专家学者

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高山，男，1971年5月出生，辽宁辽阳人，现为山西大学科学技术哲学研究中心教授、博士生导师，2018年入选教育部青年长江学者。主要研究方向为科学哲学、物理学哲学、心灵哲学。

一、教育经历

1988.9-1992.7 北京航空航天大学，电子工程系，学士

1992.9-1995.7 中国科学院电子学研究所，信号与信息处理专业，硕士

2009.2-2012.2 澳大利亚悉尼大学，科学史与科学哲学系，博士

二、工作经历

1995.7-1996.12 北京邮电大学星际通信公司，工程师

1996.12-1999.7 深圳华为通信公司北京研究所，高级工程师

2000.4-2003.7 UT斯达康公司北京研究所，项目经理

2013.4-2017.1 中国科学院自然科学史研究所，副研究员

2017.1-至今山西大学科技与社会研究所，教授

三、学术论文

1.Shan Gao, The measurement problem revisited. Synthese (2017). First Online: 27 June 2017.https://doi.org/10.1007/s11229-017-1476-y.

2.Shan Gao, Is an Electron a Charge Cloud? A Reexamination of Schr?dinger’s Charge

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3.Shan Gao, An argument for ψ-ontology in terms of protective measurements. Studies in History and Philosophy of Modern Physics, 52, 198-202 (2015).

4.Shan Gao, How do electrons move in atoms? ? From the Bohr model to quantum mechanics.In F. Aaserud and H. Kragh (eds.), One Hundred Years of the Bohr Atom: Proceedings From a Conference, Scientia Danica. Series M: Mathematica et physica, vol. 1. Copenhagen: Royal Danish Academy of Sciences and Letters, 2015. pp. 450-464.

5.Shan Gao, Reality and meaning of the wave function. In S. Gao (ed.), Protective Measurement and Quantum Reality: Toward a New Understanding of Quantum Mechanics. Cambridge: Cambridge University Press, 2014.

6.Shan Gao, On the possibility of nonlinear quantum evolution and superluminal communication, International Journal of Modern Physics: Conference Series, 33, 1-6 (2014).

7.Shan Gao, Three possible implications of spacetime discreteness. In Space-Time Geometry and Quantum Events, Ignazio Licata (ed.) New York: Nova Science Publishers. 197-214 (2014).

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10.Shan Gao, Does gravity induce wavefunction collapse? An examination of Penrose's conjecture. Studies in History and Philosophy of Modern Physics, 44, 148-151 (2013).

11.Shan Gao, A discrete model of energy-conserved wavefunction collapse, Proceedings of the Royal Society A 469, 20120526 (2013).

12.Shan Gao, A quantum physical argument for panpsychism, Journal of Consciousness Studies, 20, 59-70 (2013).

13.Shan Gao, Is gravity an entropic force? Entropy special issue "Black Hole Thermodynamics", Jacob D. Bekenstein (ed.). 13, 936-948 (2011).

14.Shan Gao, Meaning of the wave function, International Journal of Quantum Chemistry, 111, 4124-4138 (2011).

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16.Shan Gao, On Diósi-Penrose criterion of gravity-induced quantum collapse, International Journal of Theoretical Physics, 49, 849–853 (2010).

17.Shan Gao, A quantum theory of consciousness, Minds and Machines, 18, 39-52 (2008).

18.Shan Gao, A model of wavefunction collapse in discrete space-time, International Journal of Theoretical Physics, 45, 1965-1979 (2006).

19.Shan Gao, A conjecture on the origin of dark energy, Chinese Physics Letters 22, 783 (2005).

20.Shan Gao, Quantum collapse, consciousness and superluminal communication, Foundations of Physics Letters, 17, 167-182 (2004).

四、学术著作

1.Shan Gao, Meaning of the Wave Function: In Search of the Ontology of Quantum Mechanics.Cambridge: Cambridge University Press. 2017.

2.Shan Gao, God Does Play Dice with the Universe. Beijing: Tsinghua University Press, 2009. (in Chinese)

3.Shan Gao, Einstein’s Ghost: The Puzzle of Quantum Entanglement (coauthored with Guang-Can Guo). Beijing: Beijing Institute of Technology Press, 2009. (in Chinese)

4.Shan Gao, Quantum: A Historical and Logical Journey. Beijing: Tsinghua University Press, 2003. (in Chinese)

5.Mary Bell and Shan Gao (ed), Quantum Nonlocality and Reality: 50 Years of Bell’s theorem. Cambridge: Cambridge University Press. 2016.

6.Shan Gao(ed), Protective Measurement and Quantum Reality: Toward a New Understanding of Quantum Mechanics. Cambridge: Cambridge University Press. 2015.

五、主持课题

1. 量子测量问题研究，国家社会科学基金项目 (16BZX021)

2. 波函数的诠释及其对解决量子测量问题的意义，中国科学院青年人才研教特别支持项目，2015-2017

3. 量子力学波函数的物理意义，教育部留学回国人员科研启动基金项目，2015-2016

4. 量子动态坍缩理论发展特征研究，中国科学院自然科学史研究所重点培育方向项目，2014-2015