

导师简介				
姓 名	熊标	所在学院	物理与电子科学学院	
性 别	男	出生年月	1992.02	
学历学位	博士	职 称	副教授	
毕业院校	大连理工大学	指导专业	物理学、光学、计算机、 数学、电子信息	
研究方向	量子光学、量子精密测量、量子信息与量子计算、人工智能、量子器件、量子电 池、拓扑绝缘体			
主要社会 兼职	湖北省量子信息协会理事			
主要代表 性成果	1.B. Xiong, Q. Bin, S.-L. Chao, J.-B. Liu, and X.-Y. Lü, Two-photon decay enhanced even photon bundle emission, Phys. Rev. Research 7, 013238 (2025). 2.Z. Yang, B. Xiong, C. Zhao, and L. Zhou, Generation of multipartite entanglement in a cavity-magnomechanical system, Opt. Express 33, 5123 (2025). 3.H. Wang, Z. Zhang, B. Yang, S. Chao, and B. Xiong*, Duffing Nonlinearity - Enhanced Optomechanical Mass Sensor, Adv Quantum Tech 2400623 (2025). 4.C. Zhao, W. Li, B. Xiong, W. Gong, and L. Zhou, Dissipatively stabilized squeezed-cat qubits and their application in thermometry, Phys. Rev. A 110, 043517 (2024). 5.Z. Yang, C. Zhao, and B. Xiong*, Enhancing mechanical cooling by phase-matched amplification in a cavity magnomechanical system, Eur. Phys. J. Plus 139, 455 (2024). 6.C.-H. Li, B. Xiong*, Y. Wei, and C.-J. Shan, Enhanced magnon blockade in a magnomechanical system, Phys. Scr. 99, 035118 (2024). 7.S. Lei, X. Wang, H. Li, R. Peng, and B. Xiong*, High-fidelity and robust optomechanical state transfer based on pulse control, Appl. Phys. B 129, 193 (2023). 8.Y. Wei, B. Xiong*, C. Shan, J. Liu, and X. Wang, Phonon blockade in a quadratically coupled optomechanical system with two-phonon driving, Results in Physics 44, 106202 (2023). 9.B. Xiong, S. Chao, C. Shan, and J. Liu, Optomechanical squeezing with pulse modulation, Opt. Lett. 47, 5545 (2022). 10.Y. Zeng, B. Xiong, and C. Li, Suppressing laser phase noise in an optomechanical system, Front. Phys. 17, 12503 (2022). 11.Y. Wei, X. Wang, B. Xiong*, C. Zhao, J. Liu, and C. Shan, Improving few-photon optomechanical effects with coherent feedback, Opt. Express 29, 35299 (2021). 12.Y.-X. Zeng, T. Gebremariam, J. Shen, B. Xiong, and C. Li, Application of machine learning for predicting strong phonon blockade, Appl. Phys. Lett. 118,			

	164003 (2021). 13.R. Peng, C. Zhao, Z. Yang, B. Xiong, and L. Zhou, Nonreciprocal Amplification in Coupled - Rotating Cavities Around Exceptional Points, Annalen Der Physik 533, 2000405 (2021). 14.X. Li, B. Xiong, S. Chao, C. Zhao, H.-T. Tan, and L. Zhou, Remote weak-signal measurement via bound states in optomechanical systems, Commun. Theor. Phys. 73, 025102 (2021). 15.B. Xiong, X. Li, S. Chao, Z. Yang, R. Peng, and L. Zhou, Strong Squeezing of Duffing Oscillator in a Highly Dissipative Optomechanical Cavity System, Annalen Der Physik 532, 1900596 (2020). 16.B. Xiong, X. Li, S.-L. Chao, Z. Yang, W.-Z. Zhang, W. Zhang, and L. Zhou, Strong mechanical squeezing in an optomechanical system based on Lyapunov control, Photon. Res. 8, 151 (2020).
电子邮箱	biaoxjw@hbnu.edu.cn
备注	