

**山西大同大学教学名师 —— 赵仁**

姓名	赵仁	性别	男	民族	汉族
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出生年月	1956.11	政治面貌	群众		
毕业学校	西安交大				
学位	博士	学历	博士研究生		
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**教学及科研成果简介**

**赵仁**，1956年11月生于山西朔州，联系地址：山西大同大学研究生处，大同，037009  
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**一、教育科研经历**

**学历教育**

2004.09 — 2007.12：西安交通大学攻读博士学位，理学博士  
 1995.09 — 1997.07：山西教育学院物理系  
 1978.09 — 1981.07：雁北师范专科学校物理系

**进修与培训**

1984.03 — 1985.01：华东师范大学物理系理论物理进修班学习  
 1986.09 — 1988.07：辽宁大学理论物理助教班，学习理论物理硕士研究生课程  
 1993.09 — 1994.07：北京师范大学物理系做国内访问学者

**工作经历**

1981.07：山西大同大学物电学院（雁北师范专科学校、雁北师范学院）任教,教授  
 2001.07：雁北师范学院学位办主任  
 2001.08：被聘为南昌大学兼职硕士生导师  
 2007.01：山西大同大学研究生处处长  
 2008.12：被聘为中北大学兼职博士生导师

**二、主要学术成果**

1. Ren Zhao, Hui-Hua Zhao, Meng-Sen Ma, Li-Chun Zhang, On the critical phenomena and thermodynamics of charged topological dilaton AdS black holes, Eur. Phys. J. C (2013) 73:2645
2. Lichun Zhang, Huaifan Li, Ren Zhao, Ronggen Cai, The Entropy of A Dielectric Black Hole, Modern Physics Letters A, 2013, 28 (07): 1350009
3. Ren Zhao, Mengsen Ma, Huaifan Li, Lichun Zhang, On Thermodynamics of Charged and Rotating Asymptotically AdS Black Strings, Advances in High Energy Physics, Volume 2013 (2013), Article ID 371084, 7 pages

4. Huihua Zhao, Guangliang Li, Lichun Zhang, Hawking and Unruh Effects of a 5-Dimensional Minimal Gauged Supergravity Black Hole by a Global Embedding Approach, *Entropy* 2013, 15, 1057-1068
5. Ren Zhao, Lichun Zhang, A new explanation for statistical entropy of charged black hole, *SCIENCE CHINA Physics, Mechanics & Astronomy*, 2013, 56(9): 1632-1635
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7. Lichun Zhang, Huaifan Li, Ren Zhao, Ronggen Cai. Entanglement entropy of acoustic black hole in Bose-Einstein Condensate. *Astrophysics and Space Science: Astrophys Space Sci* (2013) 344:451–454
8. Huaifan Li, Huihua Zhao, Lichun Zhang, Quantum statistical entropy of dielectric black hole, *International Journal of Theoretical Physics*: 2013, 52(2) : 362-367
9. Jianhua Shi, Shuangqi Hu, Ren Zhao, Entanglement entropy of a black hole and isolated horizon, *Astrophysics and Space Science: Astrophys Space Sci* (2013) 343:555–558
10. Huihua Zhao, Guangliang Li, Lichun Zhang, Generalized uncertainty principle and entropy of three-dimensional rotating acoustic black hole, *Physics Lett. A* 2012, 376: 2348-2351
11. Ren Zhao, Lichun Zhang, Huihua Zhao, Quantum statistical entropy of Schwarzschild-de Sitter spacetime *Astrophysics and Space Science*: 2012, 341: 675-679
12. Ren Zhao, Lichun Zhang Hawking radiation from a dielectric black hole, *Astrophys Space Sci* (2012) 338, 295–300
13. Cao Shuo, Zhu zonghong, Zhao Ren, Testing and selecting dark energy models with lens redshift data, *PHYSICAL REVIEW D* 84, 023005 (2011)
14. Lichun Zhang, Huaifan Li and Ren Zhao Thermodynamics of the Reissner-Nordstrom-de Sitter black hole, *SCIENCE CHINA Physics, Mechanics & Astronomy* 2011, 54(8):1384-1387
15. Lichun Zhang, Huaifan Li and Ren Zhao Hawking and Unruh effects of the cosmological horizon in a higher-dimensional Kerr-de Sitter spacetime by the global embedding approach, *Europhysics Letter*. 2011(94) :40003
16. 张丽春, 李怀繁, 赵仁. 利用新的整体嵌入方法研究高维旋转黑洞的 Hawking 效应和 Unruh 效应, *物理学报* 2011, 60(8): 080403
17. Lichun Zhang, Huaifan Li, Ren Zhao, Yueqin Wu, Thermodynamics of the five-dimensional Schwarzschild-de Sitter black hole, *Astrophys Space Sci*, 2011, 335(2):523-527
18. Lichun Zhang, Huaifan Li, Ren Zhao. Tunneling mechanism in higher-dimensional rotating black hole with a cosmological constant in the approach of dimensional reduction, *Astrophys Space Sci* (2011) 333: 457-462
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20. Lichun Zhang, Hai Lin, Huaifan Li, Ren Zhao. Radiation spectrum of rotating Gödel black hole and correction entropy, *Chines Physics C*, 2011, 35(4): 339-343
21. 张丽春, 林海, 李怀繁, 赵仁, Kerr-Newman 时空中带电旋转粒子的 Hawking 辐射, *中国科学 G 辑: 物理、力学、天文学*, 2011, 41(3): 221-226
22. Ren Zhao, Li-Chun Zhang, Yue-Qin Wu, Huai-Fan Li, Temperature and Energy of 4-

