

References

- Anderson, P. W. Science **235**,1196 (1987).
- Bardeen, J., L. N. Cooper, and J. R. Schrieffer. Phys. Rev. **108**,1175 (1957).
- Baskaran, G., Z. Zou, and P. W. Anderson. Solid State Comm. **63**, 973 (1987).
- Bednorz, J. G., and K. A. Müller. Z. Phys. B **64**, 189 (1986).
- Chaudhari, P., and S. Y. Lin. Phys. Rev. Lett.**72**, 2161 (1994).
- Chien, T. R., Z. Z. Wang, N. P. Ong. Phys. Rev. Lett.**67**, 2088 (1991).
- Cooper, L. N. Phys. Rev. **104**,1189 (1956).
- Ding, H., J. C. Campuzano, and J. Jeanning. Phys. Rev. Lett. **74**,2784 (1995).
- Ding, H., T. Yokoya, J. C. Compuzano, T. Takahashi, M. Randeria, M. R. Norman, T. Mochiku, K.Kadowaki, and J. Giapintzakis. Nature**382**, 51 (1996).
- Levi. B. G. Phys. TodayJan.19 (1996).
- Emery, V. J., and G. Reiter. Phys. Rev.B **38**, 4548 (1988).
- Fetter, A. L., and J. D. Walecka. Quantum Theory of Many-Particle System, McGraw-Hill, Singapore, 1995.
- Fröhlich, H. Phys. Rev. **79**, 845 (1950).
- Getino, J. M., M. de Llano, and H. Rubio. Phys. Rev. B **48**, 597 (1993).
- Gotliar, G. Phys. Rev. B **37**, 3664 (1988).
- Gross, C., R. Joynt, and T. M. Rice. Phys. Rev. B **36**, 8190 (1987).
- Hazen, R. M., L. W. Finger, R. J. Angel, C. T. Prewitt, N. L. Ross, C. G. Hadidiacos, D. R. Veblen, Z. Z. Sheng, A. Al Eli, and A. M. Hermann. Phys. Rev. Lett. **60**, 1657 (1988).
- Houssa, M. and M. Ausloos. Physica C**265**, 258 (1996).
- Hubbard, J. Proc. Roy. Soc. (London) **A276**, 238 (1963).

- Hwang, H. Y., B. Batlogg, H. Takagi, H. L. Kao, J. Kwo, R. J. Kava, J. J. Kajewski, and W. F. Peck Jr. Phys. Rev. Lett. **72**, 2636 (1994).
- Kamerlingh Onnes, H. Leiden Comm. **120b**, **121b**, **122c** (1911).
- Kampf, A., and J. R. Schrieffer Phys. Rev. B **42**, 7967 (1990).
- Kirtley, J. R., C. C. Tsuei, J. Z. Sun, C. C. Chi, L. S. Yu-Jahns, A. Gupta, M. Rupp, and M. B. Ketchen. Nature **373**, 225 (1995).
- Kouznetsov, K. A., A. G. Sun, B. Chen, A. S. Katz, S. R. Bahcall, J. Clarke, R. C. Dynes, D. A. Gajewski, S. H. Han, M. B. Maple, J. Giapintzakis, J. T. Kim, and D. M. Ginsberg. Phys. Rev. Lett. **79**, 3050 (1997).
- Krunavakarn, B., P. Udomsmuthirun, S. Yoksan, I. Grosu, and M. Crisan. J. Supercond. **11**, 271 (1998).
- Labbe, L., and J. Bok. Europhys. Lett. **3**, 1225 (1987).
- Liu, M., D. Y. Xing, and Z. D. Wang. Phys. Rev. B **55**, 3181 (1997).
- London, F. and H. London. Proc. Roy. Soc. (London) **A419**, 71 (1935).
- Loram, J. W., K. A. Mirza, J. R. Cooper, and W. Y. Liang. Phys. Rev. Lett. **71**, 1740 (1993).
- Ma, J., C. Quitmann, R. J. Kelly, H. Berger, G. Margaritondo, and M. Onellian. Science **267**, 862 (1995).
- Maeda, H., Y. Tanaka, K. Fukutomi, and T. Asano. Jap. J. Appl. Phys. **27**, L29 (1988).
- Maple, M. B. J. Magn. Mater. **177**, 18 (1998).
- Markiewicz, R. S. Int. J. Mod. Phys. B **5**, 2037 (1991).
- Meissner, W., and R. Ochsenfeld. Naturewiss. **21**, 787 (1933).
- Millis, A. J., H. Monien, and D. Pines. Phys. Rev. B **42**, 167 (1990).
- Miyake, K., S. Schmitt-Rink, and C. M. Varma. Phys. Rev. B **34**, 6554 (1986).
- Monthoux, P., A. V. Balatsky, and D. Pines. Phys. Rev. Lett. **67**, 3448 (1991).

