T. MAURICE RICE

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Home Address	Zurichstrasse 40 CH–8700 Küsnacht, Switzerland Tel. & Fax: +41 44 493 0204
Date of Birth	26 January 1939 at Dundalk, Ireland
Citizenship	Ireland & U.S.A.
Marital status	married with Helen D. Rice, Three children, Peter, Susan, Margrit
Education	BSc (1959) and MSc (1960) Univ. College, Dublin, Ireland PhD (1964) Cambridge University, Cambridge, England.
Employment History	
1963 – 64	Asst. Lecturer, Dept. of Mathematical Physics, Univ. of Birmingham, Birmingham, England
1964 – 66	Research Associate, Dept. of Physics, USCD, La Jolla, CA
1966 – 81	Bell Laboratories, Murray Hill, New Jersey
05/74 – 04/75	On leave as Professor at Simon Fraser University, Burnaby, British Columbia, Canada
06/75 – 12/78	Research Head, Theor. Physics, Research Dept., Bell Labs
12/78 – 08/81	Dept. Head, Surface Physics, Research Dept., Bell Labs
08/81 – 03/04	Professor, Theoretische Physik, Eidgenössische Technische Hochschule, Zürich, Switzerland
09/94 – 08/95	On leave as Consultant, AT&T Bell Labs, Murray Hill, NJ
Visiting Positions	Oct 70 – Feb 71: Visiting Lecturer at ETH-Zürich, Oct. 1976: Distinguished Visit. Prof., Univ. of Toronto, Canada, Feb – July 1980: Visiting Scientist at the Max-Planck-Institut für Festkörperforschung, Stuttgart, Germany, Sept. 1982: A.C. Fales Visit. Prof., Dalhousie Univ., Halifax, Canada, 1988 – 1991: PNM Fellow Los Alamos National Lab. 2005 – Distinguished Visit. Prof. Hong Kong University, Hong Kong

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Principal Research Interests	Theoretical solid state physics, especially metal-insulator transitions, electron-hole liquids in optically pumped semiconductors, organic conductors, charge and spin density wave states, heavy fermions, high T_c superconductors, unconventional superconductivity.

Editorial Service

- Editorial Board, Reviews of Modern Physics, 1980 – 1993
- Editorial Board, J. Physics C, 1983 – 1987
- Editorial Board, Physical Review B, 1986 – 1988
- Editorial Board, Superconductor Science and Technology, 1988 – 1991
- Board of Reviewing Editors, Science, 1993 – 1999
- Executive Editorial Board, Journal of Physics: Cond. Matter, 1994 – 1998
- Editorial Board, European Physical Journal B, 1999 – 2001
- Advisory Editor, Europhysics Letters, 1995 – 2004

Honors

- Fellow, American Physical Society
- Alexander von Humboldt Senior U.S. Scientist Award 1980
- Honorary Member, Royal Irish Academy 1988
- Dr. Science (honoris causa), National Univ. of Ireland, Dublin, June 1989
- Member, National Academy of Sciences, Washington DC, USA, 1993
- JPS Research Article Prize, 1996, Phys. Soc. of Japan
- 1998 Hewlett-Packard Europhysics Prize for Outstanding Achievement in Solid State Physics.
- 2000 John Bardeen Prize for Superconductivity Theory
- 2001 Cherwell-Simons Memorial Lecturer at Oxford University
- 2001 Highly Cited Researcher; Institute for Scientific Information
- 2002/03 International Councillor, American Physical Society
- 2002 Fellow of the Royal Society
- 2003 Fellow, Institute of Physics
- 2006 Honorary Professor, Nanjing Univ., Nanjing, China

02/2007/iu

LIST OF PUBLICATIONS

T.M. Rice

(July 2004)

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1. The Effect of Electron-Electron Interaction on the Properties of Metals; *T.M. Rice*, Annals of Physics **31**, 100 (1965); and Proc. of IX. International Conf. on Low Temperature Physics (Sept. 1964).

2. Superconductivity in One and Two Dimensions; *T.M. Rice*, Phys. Rev. **140** , A1889 (1965).

3. A Many-Particle Derivation of the Effective Mass Equation for the Wannier Exciton; *L.J. Sham*, and *T.M. Rice*, Phys. Rev. **144**, 708 (1966).

