

Publication List of Tzay-Ming Hong

A. Refereed Papers

- 1 **T. M. Hong** and J. M. Wheatley, "Corrections to the Hall mobility",
Phys. Rev. B **42**, 6492-6297 (1990), 6 citations
- 2 **T. M. Hong** and J. M. Wheatley, "Diamagnetism in the dissipative regime",
Phys. Rev. B **43**, 5702-5705 (1991), 3 citations
- 3 J. M. Wheatley and **T. M. Hong**, "Coherence properties of holes subject to a fluctuating spin
chirality", **Phys. Rev. B** **43**, 6288-6291(R) (1991), 20 citations
- 4 **T. M. Hong** and S. F. Edwards, "Formulations of polymer network theory",
Polymer Comm. **32**, 162-163 (1991)
- 5 **T. M. Hong** and S. F. Edwards, "A note on the instability in kinetic gelation",
Polymer Comm. **32**, 194-195 (1991)
- 6 **T. M. Hong**, "Stationary forms of polymer chains", **Polymer Comm.** **33**, 1326-1327 (1992)
- 7 **T. M. Hong**, "Magnetic correlations in Kondo lattice problem",
J. Magn. Magn. Mater. **108**, 91-92 (1992)
- 8 **T. M. Hong** and G. A. Gehring, "On the mean-field theory of antiferromagnetically ordered
Kondo lattices", **J. Magn. Magn. Mater.** **108**, 93-94 (1992), 5 citations
- 9 **T. M. Hong** and G. A. Gehring, "Mean-field results for the Kondo lattices at high magnetic
fields", **Phys. Rev. B** **46**, 231-236 (1992), 12 citations
- 10 **T. M. Hong**, "Mean-field expression for the characteristic Gruneisen parameter of the Kondo
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- 11 **T. M. Hong***, G. A. Gehring, and R. Wojciechowski, "Calculation of the temperature depen-
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- 12 **T. M. Hong***, "Reaction rate study of a statistical disentangling model",
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- 13 **T. M. Hong***, "Possible deduction of ferromagnetic intersite correlations in the heavy-fermion
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- 14 **T. M. Hong*** and Joseph Wheatley, "Collective effects near a staggered flux phase instability",
Chin. J. Phys. **31**, 783-91 (1993)
- 15 **T. M. Hong***, S. J. Sun, and J. H. Lin, "Quantum particles in a fluctuating uniform magnetic
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- 16 S. J. Sun, M. F. Yang*, and **T. M. Hong**, "Magnetic properties of the symmetric Periodic
Anderson model in infinite dimensions", **Phys. Rev. B** **48**, 16123-16126 (1993), 14 citations
- 17 M. F. Yang*, S. J. Sun, and **T. M. Hong**, "Slave-Boson mean-field theory v.s. variational-wave
function approach for Periodic Anderson Model", **Phys. Rev. B** **48**, 16126-16129 (1993), 6 citations
- 18 **T. M. Hong*** and J. H. Lin, "Two-body problems with an infinite-potential boundary condition",
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- 19 **T. M. Hong***, S. J. Sun, and J. H. Lin, "Field dependence of the anomalous Hall resistance of the heavy-fermion compounds", **Physica B 199&200**, 209-210 (1994)
- 20 **T. M. Hong**, S. J. Sun, and M. F. Yang, "Groundstate magnetic properties of the periodic Anderson model with finite U", **Physica B 199&200**, 222-223 (1994)
- 21 J. H. Lin, **T. M. Hong**, and S. J. Sun, "Effect of hybridization anisotropy on U-based heavy-fermion compounds", **Physica B 199&200**, 55-56 (1994)
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- 23 **T. M. Hong** and S. J. Sun, "Antiferromagnetism and superconductivity in heavy fermion compounds", **Chin. J. Phys.** **32**, 871-877 (1994)
- 24 **T. M. Hong** and J. H. Lin, "A Schottky-like anomaly in systems with finite number of layers", **Chin. J. Phys.** **33**, 133-8 (1995)
- 25 **T. M. Hong** and J. H. Lin, "Specific heat of ideal particles in multilayer systems", **Phys. Rev. B** **52**, 7898-7900 (1995), 1 citation
- 26 **T. M. Hong** and J. H. Lin, "Thermodynamic properties of ideal particles in a finite number of layers", **Physica A** **221**, 109-116 (1995)
- 27 S. J. Sun, **T. M. Hong**, and M. F. Yang, "Phase diagram of the two-dimensional periodic Anderson model at half-filling", **Physica B** **216**, 111-115 (1995)
- 28 S. J. Sun, C. Y. Tsau, and **T. M. Hong**, "Influence of electron-phonon interaction to the periodic Anderson lattice", **Physica B** **217**, 107-110 (1996), 2 citations
- 29 S. J. Sun, C. Y. Tsau, and **T. M. Hong**, "Magnetic properties of the Anderson lattice in second order U-perturbation", **Chin. J. Phys.** **34**, 77-83 (1996)
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- 31 S.J. Sun and T.M. Hong, "Superconducting UPt₃ under pressure", **Chin. J. Phys.** **34**, 546-551 (1996)
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- 34 T. M. Chang and **T. M. Hong**, "One-dimensional interacting Bose gas in an infinite potential well", **Chin. J. Phys.** **35**, 570-6 (1997)
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- 38 H. F. Meng and **T. M. Hong**, "Carrier generation mechanism for photoconductivity in

