

BRIEF VITAE of Chin-Sen Ting

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Chin-Sen Ting, Professor of Physics
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Houston, Texas 77204-5932 (e-mail address : "ting@uh.edu")

Education—B.S. National Taiwan University, **and** M. S. National Tsinghua University
Ph.D. in Physics, University of California, San Diego (1970)

Employment-- Postdoctoral Research Associates at NYU and Brown University (1970-76)
Assistant Professor and Associate Professor of Physics/University of Houston
(1976-1986)
Professor of Physics /University of Houston (1986 to present)
Principle Investigator in Theory/Texas Center for Superconductivity (1989 to present)

Society and Honor--Fellow, American Physical Society/Division of Condensed Matter Physics (1999)

Research Area-- Condensed matter theory including many-particle effect and transport theory in various solid state systems, superconductivity in copper oxide materials and iron pnictides, electronic properties in graphene, spin-orbit physics in various two dimensional systems, strongly correlated electron systems, magnetism, metal-insulator transition, electronic and optical properties in semiconductors.

Current Research Support –Grants: A) 330K (2015 to 2018, no overhead cost) from the Robert A. Welch Foundation, and B) 130K (2016 to 2017, no overhead cost) from the Texas Center for Superconductivity at the University of Houston via Texas State Fund. **Research Personnel:** Currently there are 3 research associates with Ph. D in physics and 3 graduate students in my group.

Publication List (more than 200 publications in PRB including 30 in PRB-Rapid Comm, and 36 in PRL)

A. Five Most Important Publications:

- *X. Lei and C. S. Ting, "Green-Function Approach to Nonlinear Transport for Electron - Impurity - Phonon System in a Strong Electric Field," Phys. Rev., B32, 1112, (1985).
- *Z. D. Wang and C. S. Ting, "Anomalous Hall Effect Associated With Pinning in High κ Superconductors," Phys. Rev. Lett., 67,3618 (1991).
- *Y. Ren, J. H. Xu and C. S. Ting "Ginzburg-Landau Equations and Vortex Structures for d-Wave Superconductors" Phys. Rev. Lett., 74, 3680 (1995).
- *L. Sheng, D. N. Sheng and C. S. Ting "Theory of Colossal Magnetoresistance in $\text{La}_{1-x}\text{Ba}_x\text{MnO}_3$ Compound" Phys. Rev. Lett. 79, 1710 (1997).
- *L. Sheng, D. N. Sheng and C. S. Ting, "Spin-Hall effect in two-dimensional electronsystems with Rashba spin-orbit coupling and disorder", Phys. Rev. Lett. 94, 016602 (2005).

B. Five Recent Publications from Ting's group:

- *J. Li, Jin An, C. S. Ting, "Interaction-induced localization of mobile impurities in ultra-cold systems" Scientific Reports 3, 3147 (2013)
- *L. H. Pan, J. Li, Y. Y. Tai, M. J. Graf, J. X. Zhu, and C. S. Ting, "Evolution of quasiparticle states with and without a Zn-impurity in doped 122 iron-pnictides" Phys. Rev. B 90, 13450 (2014)
- *Y. Y. Tai, C. J. Wang, M. J. Graf, J.-X. Zhu, and C. S. Ting, "Emergent topological mirror insulator in t_{2g} -orbital systems", Phys. Rev. B **91**, 041111(Rapid Comm.) (2015)
- * Hongyan Lu, Lei Hao, Rui Wang and C. S. Ting "Ferromagnetism and superconductivity with possible p+ip pairing symmetry in partially hydrogenated graphene" Phys. Rev. B 93, 241410 (Rapid Comm.) (2016).
- *Lei Hao and C. S. Ting, "Searching for two-dimensional Weyl superconductors in heterostructures", Phys. Rev. B 95, 064513 (2017)