4. The Excitonic Insulator; *D. Jerome, T.M. Rice*, and *W. Kohn*, Phys. Rev. **158**, 462 (1967).

5. Superconductivity in One and Two Dimensions. II. Charged Systems; *T.M. Rice*, Journal of Mathematical Physics **8**, 8 (1967).

6. Pressure Dependence of Itinerant Antiferromagnetism in Chromium; *D.B. McWhan*, and *T.M. Rice*, Phys. Rev. Letters **19**, 846 (1967).

7. The Excitonic State at the Semiconductor-Semimetal Transition; *B.I. Halperin*, and *T.M. Rice*, Solid State Physics **21**, 115 (1968).

8. Antiferromagnetic Energy Gap in Chromium; *A.S. Barker, B.I. Halperin*, and *T.M. Rice*, Phys. Rev. Letters **20**, 384 (1968).

9. Possible Anomalies at a Semimetal-Semiconductor Transition; *B.I. Halperin*, and *T.M. Rice*, Rev. Mod. Phys. **40**, 755 (1968).

10. A Sum Rule for the Landau Fermi Liquid Parameters in Metals; *W.F. Brinkman, P.M. Platzman*, and *T.M. Rice*, Phys. Rev. **174**, 495 (1968).

11. The Landau Fermi Liquid Parameters in Na and K; *T.M. Rice*, Phys. Rev. **175**, 858 (1968).

12. Pressure Dependence of Antiferromagnetism in Cr and its Alloys; *T.M. Rice, B.I. Halperin*, and *D.B. McWhan*, Proc. LT11, **2**, 1308 (1968).

13. The Optical Gap in Antiferromagnetic Chromium and its Alloys; *A.S. Barker, B.I. Halperin*, and *T.M. Rice*, Proc. LT11, **2**, 1312 (1968).

14. Metal-Semiconductor Transition in Ytterbium and Strontium at High Pressure; *D.B. McWhan, T.M. Rice*, and *P.H. Schmidt*, Phys. Rev. **177**, 1063 (1969).

15. A Sum Rule for the Landau Fermi Liquid Parameters in Metals; *T.M. Rice, W.F. Brinkmann*, and *P.M. Platzman*, Proc. LT11, **2**, 1174 (1968).

16. Critical Pressure for the Metal-Semiconductor Transition in V_2O_3; *D.B. McWhan*, and *T.M. Rice*, Phys. Rev. Letters **22**, 887 (1969).

17. Antiferromagnetism in Chromium and its Alloys; *T.M. Rice, A.S. Barker, Jr., B.I. Halperin*, and *D.B. McWhan*, J. Appl. Phys. **40**, 1337 (1969).

18. $*^*$ Mott Transition in Cr-Doped V_2O_3; *D.B. McWhan, T.M. Rice*, and *J.P. Remeika*, Phys. Rev. Letters **23**, 1384 (1969).

19. Electronic Transitions Under Pressure with Emphasis on V_2O_3; *D.B. McWhan, T.M. Rice*, and *J.P. Remeika*, Proc. Colloque Intl. du CNRS, (1970).

20. Effect of High Pressure on Antiferromagnetic Ordering in Chromium Alloys; *A. Jayaraman, T.M. Rice*, and *E. Bucher*, J. Appl. Phys. **41**, 869 (1970).

21. Kohn Anomalies in Tungsten and Other Cr-Group Metals; *T.M. Rice*, and *B.I. Halperin*, Phys. Rev. B **1**, 509 (1970).

22. Ultrasonic Attenuation Due to Electron-Phonon Interaction in Potassium; *T.M. Rice*, and *L.J. Sham*, Phys. Rev. B **1**, 4546

23. Single Particle Excitations in Magnetic Insulators; *W.F. Brinkman*, and *T.M. Rice*, Phys. Rev. B **2**, 1324 (1970).

24. The Metal-Insulator Transition in Transition Metal Oxides; *T.M. Rice, D.B. McWhan*; IBM J. Research and Development **14**, 251 (1970).

