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职 称：副教授

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## 个人简历

王刚成，副教授，理学博士。2013年7月东北师范大学博士毕业后留校任教，期间（2016.02-2017.01）赴英国利兹大学访问。研究方向为杨巴克斯特方程在量子计算与量子信息方面的应用，以及量子光学方面的问题。与合作者在相关研究方向取得了一系列有意义的研究成果。这些成果发表在Optics Express, Scientific Report, Quantum Information Processing等期刊上。至今已发表SCI研究论文60余篇。并作为项目负责人完成国家自然科学基金，吉林省科技厅基金。担任学术期刊Optics Express和Quantum Information Processing等的审稿人。

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### 【本科生课程】

1. 材料热力学与动力学
2. 物理学院专业选修课，偏微分方程，量子信息与量子计算
3. 大类平台课，普通物理B:光学

### 【学习工作经历】

200309-200706 东北师范大学 物理学院 理学学士  
200709-201306 东北师范大学 物理学院 理学博士  
201308-201905 东北师范大学 物理学院 讲师  
201602-201702 利兹大学（英国） 访问博士后  
201906-现在 东北师范大学 物理学院 副教授

### 【承担项目情况】

1. 国家自然科学基金青年项目，高维杨-巴克斯特方程研究及其在量子纠缠中的应用，11405026，2015-01 - 2017-12，23万，负责人
2. 吉林省科技厅青年科研基金，辫子群及其相关代数在多体量子纠缠描述中的应用研究，20150520083JH，2015-01 - 2017-12，6万元，负责人
3. 吉林省教育厅项目，周期驱动量子电路系统的特性研究及其在量子信息处理中的应用，2.5万元，2019.01-2020.12，负责人

### 【发表文章列表】

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- [2]X. Yu, G. Wang\*, C. Sun\*\*, and K. Xue, "Photon Blockade in the Anisotropic Quantum Rabi Model with Biased Term," Int. J. Theor. Phys., vol. 59, no. 6, pp. 1897-1904.
- [3]C. Zhou, X. Zhao, H. Huang, G. Wang, L. Song, and K. Xue\*, "Multi-resolution single-pixel imaging via Hadamard 'pipeline' coding," Appl. Phys. B Lasers Opt., vol. 126, no. 10, pp. 1-10.
- [4]Y. Liu, G. Wang\*, C. Sun, and K. Xue, "Topological Basis Realization Associated with Spin-1 Non-Hermitian XXZ Model," Int. J. Theor. Phys., vol. 59, no. 8, pp. 2589-2598.

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- [1] G. C. Wang, et al., simulating Anisotropic quantum Rabi model via frequency modulation, Scientific Reports, 9, 4569 (2019)
- [2] J. L. Li, G. C. Wang \*, et. Al., Realization of Multi-qubit Rabi Model and Multi-qubit Entangled States in Circuit QED System , Scientific Reports, 9, 1380 (2019)

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- [1] S. Gong, G. C. Wang \*, et Al., Topological basis realization associated with Hermitian and non-Hermitian Heisenberg XXZ model, EPL-Europhys. Lett., 122, 5004 (2018).
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- [4] Yang Q., et al., The Topological Basis Realization for Six Qubits and the Corresponding Heisenberg Spin 1/2 Chain Model, International Journal of Theoretical Physics, 57, 1839-1847 (2018).
- [5] Shen H. Z., et al., Unconventional photon blockade from bimodal driving and dissipations in coupled semiconductor microcavities, J Phys. B-At. Mol. Opt., 51, 035503 (2018).

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