnesota
- 2007 Postdoctoral Fellow  
Center for Complex Quantum Systems, The University of Texas at Austin

## Awards and Honors

- Outstanding Student Presentation, Fall 2005 Meeting of the Texas Section of the American Physical Society.
- Recipient of 2005 NATPA Young Scholar Program Fellowship, North America Taiwanese Professors' Association.

## Research Interests

- Computation materials science
- Spintronic materials
- Interaction of intense laser fields with nanostructures

## Professional Activities

- Referee for Physics Letter A

## Publications

- [1] “*Selection rule for the optical absorption of graphene nanoribbons*”, **Han Hsu** and L. E. Reichl, Phys. Rev. B **76**, 045418 (2007).
- [2] “*Floquet-Bloch states, quasienergy bands, and high-order harmonic generation for single-walled carbon nanotubes under intense laser fields*”, **Han Hsu** and L. E. Reichl, Phys. Rev. B **74**, 115406 (2006).
- [3] “*Modeling graphene layers and single-walled carbon nanotubes with regularized  $\delta$ -function potentials*”, **Han Hsu** and L. E. Reichl, Phys. Rev. B **72**, 155413 (2005).
- [4] “*Modeling conduction in electron waveguides with finite-range impurities*”, Hoshik Lee, **Han Hsu**, and L. E. Reichl, Phys. Rev. B **71**, 045307 (2005).

## Presentations

- [1] “*Interaction of intense laser fields with carbon nanotubes*”, Department of Chemical Engineering and Materials Science, University of Minnesota (12/29/2006).
- [2] “*Interaction of intense laser fields with carbon nanotubes*”, Arizona Center for Mathematical Science, University of Arizona (12/19/2006).
- [3] “*Modeling graphene layers and single-walled carbon nanotubes with regularized  $\delta$ -function potentials*”, Fall 2005 Meeting of the Texas Section of the American Physical Society (10/21/2005), **outstanding student presentation**.