25. Application of Gutzwiller Variational Method to the Metal-Insulator Transition; *W.F. Brinkman*, and *T.M. Rice*, Phys. Rev. B **2**, 4302 (1970).

26. Band Structure Effects in Itinerant Antiferromagnetism; *T.M. Rice*, Phys. Rev. B **2**, 3619 (1970).

27. Metal-Insulator Transitions in Transition Metal Oxides; *T.M. Rice, D.B. McWhan* and *W.F. Brinkman,* Proceedings of the Tenth International Conference on Physics of Semiconductors, 293 (1970).

28. Some Aspects of the Theory of the Mott Transition; *T.M. Rice*, and *W.F. Brinkman*, *Critical Phenomena in Alloys, Magnets and Superconductors*, ed. R.E. Mills, E. Ascher, R.I. Jaffee, 593 (1971).

29. Pressure Effects in Itinerant Antiferromagnetism of Cr and its Alloys; *T.M. Rice, A. Jayaraman*, and *D.B. McWhan*, J. de Physique C1, 39 (1971).

30. Properties of Mott-Hubbard Band in the Atomic Limit; *W.F. Brinkman*, and *T.M. Rice*, J. de Physique C1, 1103 (1971).

31. The Hall Effect in the Presence of Strong Spin Disorder Scattering; *W.F. Brinkman*, and *T.M. Rice*, Phys. Rev. B **4**, 1566 (1971).

32. On the Order of Itinerant Antiferromagnetic Phase Transitions and Superconducting Phase Transitions in an Exchange Field; *A. Malaspinas*, and *T.M. Rice*, Physik der Kondensierten Materie **13**, 193 (1971).

33. The Electronic Specific Heat of Metallic Ti-Doped V_2O_3; *D.B. McWhan, J.P. Remeika, T.M. Rice, W.F. Brinkman, J.P. Maita*, and *A. Menth*, Phys. Rev. Lett. **27**, 941 (1971).

34. On the Effects of Impurities on the Metal-Insulator Transition; *T.M. Rice*, and *W.F. Brinkman*, Phys. Rev. B **5**, 4350 (1972).

35. On the Metallic State of the Electron-Hole Liquid Particularly in Germanium; *W.F. Brinkman, T.M. Rice, P.W. Anderson*, and *S.T. Chui*, Phys. Rev. Lett. **28**, 961 (1972).

36. Metal-Insulator Transition in Pure and Doped V_2O_3; *D.B. McWhan, A. Menth, J.P. Remeika, W.F. Brinkman*, and *T.M. Rice*, Phys. Rev. B **7**, 1920 (1973).

37. Disordered Bond Model for $V_{1-x}Cr_xO_2$; *T.M. Rice*, Proc. 18th Conf. on Magnetism and Magnetic Materials, AIP Conf. Proc. **10**, 1406 (1973).

38. Electron-Hole Liquids in Semiconductors; *W.F. Brinkman*, and *T.M. Rice*, Phys. Rev. B **7**, 1508 (1973).

39. The Excitonic Molecule; *W.F. Brinkman, T.M. Rice*, and *B.J. Bell*, Phys. Rev. B **8**, 1570 (1973).

40. Evaporation of Metallic Exciton Droplets in Optically Pumped Germanium; *J.C. Hensel, T.G. Philips*, and *T.M. Rice*, Phys. Rev. Lett. **30**, 227 (1973).

41. Temperature-Dependent Luminescene from the Electron-Hole Liquid in Ge; *G.A. Thomas, T.G. Phillips, T.M. Rice,* and *J.C. Hensel,* Phys. Rev. Lett. **31**, 386 (1973).

42. Electron-Hole Drops or Excitonic Molecules; *T.M. Rice*, and *W.F. Brinkman*, Comments Sol. State Phys. **5**, 151 (1973).

43. Fluctuation Effects at a Peierls Transition; *P.A. Lee, T.M. Rice*, and *P.W. Anderson*, Phys. Rev. Lett. **31**, 462 (1973).

44. The Charge on an Electron-Hole Drop; *T.M. Rice*, Phys. Rev. B **9**, 1540 (1974).

45. Conductivity from Charge or Spin Density Waves; *P.A. Lee, T.M. Rice*, and *P.W. Anderson*, Sol. State Comm. **14**, 703 (1974).

