

## Y.J. Uemura, Scientific Publications, 1978 - 2006

### I. Papers in regular scientific journals

1. A New Way of Determining Element Concentrations in P.I.X.E. Trace Element Analysis  
*Y.J. Uemura, Y. Kuno, H. Koyama, T. Yamazaki, P. Kienle*  
Nucl. Instr. & Methods 153, 573-579 (1978).
2. Longitudinal Spin Relaxation of  $\mu^+$  in Paramagnetic MnO  
*R.S. Hayano, Y.J. Uemura, J. Imazato, N. Nishida, K. Nagamine, T. Yamazaki, H. Yasuoka*  
Phys. Rev. Lett. 41, 421-424 (1978).
3. Observation of the  $T/(T - T_c)$  Divergence of the  $\mu^+$  Spin Relaxation Rate in MnSi near  $T_c$ .  
*R.S. Hayano, Y.J. Uemura, J. Imazato, N. Nishida, T. Yamazaki, H. Yasuoka, Y. Ishikawa*  
Phys. Rev. Lett. 41, 1743-1746 (1978).
4. Non-secular Part of Nuclear Dipolar Broadening Detected by Zero-Field Spin Relaxation of Positive Muon  
*Y.J. Uemura, R.S. Hayano, J. Imazato, N. Nishida, T. Yamazaki*  
Solid State Commun. 31, 731-734 (1979).
5. Zero- and Low-Field Spin Relaxation Studied by Positive Muon  
*R.S. Hayano, Y.J. Uemura, J. Imazato, N. Nishida, T. Yamazaki, R. Kubo*  
Phys. Rev. B20, 850-859 (1979).
6. Zero-Field Spin Relaxation of  $\mu^+$  as a Probe of the Spin Dynamics of AuFe and CuMn Spin Glasses  
*Y.J. Uemura, T. Yamazaki, R.S. Hayano, R. Nakai, C.Y. Huang*  
Phys. Rev. Lett. 45, 583-587 (1980).
7. Positive Muon Spin Rotation and Relaxation in the Helically Ordered State of MnSi  
*M. Takigawa, H. Yasuoka, Y.J. Uemura, R.S. Hayano, T. Yamazaki, Y. Ishikawa*  
J. Phys. Soc. Japan 49, 1760-1767 (1980).
8. Spin Fluctuations of Itinerant Electrons in MnSi Studied by Muon Spin Rotation and Relaxation  
*R.S. Hayano, Y.J. Uemura, J. Imazato, N. Nishida, K. Nagamine, T. Yamazaki, Y. Ishikawa, H. Yasuoka*  
J. Phys. Soc. Japan 49, 1773-1783 (1980).
9. Positive Muon Knight Shift in Metallic Pd  
*J. Imazato, Y.J. Uemura, N. Nishida, R.S. Hayano, K. Nagamine, T. Yamazaki*  
J. Phys. Soc. Japan 48, 1153-1155 (1980).
10. Zero-Field Muon Spin Relaxation Reflecting Dynamics of Spin Glass  
*Y.J. Uemura*  
Solid State Commun. 36, 369-372 (1980).
11. Muon Spin Relaxation in a Spin Glass CuMn Observed in Finite Longitudinal Magnetic Fields  
*Y.J. Uemura, K. Nishiyama, T. Yamazaki, R. Nakai*  
Solid State Commun. 39, 461-465 (1981).
12. Muon Spin Resonance by Strong Pulsed R.F. Field with Pulsed Muons  
*Y. Kitaoka, M. Takigawa, H. Yasuoka, M. Itoh, S. Takagi, Y. Kuno, K. Nishiyama, R.S. Hayano, Y.J. Uemura, J. Imazato, H. Nakayama, K. Nagamine, T. Yamazaki*

