

FanZheng Meng

UNDERGRADUATE STUDENT

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Education

Huazhong University of Science and Technology

Wu Han

BS UNDERGRADUATE DEGREE

Sep. 2022 - July. 2026

- Major in Physics (GPA: 3.93/4)
- Minor in CS
- research advisor: Professor Yu

Awards, Fellowships, & Grants

2023	National Encouragement Scholarship,	¥5000
2024	Model Student of Academic Records, University apartment	¥1200
2024	National Encouragement Scholarship,	¥5000

Research Experience

HUST-Magnetism and Spintronics Group(www.yutaolab.com)

Wuhan, China

ADVISOR: PROFESSOR. YU

Jan. 2025 - Present

- project: "Symmetry analysis of the coupling of triplet superconductor and dipole interaction"
Goal:
 1. Use group theory method to analyse the symmetry of intriguing system such as triplet superconductor coupling with magnetic field.
 2. Write down the G-L free energy of the system and seek potential mechanism to control the system.Contribution:

It's a new project conducted only by me.

Accomplishment:
 1. Use group theory method to write down the free energy of singlet (and triplet) superconductivity system with specific symmetry and graphene system with hexagonal symmetry.

Presentations

RESEARCH REPORT

Jan. 2025. *Symmetry of the order parameter for high-temperature superconductivity*. Group Report

Feb. 2025 *Phenomenological theory of unconventional superconductivity*. Group Report