



**鐘元良 助理教授**

Y.L. Zhong

物理系助理教授

電話：03-2653217

傳真：03-2653299

E-mail：whchang@cycu.edu.tw

**經歷**

2006, 9 ~ 2007, 2  
日本 NTT Basic Research Laboratories 客員研究員.

2006, 9 ~ 2007, 2  
東京理科學大學 博士後研究員.

2004, 8, ~ 2006, 8  
日本 NTT Basic Research Laboratories, 電子自旋元件研究組 博士後研究.

2003, 1 ~ 2004, 8,  
中央研究院物理所 博士後研究.

**現職**

物理系助理教授

**專長**

凝態物理 (Condensed matter physics)  
低溫物理實驗 (Low temperature physics experiment)  
介觀物理實驗 (Mesoscopic physics experiment)  
量子元件 (Quantum electronic devices)  
奈米技術 (Nanotechnology)  
奈米碳管 (Carbon nanotubes)

**研究領域**

介觀物理 (Mesoscopic physics)  
量子傳輸 (Quantum transport)  
奈米碳管 (Carbon nanotubes)  
石墨薄膜及碳元素相關材料. (Graphene and Carbon related material)

**可能之應用**

新一代的電子元件和感測器等之應用. Novel electronic devices and sensors.

**個人研究成果** (Selected paper 5 篇)

1、"Observation of a linear mean-free-path dependence of the electron-phonon scattering rate in thick AuPd films", Y.L. Zhong and J.J. Lin, *Phys. Rev. Lett.* **80**, 588(1998). (SCI)

2、"Electron-electron scattering times in low-diffusivity thick RuO(2) and IrO(2) films", J.J. Lin, W.Xu, Y.L. Zhong, J.H. Huang and Y.S. Huang, *Phys Rev. B* **59**, 344(1999). (SCI)

3、"Effect of annealing on electron dephasing in three-dimensional polycrystalline disordered metals", J.J. Lin, Y.L. Zhong, and T.J. Li, *Europhys. Lett.* **57**, 872 (2002). (SCI)

4、"Electronic transport in insulating AlPdRe quasicrystals",? Ralph Rosenbaum, Tim Murphy, Bruce Brandt, ?C.R. Wang, Y.L. Zhong, S. W. Wu, S.T. Lin,? and J.J. Lin, *J. Phys.: Condens*

Matter **16**, 821(2004). (SCI)

5、"**Superconducting proximity effect in single-walled carbon nanotubes between NbN electrodes**", Y.L. Zhong, T. Akazaki, K. Kanzaki, Y. Kobayashi and H. Takayanagi, Sci. Tech. Adv. Mater. **7**, S78(2006). (SCI)