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23. Li Chun Zhang, Yue Qin Wu, Huai Fan Li, and Ren Zhao , Radiation Spectrum and Correction to the Entropy of the Kerr-(anti)de Sitter Black Hole in all Dimensions ,*Chinese Journal of Physics*, 2010, 48(4): 439-450
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### 三、主持或参与的教研、科研项目

#### 纵向课题：

1. 李怀繁、赵仁、郭雄英、赵惠华、刘芳：山西省青年科技研究基金“规范/引力对偶在强耦合凝聚态系统中的应用，(2012021003-4)”2012年1月-2014年12月
2. 李怀繁、赵仁、史建华、郭雄英、刘先锋：AdS/CFT 对在凝聚态物理中的应用(11205097)，国家自然科学基金青年基金。22万元，2013.01-2015.12
3. 张丽春、赵仁、李怀繁、马宇波、王晓伟：非引力黑洞的热辐射及相关特性的研究(11175109)，国家自然科学基金。52+52万元，2012.01-2015.12
4. 赵仁、张丽春、李怀繁、王晓明、郭雄英、刘芳、赵惠华：黑洞量子辐射与热性质(11075098)，国家自然科学基金。38+38万元，2011.01-2013.12
5. 赵仁、张丽春、武月琴等：黑洞熵与广义测不准关系(2006011012)，山西省自然科学基金。3+1.8万元，2007.01-2008.12
6. 赵仁、张丽春、林海等：引力效应与高能碰撞多重产生(20001009)，山西省自然科学基金。2+2万元，2000.1-2002.12
7. 赵仁、张丽春、林海等：黑洞物理与高能碰撞多重产生(971009)，山西省自然科学基金。3万元，1997.8-1999.8

#### 主持教改课题(项目)：

1. 赵仁、张丽春、林海等：普通物理学课程教学内容、方法及教育技术的整合与深化，山西省21世纪高等教育教学改革项目。
2. 赵仁、郭永等：师范院校开设科学教育课的研究，山西省教育厅教学改革项目

### 四、出版著作与教材

1. 郭永，赵仁主编：《科学教育丛书》：奇妙的微观世界(本人编著)、解开光之迷、探索原子内部的奥秘、揭开电与磁的秘密；北京：兵器工业出版社，2000年8月

### 五、教学成果获奖情况

#### 科研获奖

1. 2009年9月，赵仁、张丽春、李怀繁、武月琴、胡双启、张胜利：黑洞熵与广义测不准关系，获山西省高等学校科学技术奖(自然科学类)二等奖
2. 2006年2月，赵仁、张丽春、武月琴：引力效应与高能碰撞多重产生，获山西省科学技术奖(自然科学类)三等奖(2005-Z-3-009)
3. 2005年9月，赵仁、张丽春、武月琴：引力效应与高能碰撞多重产生，获山西省高等学校科学技术奖一等奖
4. 2003年4月，赵仁、张丽春、林海：黑洞物理与高能碰撞多重产生，获山西省科学技术奖(基础研究与应用基础研究类)二等奖(2002-Z-2-135)
5. 2002年11月，赵仁、张丽春、林海：黑洞物理与高能碰撞多重产生，获山西省高等学校科

学技术奖一等奖

### **教学获奖**

1. 2001年9月,郭永、张丽春、张子珍、赵仁:师范院校开设科学教育课的研究(教材),获山西省教学成果二等奖

### **六、取得荣誉**

1. 1995年被省教委评为山西省中青年骨干教师;
2. 1997年被山西大同大学校评为优秀教师;
3. 2000年评为山西大同大学教学名师;
4. 2001年评为山西省劳动模范;
5. 2006年评为山西大同大学教学名师;
6. 2007年评为大同市劳动模范,大同市劳动模范。
7. 2010年评为山西大同大学教学名师;
8. 2009年评为模范教师;

### **七、社会兼职**

1. 大同市十一届政协常委
2. 山西省十届政协委员