ZONGQI SHEN

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EDUCATION

Fudan University, Shanghai

Bachelor in Physics Department of Physics September 2018 - Present GPA Ranking: 5%

AWARDS

National Scholarship, 2020 China Undergraduate Physics Tournament the First Prize, 2019 Outstanding Student Scholarship Grade 2,2019 Outstanding Freshman Scholarship Grade 2,2018

RESEARCH INTERESTS

Condensed Matter Theory

- 1. quantum transport using NEGF method
- · 2. unconventional superconductivity and strongly-correlated system
- · 3. topological properties of materials

Condensed Matter Experiments

1. exotic quantum states in interface using transport techniques

TECHNICAL STRENGTHS

Computer Skills Python, C, Matlab, LATEX

Experimental Skills & Tools material growth, nanofabrication, transport measurement

RESEARCH EXPERIENCE

2D materials growth and device fabrication

November 2018-April 2019

· Under the instruction of Prof. Faxian Xiu, I growed some 2D materials like Bi_2O_2Se using CVD(chemical vapor deposition). Then I did EBL and other nanofabrication techniques.

Transport properties of topological superconductors

April 2019-present

· Under the instruction of Prof.Wei Li, I theoretically studied the Andreev reflection of high-order topological superconductors both numerically and analytically. In this project, I mastered the powerful NEGF method (nonequilibrium Green's function).

ADVANCED COURSES TAKEN

Advanced Quantum Mechanics Advanced Solid State Physics Physics of Superconductivity