- Hyperfine Intract. 12, 51-57 (1982).
13. New Explanation of the Spin-Wave-Like Excitations in Ni above  $T_c$   
*Y.J. Uemura, G. Shirane, O. Steinsvoll, J.P. Wicksted*  
 Phys. Rev. Lett. 51, 2322-2325 (1983).
  14. Spin Dynamics near the Magnetic Percolation Threshold  
*G. Aeppli, H. Guggenheim, Y.J. Uemura*  
 Phys. Rev. Lett. 52, 942-945 (1984).
  15. Zero-Field Muon Spin Relaxation in *CuMn* Spin Glasses Compared with Neutron and Susceptibility Experiments  
*Y.J. Uemura, D.R. Harshman, M. Senba, E.J. Ansaldo, A.P. Murani*  
 Phys. Rev. B30, 1606-1608 (1984).
  16. Muon Spin Relaxation in *AuFe* and *CuMn* Spin Glasses  
*Y.J. Uemura, T. Yamazaki, D.R. Harshman, M. Senba, E.J. Ansaldo*  
 Phys. Rev. B31, 546-563 (1985).
  17. Paramagnetic Scattering from a Cubic Ferromagnet *Pd<sub>2</sub>MnSn*  
*G. Shirane, Y.J. Uemura, J.P. Wicksted, Y. Endoh, Y. Ishikawa*  
 Phys. Rev. B31, 1227-1232 (1985).
  18. Spin Correlations in a Concentrated Metallic Spin Glass  
*G. Aeppli, J.J. Hauser, G. Shirane, Y.J. Uemura*  
 Phys. Rev. Lett. 54, 843-846 (1985).
  19. Paramagnetic Spin Fluctuations in the Weak Itinerant Ferromagnet *MnSi*  
*Y. Ishikawa, Y. Noda, Y.J. Uemura, C.F. Majkrzak, G. Shirane*  
 Phys. Rev. B31, 5884-5893 (1985).
  20. Polarized Neutron Study of the Paramagnetic Scattering from *CeCu<sub>2</sub>Si<sub>2</sub>*  
*C. Stassis, B. Batlogg, J.P. Remeika, J.D. Axe, G. Shirane, Y.J. Uemura*  
 Phys. Rev. B33, 1680-1683 (1986).
  21. Polarized Neutron Scattering from *CeCu<sub>2</sub>Si<sub>2</sub>* in Applied Magnetic Fields  
*Y.J. Uemura, C.F. Majkrzak, G. Shirane, C. Stassis, G. Aeppli, B. Batlogg, J.P. Remeika*  
 Phys. Rev. B33, 6508-6511 (1986).
  22. Critical Behavior of the Three Dimensional Site-Random Ising Magnet: *Mn<sub>x</sub>Zn<sub>1-x</sub>F<sub>2</sub>*.  
*P.W. Mitchell, R.A. Cowley, H. Yoshizawa, P. Böni, Y.J. Uemura, R.J. Birgeneau*  
 Phys. Rev. B34, 4719-4726 (1986).
  23. Cross-over from Spin Waves to Quasi-Localized Excitations in the Diluted Antiferromagnet (*Mn<sub>0.5</sub>Zn<sub>0.5</sub>*)*F<sub>2</sub>*  
*Y.J. Uemura, R.J. Birgeneau*  
 Phys. Rev. Lett. 57, 1947-1950 (1986).
  24. Muon Level-crossing Resonance in Antiferromagnetic *MnF<sub>2</sub>*  
*R.F. Kiefl, G.M. Luke, S.R. Kreitzman, M. Celio, R. Keitel, J.H. Brewer, D.R. Noakes, Y.J. Uemura, A.M. Portis, V. Jaccarino*  
 Phys. Rev. B35, 2079-2082 (1987).
  25. Magnetic-field Penetration Depth of *La<sub>1.85</sub>Sr<sub>0.15</sub>CuO<sub>4</sub>* Measured by Muon Spin Relaxation  
*W.J. Kossler, J.R. Kempton, X.H. Yu, H.E. Schöne, Y.J. Uemura, A.R. Moodenbaugh, M. Suenaga, C.E. Stronach*  
 Phys. Rev. B35, 7133-7135 (1987).