46. Microscopic Magnetic Properties of Metallic and Insulating V_4O_7 and V_7O_{13}; *A.C. Gossard, J.P. Remeika, T.M. Rice, H. Yasuoka, K. Kosuge*, and *S. Kachi*, Phys. Rev. B **9**, 1230 (1974).

47. Quasiparticle Properties in an Electron-Hole Liquid; *T.M. Rice*, Il Nuovo Cimento **23**, 226 (1974).

48. Magnetic Ordering of a d^1 Compound: VF_4; *A.C. Gossard, F.J. DiSalvo, W.E. Falconer, T.M. Rice, J.M. Voorhoeve*, and *H. Yasuoka*, Sol. State Comm. **14**, 1207 (1974).

49. Theory of Electron-Hole Drops in Germanium and Silicon; *T.M. Rice*, in *"Excitons at High Density and Polaritons",* ed. H. Haken (Springer Tracts in Modern Physics, 1974), p. 91.

50. Coulomb Effects on the Peierls Transition; *S.T. Chui, T.M. Rice*, and *C.M. Varma*, Sol. State Comm. **15**, 155 (1974).

51. Dimerization of a Linear Heisenberg Chain in the Insulating Phases of $V_{1-x}Cr_xO_2$; *J.P. Pouget, H. Launois, T.M. Rice, P. Dernier, A.C. Gossard, G. Villeneuve*, and *P. Hagenmuller*, Phys. Rev. B **10**, 1801 (1974).

52. Fluctuation Resistivity in One-Dimensional Metals; *H. Fukuyama, T.M. Rice*, and *C.M. Varma*, Phys. Rev. Lett. **33**, 305 (1974).

53. Liquid-Gas Phase Diagram of an Electron-Hole Fluid; *G.A. Thomas, T.M. Rice*, and *J.C. Hensel*, Phys. Rev. Lett. **33**, 219 (1974).

54. Some Properties of the One-Dimensional Fermi Model; *H. Fukuyama, T.M. Rice, C.M. Varma*, and *B.I. Halperin* , Phys. Rev. B **10**, 3775 (1974).

55. Luminescence from Interacting Electrons and Holes in Germanium; *G.A. Thomas, T.M. Rice*, and *J.C. Hensel*, Proc. 12th Int. Conf. Phys. Semicond. (Stuttgart, West Germany, 1974), p. 105.

56. Theory of the Electron-Hole Fluid; *T.M. Rice*, Proc. 12th Int. Conf. Phys. Semicond. (Stuttgart, West Germany, 1974), p. 23.

57. The Three-Dimensional Band Structure of Polysulphur-Nitride; *W.I. Friesen, A.J. Berlinsky, B. Bergersen, L. Weiler*, and *T.M. Rice*, J. Phys. C **8**, 3549 (1975).

58. New Mechanism for a Charge-Density-Wave Instability; *T.M. Rice*, and *G.K. Scott*, Phys. Rev. Lett. **35**, 120 (1975).

59. Collective Modes in Charge Density Wave Structures; *T.M. Rice*, Sol. State Comm. **17**, 1055 (1975).

60. Metal-Insulator Transition in $(V_{1-x}Cr_x)_2O_3$, *D.B. McWhan, A. Jayaraman, J.P. Remeika*, and *T.M. Rice*, Phys. Rev. Lett. **34**, 547 (1975).

61. Far-Infrared Reflectivity of the Mixed-Valence Compounds TmTe and TmSe; *R.W. Ward, B.P. Clayman*, and *T.M. Rice*, Sol. State Comm. **17**, 1297 (1975).

62. Electron Localization Induced by Uniaxial Stress in Pure VO_2; *J.P. Pouget, H. Launois, J.P. D'Haenens, P. Merenda*, and *T.M. Rice*, Phys. Rev. Lett. **35**, 873 (1975).

63. Semiconductor Metal Transitions; *T.M. Rice*, Proc. Oji Seminar on Highly Excited States in Solids (Japan), Lecture Notes in Physics (Springer-Verlag) **57**, 144 (1976).