- Musaelian, K. A., J. Betouras, A. V. Chubukov, and R. Joynt. Phys. Rev. B **53**, 3598 (1996).
- Newns, D. M., P.C. Pattaik, and C. C. Tsuei. Phys. Rev. B **43**, 3075 (1991).
- Pakokthom, C., B. Krunavakarn, P. Udomsamuthirun, and S. Yoksan. J. Supercond. **11**, 429 (1998).
- Persson, B. N., and J. E. Demuth. Phys. Rev. B **42**, 8057 (1990).
- Ratanaburi, S., P. Udomsamuthirun, and S. Yoksan. J. Supercond. **9**, 485 (1996).
- Rossat-Mignod, J., L. P. Regnault, C. Vettier, P. Bourges, P. Burlet, J. Bossy, and G. Lapertot. Physica C **185-189**, 86 (1991).
- Ruckenstein, A. E., P. J. Hirschfeld, and J. Appel. Phys. Rev. **B36**, 857 (1987).
- Sarkar, Sujit, A.N. Das. Phys.Rev.**B49**, 13070 (1994).
- Sarkar, Sujit, S. Basu, and A.N. Das. Phys.Rev.**B51**, 12858 (1995).
- Schrieffer, J. R., X. G. Wen, and S. C. Zhang. Phys. Rev. B **39**, 11663 (1989).
- Sheng, Z. Z., and A. M. Hermann. Nature **332**, 55 (1988).
- Sun, A. G., D. A. Gajewski, M. B. Maple, and R. C. Dynes. Phys. Rev. Lett.**72**, 2267 (1994).
- Takigawa, M., A. P. Reyes, P. C. Hammel, J. D. Thomson, R. H. Heffer, Z. Fisk, and K. C. Ott. Phys. Rev. B**43**, 247 (1991).
- Tallon, J. L., J. R. Cooper, P. de Silva, G. V. M. Williams, and J. W. Loram. Phys. Rev. Lett.**75**, 4114 (1995).
- Tsuei, C. C., D. M. Newns, C. C. Chi, and P. C. Pattaik. Phys. Rev. Lett. **65**, 2724 (1990).
- Tsuei, C. C., C. C. Chi, D. M. Newns, P. C. Pattaik, and M. Däumling. Phys. Rev. Lett. **69**, 2134 (1992).
- Tsuei, C.C., J. R. Kirtley, C. C. Chi, L. S. Yu-Jahnes, A. Gupta, T. Shaw, J. Z. Sun, and M. B. Ketchen. Phys. Rev. Lett. **72**, 593 (1994).

- Van Hove, L. Phys. Rev. **89**, 1189 (1953).
- Virosztek, A., and J. Ruvald. Phys. Rev. B **42**, 4064 (1990).
- Warren, W. W. Jr., R. E. Welstedt, G. F. Brenert, R. J. Cava, R. Tycko, R. F. Bell, and G. Dabbagh. Phys. Rev. Lett.**62**, 1193 (1989).
- Wei, J. Y. T., C. C. Tsuei, P. J. M. van Bentum, Q. Xiong, C. W. Chu, and M. K. Wu. Phys.Rev.B**57**, 3650 (1998).
- Wollman, D. A., D. J. Van Harlingen, W. C. Lee, D. M. Ginsberg, and A. J. Leggett. Phys. Rev. Lett.**71**, 2134 (1993).
- Wollman, D. A., D. J. Van Harlingen, J. Giapintzakis, and D. M. Ginsberg. Phys. Rev. Lett.**74**, 797 (1995).
- Wu, M. K., J. R. Ashburn, C. J. Torng, P. H. Hor, R. L. Meng, L. Gao, Z. J. Huang, Y. Q. Wang, and C. W. Chu. Phys. Rev. Lett. **58**, 908 (1991).
- Xing, D. Y., M. Liu, and C. D. Gong. Phys. Rev. B **44**, 12525 (1991).
- Zhang, F. C., and T. M. Rice. Phys. Rev. B **37**, 3759 (1988).



Curriculum Vitae

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Publication List

1. Krunavakarn, B., P. Udomsmuthirun, S. Yoksan, I. Grosu, and M. Crisan. 1998. The Gap-to- T_c Ratio of a Van Hove Superconductor. *Journal of Superconductivity* 11: 271.
2. Pakokthom, C., B. Krunavakarn, P. Udomsmuthirun, and S. Yoksan. 1998. Reduced-Gap Ratio of High- T_c Cuprates Within the d-Wave Two Dimensional Van Hove Scenario. *Journal of Superconductivity* 11: 429.
3. Krunavakarn, B., S. Kaskamalas, N. Jinuntaya, and S. Yoksan. Specific Heat Jump at T_c of High- T_c Superconductors: Effect of Van Hove Singularity. (in press.)
4. Kaskamalas, S., B. Krunavakarn, P. Rungruang, and S. Yoksan. Dependence of the Gap-Ratio on the Fermi Level Shift in a Van Hove Superconductor. Submitted for publication in the *Journal of Superconductivity*.
5. Kaskamalas, S., B. Krunavakarn, and S. Yoksan. Submitted for publication in the *International Journal of Modern Physics B*.