ongxiang Chen

http://github.com/we-taper/me/|we.taper@gmail.com Southern University of Science and Technology (SUSTech)

EDUCATION

SUSTECH

BSc in Physics

2016 - 2017 | Shenzhen, China

GPA: 3.76/4.0

GUANGZHOU TIEYI MIDDLE SCHOOL

HIGH SCHOOL

2011 - 2013 | Guangzhou, China

LINKS

GitHub: we-taper

https://github.com/we-taper

Notes: Study Notes

https://github.com/we-taper/Draft

SKILLS

COMPUTER

Conversant:

Java, Matlab, LaTEX, Vim

Intermediate:

Python, Linux System Administration

Basic: Rubv. Bash

PHYSICS BEYOND USUAL CUR-**RICULUM**

Conversant:

Topological Insulators and Superconductors,

Abstract Algebra

Experienced:

Solid State Theory.

(Real) Differential Geometry,

Complex Geometry, Algebraic Topology

Acquainted:

Quantum Many-body Theory,

Discrete Mathematics, Sheaf Cohomology

LANGUAGE

Chinese : Native

Cantonese : Conversational

English : Fluent German : Basic

RESEARCH INTEREST

Condensed Matter Theory • Topological State of Matter • Biophysics • Statistical **Physics**

RESEARCH EXPERIENCE

BACHELOR THESIS | Topic: Classification of Topological **INSULATORS**

In progress | Advisor: Prof. Jiansheng Wu

- To explore different ways of classifying topological insulators
- Possible Directions:
 - Apply techniques developed in non-interacting pictures to study the topological phenomena in classical mechanics
 - Study classification in other symmetry groups, such as the wallpaper groups

UNDERGRADUATE RESEARCH | TOPIC: MECHANICAL ANALOGY OF

TOPOLOGICAL INSULATOR

2015 - 2016 | Advisor: Prof. Jiansheng Wu

- Calculated the eigenmodes of oscillation on a honeycomb lattices with/without the presence of Coriolis force
- Examined its symmetry using the analogy of quantum symmetries
- Tried to simulate the lattice using 3D-printed objects

PROGRAMMING EXPERIENCE

COURSE PROJECT | GUI INTERFACE FOR SAKAI ON PC

2014 | in collaboration with Lingi Zhang (GitHub:zlqzcc), and Wenxuan Zhang

- GitHublink: https://github.com/we-taper/CourseProject_2.
- May interact with Sakai through its REST interface to check courses, its announcements, homework, and download course related resources.
- Has a notification system (Reminder).
- Runs on Java and tested on Windows, though theoretically is cross-platform.

AWARDS AND OTHER ACTIVITIES

Year	Title	Location
2014-2017	College Start-up Scholarship, CNY 24,000	SUSTech
2015-2016	Excellent Student Scholarship, 3 rd class, CNY 1,500	SUSTech
2013-2014	Excellent Student Award	SUSTech
2013	Second Place in Debating Competition	Student Debating
		Union, SUSTech
2013	Caring for primary school children	Volunteer Association,
		SUSTech
2011	Asia-Pacific Robotics Championship	Yong-Le Elementary
	China Qualifier - High School	School, Taipei