64. Electron-Hole Liquids in Polar Semiconductors; *G. Beni*, and *T.M. Rice*, Phys. Rev. Lett. **37**, 974 (1976).

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66. Fluctuations, Coloumb Effects and Long-Range Order in Incommensurate Charge-Density-Wave Structure; *D.J. Bergman, T.M. Rice*, and *P.A. Lee*, Phys. Rev. B **15**, 1706 (1977).

67. The Role of Interchain Coupling in Linear Conductors; *P.A. Lee, T.M. Rice*, and *R.A. Klemm*, Proc. Conf. on Org. Cond. and Semicond. (Siofok, Hungary) and Phys. Rev. B **15**, 2984 (1977).

68. The Two-Chain Problem: A Model of TTF-TCNQ; *R.A. Klemm, P.A. Lee*, and *T.M. Rice*, Proc. Conf. on Org. Cond. and Semicond. (Siofok, Hungary).

69. Possibility of a Spin-Density-Wave or a Valley-Density-Wave in the Ground State of a Two-Dimensional Electron Fluid; *D.J. Bergman*, and *T.M. Rice*, Sol. State Comm. **23**, 59 (1977).

70. Electron-Hole Liquids in Semiconductors I: Theory; *T.M. Rice*, Solid State Physics, Vol. **32**, p. 1 (Acad. Press N.Y.), 1977.

71. Charge Density Waves; *T.M. Rice*, Il Nuovo Cimento **38**B, 537 (1977).

72. Trions, Molecules and Excitons Above the Mott Density in Ge; *G.A. Thomas*, and *T.M. Rice*, Solid State Comm. **23**, 359 (1977).

73. Electron-Hole Liquid in GaP; *G. Beni*, and *T.M. Rice*, Solid State Comm. **23**, 871 (1977).

74. Infrared Absorption and Scattering by Electron-Hole Droplets in Ge; *J.H. Rose, H.B. Shore*, and *T.M. Rice*, Phys. Rev. B **17**, 752 (1978).

75. The Commensurate-Incommensurate Phase Transition; *T.M. Rice, S.A. Jackson*, and *P.A. Lee*, Proc. Conf. on High Pressure and Low Temperature Physics, Cleveland (Plenum, NY, 1978), p. 575.

76. The Triple Point of the Lock-In and Onset Transitions of Charge Density Waves; *S.A. Jackson, P.A. Lee*, and *T.M. Rice*, Phys. Rev. B **17**, 3611 (1978).

77. Theory of Electron-Hole Liquid in Semiconductors; *G. Beni*, and *T.M. Rice*, Phys. Rev. B **18**, 768 (1978).

78. Statics and Dynamics of Incommensurate Lattices; *G. Theodorou*, and *T.M. Rice*, Phys. Rev. B **18**, 2840 (1978).

79. Effect of Electron-Phonon Scattering on Charge Density Wave Phase Transitions; *D.J. Huntley, F.J. DiSalvo*, and *T.M. Rice*, J. Phys. C **11**, L767 (1978).

80. Theory of Electron-Hole Liquid in Semiconductors; *G. Beni*, and *T.M. Rice*, Proc. 14th Int. Conf. on Physics of Semiconductors (Edinburgh) p. 355 (1978).

81. Electron-Hole Liquids; *T.M. Rice*, Proc. Scottish Universities Summer School, St. Andrews, Scotland (1978).

82. Lattice Distortions and Phonons in Organic Conductors with Incommensurate Lattices: *G. Theodorou*, and *T.M. Rice*, Proc. Int. Conf. on Quasi-One-Dimensional Conductors, Dubrovnik, Yugoslavia (1978).

83. Charge Density Waves in Transition Metal Compounds; *F.J. DiSalvo*, and *T.M. Rice*, Physics Today (April 1979).

84. The Electron-Hole Liquid; *T.M. Rice*, Contemporary Physics **20**, 241 (1979).

85. Electron-Hole Liquid in SiC; *G. Beni, T.M. Rice*, and *L.A. Hemstreet*, Phys. Rev. B **19**, 2204 (1979).

86. Electric Field Depinning of Charge Density Waves; *P.A. Lee*, and *T.M. Rice*, Phys. Rev. B **19**, 3970 (1979).

87. Theory of Optical Absorption in Expanded Fluid Mercury; *R.N. Bhatt*, and *T.M. Rice*, Phys. Rev. B **20**, 466 (1979).

