CHUNG TING KE

Institute of Physics & Research Center for Critical Issues,
Academia Sinica, Taipei, Taiwan
Assistant Research Fellow

ctke@as.edu.tw | chungtingke@gmail.com |+886227896748

EDUCATION

Duke University, Physics, Ph.D. *2010 – 2017*

Duke University, Electrical and Computer Engineering, M. Sc. *2015 – 2017*

National Chiao Tung University, Electrophysics, M. Sc. *2005 – 2007*

National Central University, Atmosphere Science, B. S. *2001 – 2005*

PROFESSIONAL EXPERIENCE

Research Center for Critical Issues: Assistant Research Fellow *2024 – now*

Institute of Physics, Academia Sinica: Assistant Research Fellow *2021 – now*

QuTech, Delft University of Technology: Postdoctoral Researcher *2017 – 2021*

Institute of Physics, Academia Sinica: Research Assistant *2008 – 2010*

SELECTED PUBLICATIONS (Google Scholar)

1. M. A. C. Aguila, N.-Y. Li, C.-H. Ma, L.-C. Hsiao, Y.-S. Huang, Y.-C. Chen, T.-H. Lee, C.-C. Chang, J.-Y. Wang, S.-Y. Huang, H.-S. Goan, C.-H. Wang, C.-S. Wu, C.-D. Chen, C.-T. Ke*, "Characterizing and Mitigating Flux Crosstalk in Superconducting Qubits-Couplers System" APL Quantum 3, 016112 (2026)
2. **C.-T. Ke**, J.-Y. Tsai, Y.-C. Chen, Z.-W. Xu, E. Blackwell, M. A. Snyder, S. Weeden, P.-S. Chen, C.-M. Lai, S.-S. Sheu, Z. Yang, C.-S. Wu, A. Ho, R. McDermott, J. Martinis, C.-D. Chen "Scaffold-Assisted Window Junctions for Superconducting Qubit Fabrication" arXiv:2503.11010(2025)
3. K.-L. Chiu, A. J Lasrado, C.-H. Lo, **C.-T. Ke**, V. Mosallanejad, Y.-H. Lin, "Integrating quantum materials into superconducting qubits" Mater. Quantum. Technol. 5 023002 (2025)
4. K.-L. Chiu, Y.-Y. Chang, A. J. Lasrado, C.-H. Lo, Y.-H. Chen, T.-Y. Hsu, Y.-C. Chen, Y.-C. Tsai, Samina, Y.-H. Lin, **C.-T. Ke**, "Flux tunable graphene-based superconducting quantum circuits coupled to 3D cavity" Physical Review Applied 23, 034059 (2025)

RESEARCH INTERESTS

Research field: quantum transport, superconducting qubits, topological superconductivity, quantum dot, Josephson junction, graphene and carbon-nanotube, 2D materials, low noise measurement at milliKelvin range.

SERVICE

Reviewer for Journals: Nature, Nature Nanotechnology, PNAS, Nature Communications, Physics Review Series, NPJ quantum, Science Advances, Scientific Reports, and APL quantum