- conjugated polymers", **Phys. Rev. B** **61**, 9913-6 (2000), 10 citations
- 39 C. Y. Mou* and **T. M. Hong**, "Transport in quantum wells in the presence of interface roughness", **Phys. Rev. B** **61**, 12612-5 (2000), 25 citations
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 - 47 Wei Chen*, **T. M. Hong**, and H. H. Lin, "Semiclassical quantizations rule for the bound-state spectrum in quantum dots: Scattering phase approximation", **Phys. Rev. B** **68**, 205104 (2003), 6 citations
 - 48 W. Chen*, **T. M. Hong**, and H. H. Lin, "Scattering phase approach for the energy spectrum in quantum dot", **Physica E** **18**, 85-86 (2003), 1 citations
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- 71 C. S. Wen, J. H. Hsiao, K. T. Lin, **T. M. Hong**, J. C. Chen*, T. Ueda, and S. Komiyama, “Observation of resonance conductance in a quantum point contact with a tunable channel potential”, **Phys. Rev. B** **82**, 115416 (2010), 1 citation
- 72 C. H. Chang and **T. M. Hong***, “Interlayer exchange coupling theory beyond the proximity-force approximation”, **Phys. Rev. B** **82**, 094415 (2010), 2 citations
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- 75 K.-P. Tung, C. C. Chen, P. W. Lee, Y. W. Liu, **T. M. Hong**, K. C. Hwang, J. Hsu, J. White, and A. C.-M. Yang*, “Large enhancements in optoelectronic efficiencies of nano-plastically stressed conjugated polymer strands”, **ACS Nano**. **5**, 7296 (2011), 5 citations
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- 82 C. H. Chang*, K. P. Dou, Y. C. Chen, T. M. Hong, and C. C. Kaun*, “Engineering the interlayer exchange coupling in magnetic trilayers”, **Sci. Rep.** **5**, 16844 (2015)
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B. Other publications (published in 物理雙月刊 unless otherwise stated)

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- 2 洪在明，兩個粒子的薛丁格方程式，15 卷 5 期，666-668 頁(1993)
- 3 洪在明，幾個和無窮高位能有關的經驗，15 卷 6 期，792-795 頁(1993)
- 4 洪在明、單中杰和林怡美，如何估計摩擦係數？15 卷 3 期，368-369 頁(1994)
- 5 洪在明、單中杰和林怡美，幾個和摩擦係數有關的常識，16 卷 4 期，496-497 頁(1994)
- 6 洪在明、林志鴻和林高進，一維電子氣體的比熱，16 卷 5 期，571-573 頁(1994)
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- 13 洪在明、何仁碩、陳摘文和林志駿，重力場在不同慣性座標系的轉換，
18 卷 3 期，401-402 頁(1996)
- 14 洪在明、周宗憲、林志駿和陳摘文，氣泡的大小，18 卷 4 期，507-509 頁(1996)
- 15 洪在明、張明哲、陳摘文和林志駿，不同慣性座標系在介質中的時空轉換，
18 卷 5 期，593-594 頁(1996)
- 16 洪在明、張明哲、陳摘文和林志駿，和摩擦力有關的幾個普物題目，
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- 17 洪在明、牟中瑜、陳摘文和林志駿，物體底部的正向力如何分佈？
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- 18 洪在明、侯汝純、陳摘文和林志駿，需要考慮應變的普物題目，19 卷 2 期，255-257 頁(1996)
- 19 洪在明、紀延平、陳摘文和林志駿，又是狹義相對論的題目，19 卷 3 期，317-318 頁(1996)
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- 24 洪在明和胡崇德，物理張老師信箱，22 卷 5 期，517-525 頁(2000)
- 25 洪在明和林秀豪，又是狹義相對論的問題，24 卷 2 期，383-384 頁(2002)
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- 34 洪在明，波卡為什麼沒吃幾片就空了，34 卷 5 期，416-418 頁(2012)
- 35 洪在明譯，希格斯玻色子現身，科學人 128 期，22 頁(2012)
- 36 洪在明譯，「恰到好處」的吉他，科學人 129 期，19 頁(2012)
- 37 洪在明譯，材料也懂自我設計，科學人 129 期，25 頁(2012)
- 38 洪在明，DNA 搭乘頭等艙，65-73 頁（清華大學出版社，五南圖書出版公司，2012）
- 39 洪在明譯，按比例縮小，科學人 130 期，21 頁(2012)
- 40 洪在明譯，易碎才不易碎，科學人 130 期，24 頁(2012)
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- 43 沈維昭、周明翰、汪依平、簡若帆、張景皓、洪順興和洪在明，和故宮博物院合作探討的起瓦現象，物理雙月刊 35 卷 1 期，68-74 頁(2013)
- 44 洪在明譯，鑽石行星，科學人 132 期，14 頁(2013)
- 45 洪在明譯，失蹤的年代，科學人 132 期，15 頁(2013)
- 46 洪在明譯，行星環理論，科學人 133 期，15 頁(2013)
- 47 洪在明譯，航海家 1 號還沒遠去，科學人 133 期，16 頁(2013)
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