88. Observation of A Donor Exciton Band in Silicon; *M. Capizzi, G.A. Thomas, F. DeRosa, R.N. Bhatt*, and *T.M. Rice*, Solid State Commun. **31**, 611 (1979).

89. Stability of the Six-Valley State of the Si(111) n-Type Inversion Layer; *G. Beni*, and *T.M. Rice*, Phys. Rev. B **20**, 5390 (1979).

90. Dynamics of Charge Density Waves in the Presence of Free Carriers; *T.M. Rice, P.A. Lee*, and *M.C. Cross*, Phys. Rev. B **20**, 1345 (1979).

91. Clustering in the Approach to the Metal-Insulator Transition; *R.N. Bhatt*, and *T.M. Rice*, Philosophical Mag. B **42**, 859 (1980).

92. Observation of the Approach to a Polarization Catastrophe; *M. Capizzi, G.A. Thomas, F. DeRosa, R.N. Bhatt*, and *T.M. Rice*, Phys. Rev. Lett. **44**, 1019 (1980).

93. Charge Density Waves in Transition Metal Compounds; *T.M. Rice*, Festkörperprobleme Vol. XX, p. 393 (1980).

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95. Single Particle Energy Levels in Doped Semiconductors at Densities Below the Metal-Nonmetal Transition; *R.N. Bhatt*, and *T.M. Rice*, Phys. Rev. B. **23**, 1920 (1981).

96. One Dimensional Metals; Theory versus Experiment; *T.M. Rice*, Proceedings of Int. Conf. on Physics in One Dimension, Fribourg, Switzerland, Ed. J. Bernasconi and T. Schneider, p. 229 (1980).

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98. Low Temperature Magnetic Susceptibility of Si:P in the Non-Metallic Regime; *K. Andres, R.N. Bhatt, P. Goalwin, T.M. Rice*, and *R.E. Walstedt*, Phys. Rev. B **24**, 244 (1981).

99. Impurity Pinning of Discommensurations in Charge Density Waves; *T.M. Rice, S. Whitehouse*, and *P. Littlewood*, Phys. Rev. B **24**, 2751 (1981).

100. Real Space and $\vec{k}-$ space Electron Pairing in $BaPb_{1-x}Bi_xO_3$, *T.M. Rice*, and *L. Sneddon*, Phys. Rev. Lett. **47**, 689 (1981).

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105. Combined effect of disorder and interaction on the conductance of a one- dimensional fermion system; *W. Apel*, and *T.M. Rice*, Phys. Rev. B **26**, 7063 (1982).

106. Electron Glass; *J.H. Davies, P.A. Lee*, and *T.M. Rice*, Phys. Rev. Lett. **49**, 758 (1982).

107. Theory of the Crossover in the Low Frequency Dynamics of an Incommensurate System $Hg_{3-\delta}AsF_6$; *W. Finger* and *T.M. Rice,* Phys. Rev. Lett. **49**, 468 (1982).

108. The Commensurate-Incommensurate Transition in the Charge Density Wave State of 2H-$TaSe_2$; *T.M. Rice*, Physica Scripta Vol. TI, 78, 1982.

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120. Elastic and Other Properties at the Commensurate-Incommensurate Transition in 2H-$TaSe_2$; *T.M. Rice*, and *P. Prelovśek*, 'Charge Density Waves in Solids' Proceedings Budapest 1984; Lecture Notes in Physics **217**, 106 (1984).

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125. A New Structure for Ferromagnetic Superconductors; *P. Stampfli*, and *T.M. Rice*, Proceedings 17th Internat. Conference on Low Temperature Phys., LT-17, ed. U. Eckern et al. North-Holland, p. 79 (1984).

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128. The Electron-Hole Liquid as a true Ground State; *R. Monnier, J. Rhyner, T.M. Rice* and *D.D. Koelling,* Phys. Rev. B **31**, 5554 (1985).

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