Hongxiang Chen

Curriculum Vitae

Education

2014–2017 **Masters of Science in Physics**, Southern University of Science and Technology of China (SUSTech).

Shenzhen, Guangdong, China.

2011–2013 High School, Guangzhou Tieyi Middle School.

Guangzhou, Guangdong, China.

Research

Interests

Topology O Condensed Matter Theory O Statistical Physics O Biophysics

Bachelor Thesis

Title Classification of Topological Insulators (in progress)

Supervisor Assistant Professor Wu Jiansheng

I will try to explorer different ways of classifying topological insulators.

Undergraduate Research

Topic Mechanical Analogy of Topological Insulator

- Calculates the eigenmodes of oscilation on a honeycomb lattices with/without the presence of Coriolis force
- Examines its symmetry using the analogy of quantum symmetries.
- o Tries to simulate the lattice using 3D-printed objects.

Physics Beyond Usual Curriculum

Conversant Topological Insulators and Superconductors, Abstract Algebra, Advanced Linear Algebra

Experienced Solid State Theory, (Real) Differential Geometry, Complex Geometry, Sheaf Coho-

Acquainted Quantum Many-body Theory, Discrete Mathematics

Seminars Attended

Topic Topological Insulators and Superconductors

Reference Topological Insulators and Topological Superconductors by B. Andrei Bernevig book

Computer skills

Conversant JAVA, MATLAB, LATEX, Vim

Intermediate Python, Linux System Administration

Basic Ruby, Bash

Communication Skills

o Good presentation skill

o Being leader of the philosophical society's debate team.

Languages

Chinese Mothertongue

English Fluent TOEFL score: 112

Deutsch Basic Basic words and phrases only

Awards

2014-2017 College Start-up Scholarship, CNY 24,000 SUSTech

2016 Excellent Student Scholarship, CNY 1,500 SUSTech

2015 Second Place in Debating Competition Student Debating Union, SUSTech

Hobbies

Classical Though all genuras are welcome, I particularly favor Symphony No.5 by Beethoven

Music and most works of Joe Hisaishi.

Handicrafts Fond of making things. My favorites the LEGO toys and Zhezhi (also called Origami

by the Japanese)

Social Connections

I am often nicknamed we.taper or just taper on the Internet.

Github Page http://www.github.com/we-taper/

Physics http://physics.stackexchange.com/users/45384

StackEx-

change

My Notes https://github.com/we-taper/Draft/ A "peep" into my life. There is no worry

because everything is copylefted!

Miscellaneous Activities

poster presentations

December My Panopticon.

2014 English Class: SUSTech.

Talks abou the growing threat posed by Internet of Things (IoT)

January A Review On Carbon Nanotube.

2014 General Chemistry Class: SUSTech.

About the Carbon nanotubes: what are they, what is its property, how it is produced and how can it be used as semiconductors.

November Advances in Origami.

2013 English Class: SUSTech.

Introduced about the new role of computer technology, more specifically, the program TreeMaker by Robert J. Lang.

2013 Caring for primary school children.

SUSTech Volunteer Association

October 2011 Asia-Pacific Robotics Championship China Qualifier - High School.

Taipei Yong-Le Elementary School