

JIADONG WANG - 王佳栋

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[jdw-heaven\(wechat\)](#) | github.com/jdw-heaven | [jdw-heaven](#)

EDUCATION

Lanzhou University - B.Sc. in Physics 22/09-26/06(expected)

- Theoretical Physics
- Interested in Nuclear Fusion

RESEARCH

Complex Pendulum Motion of permanent magnet-rod under magnetic field confinement 23/03 - 24/03

The 14th China Undergraduate Physics Tournament(CUPT)

- A project in Lanzhou University Student Innovation and Entrepreneurship Action Plan
- Get the rough empirical formula for the pendulum period decay
- Calculate the magnetic field distribution of Cylindrical permanent magnet via numerical integration(in C code)
- Compare different numerical integration algorithms --- MC, Adaptive Simpson, Gauss and Romberg

The Energy Calibrate of HPGe Detector used in Fusion Reaction 24/03 - 25/03(expected)

Research Training

- A project in Lanzhou University Student Innovation and Entrepreneurship Action Plan(Cuiying Fund)
- Calibrate the HPGe Detector by ROOT program
- Calculate the energy resolution and detector efficiency
- Source-less calibrate by MC via Geant4 and improving the result using Machine Learning(in plan)

EXPERIENCE

Lanzhou University

Student Positions

- **Center for Youth Development** | Ministry Staff(22/09 - 24/06)
- **Center for Youth Development and Volunteer** | Minister(24/09 - 25/06(expected))
- **School of Physical Science and Technology Office** | Assistant(23/03 - 25/03(expected))

Institute of Modern Physics

24/07-24/08

Research Training

- Filling LN2
- Analysis Data
- Literature Research

HONOR

National Level | Scholarship 23/12

First Price | The Chinese Mathematics Competitions(Non-Mathematics Students), 14th, Gansu 23/03

Second Price | The Chinese Mathematics Competitions(Mathematics A Class), 15th, Gansu 23/12

Outstanding Student&Student Union Staff | Lanzhou University 23/12

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教育

兰州大学 - 物理学学士 22/09-26/06(expected)
• 理论物理
• 方向: 可控核聚变

科研

磁约束下永磁体棒的复摆运动 23/03 - 24/03

第十四届中国大学生物理学术竞赛试题(CUPT)
• 兰州大学大学生创新创业计划项目
• 实验总结周期衰减的大致实验规律
• 数值积分计算圆柱形永磁体的磁场分布(C语言)
• 比较不同数值积分算法 --- 蒙特卡罗(MC), 自适应辛普森(Adaptive Simpson), 高斯(Gauss)和龙贝格(Romberg)

用于聚变反应测量的高纯锗探测器(HPGe)的能量刻度 24/03 - 25/03(expected)

科研训练
• 兰州大学大学生创新创业计划项目(萃英基金)
• 通过ROOT程序进行高纯锗探测器的能量刻度
• 计算能量分辨以及探测效率
• Geant4蒙特卡罗无源刻度以及通过机器学习提高精度(计划)

经历

兰州大学

学生职务
• **青年发展中心** | 部员(22/09 - 24/06)
• **青发志愿中心** | 部长(24/09 - 25/06(expected))
• **物理科学与技术学院办公室** | 助理(23/03 - 25/03(expected))

近代物理研究所 24/07-24/08

科研训练
• 液氮灌装
• 数据分析
• 文献调研

HONOR

国家级 | 奖学金 23/12
一等奖 | 第十四届中国大学生数学竞赛(非数学类), 甘肃省 23/03
二等奖 | 第十五届中国大学生数学竞赛(数学A类), 甘肃省 23/12
优秀学生标兵、学生会干部 | 兰州大学 23/12