26. Phase Transitions in Quasi-two-dimensional XY Random Magnetic system  
*K. Katsumata, J. Tuchendler, Y.J. Uemura, H. Yoshizawa*  
*Phys. Rev. B37, 356-369 (1988).*
27. Magnons and Fractons in the Diluted Antiferromagnet  $Mn_xZn_{1-x}F_2$   
*Y.J. Uemura, R.J. Birgeneau*  
*Phys. Rev. B36, 7024-7035 (1987).*
28. Antiferromagnetism of  $La_2CuO_{4-y}$  Studied by Muon Spin Rotation  
*Y.J. Uemura, W.J. Kossler, X.H. Yu, J.R. Kempton, H.S. Chen, D. Opie, C.E. Stronach, D.C. Johnston, M.S. Alvarez, D.P. Goshorn*  
*Phys. Rev. Lett. 59, 1045-1048 (1987).*
29. Inelastic Neutron Scattering from Sendust  
*L. Dobrzynski, A. Wisiniewski, Y.J. Uemura, S.M. Shapiro, J.P. Wicksted*  
*Phys. Rev. B37, 7175-7181 (1988).*
30. Systematic Variation of Magnetic-field Penetration Depth in High- $T_c$  Superconductors Studied by Muon Spin Relaxation  
*Y.J. Uemura, V.J. Emery, A.R. Moodenbaugh, M. Suenaga, D.C. Johnston, A.J. Jacobson, J.T. Lewandowski, J.H. Brewer, R.F. Kiefl, S.R. Kreitzman, G.M. Luke, T.M. Riseman, C.E. Stronach, W.J. Kossler, J.R. Kempton, X.H. Yu, D. Opie, H.E. Schöne*  
*Phys. Rev. B38, 909-912 (1988).*
31. Antiferromagnetism and Superconductivity in Oxygen-Deficient  $YBa_2Cu_3O_x$   
*J.H. Brewer, E.J. Ansaldo, J.F. Carolan, A.C.D. Chaklader, W.N. Hardy, D.R. Harshman, M.E. Hayden, M. Ishikawa, N. Kaplan, R. Keitel, J.R. Kempton, R.F. Kiefl, W.J. Kossler, S.R. Kreitzman, A. Kupla, Y. Kuno, G.M. Luke, H. Miyatake, K. Nagamine, Y. Nakazawa, N. Nishida, K. Nishiyama, S. Ohkuma, T.M. Riseman, G. Roehmer, P.W. Schleger, D. Shimada, C.E. Stronach, T. Takabatake, Y.J. Uemura, Y. Watanabe, D.Ll. Williams, T. Yamazaki, B.X. Yang*  
*Phys. Rev. Lett. 60, 1073-1075 (1988).*
32. Coexisting Static Magnetic Order and Superconductivity in  $CeCu_{2.1}Si_2$  Found by Muon Spin Relaxation  
*Y.J. Uemura, W.J. Kossler, X.H. Yu, H.E. Schöne, J.R. Kempton, C.E. Stronach, S. Barth, F.N. Gygax, B. Hitti, A. Schenck, C. Baines, W.F. Lankford, Y. Ooniki, T. Komatsubara*  
*Phys. Rev. B39 4726-4729 (1989).*
33. Absence of Magnetic Order in  $(Ba,K)BiO_3$   
*Y.J. Uemura, B.J. Sternlieb, D.E. Cox, J.H. Brewer, R. Kadono, J.R. Kempton, R.F. Kiefl, S.R. Kreitzman, G.M. Luke, P. Mulhern, T.M. Riseman, D.Ll. Williams, W.J. Kossler, X.H. Yu, C.E. Stronach, M.A. Subramanian, J. Goparakrishnan, A.W. Sleight*  
*Nature 335, 151-152 (1988).*
34. Static Magnetic Order in  $Bi_2Sr_2YCu_2O_x$  and Spin Freezing in  $Bi_2SrYCaCu_2O_x$   
*B.X. Yang, R.F. Kiefl, J.H. Brewer, J.F. Carolan, W.N. Hardy, R. Kadono, J.R. Kempton, S.R. Kreitzman, G.M. Luke, T.M. Riseman, D.Ll. Williams, Y.J. Uemura, B.J. Sternlieb, M.A. Subramanian, A.R. Strzelecki, J. Goparakrishnan, A.W. Sleight*  
*Phys. Rev. B39, 847-850 (1989).*
35. Studies of Static Magnetic Order in Electron Superconductors and Their Parent Compounds

- G.M. Luke, B.J. Sternlieb, Y.J. Uemura, J.H. Brewer, R. Kadono, R.F. Kiefl, S.R. Kreitzman, T.M. Riseman, J. Goparakrishnan, A.W. Sleight, M.A. Subramanian, S. Uchida, H. Takagi, Y. Tokura*  
Nature 338, 49-51 (1989).
36. The Magnetic and Superconducting Phase Diagram of  $\text{Bi}_2\text{Sr}_{3-x}\text{Y}_x\text{Cu}_2\text{O}_{8+y}$  as Determined by Muon Spin Rotation  
*B.J. Sternlieb, G.M. Luke, Y.J. Uemura, J.H. Brewer, R. Kadono, R.F. Kiefl, S.R. Kreitzman, T.M. Riseman, D.Ll. Williams, J. Goparakrishnan, A.W. Sleight, A.R. Strzelecki, M.A. Subramanian*  
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37. Universal Correlations between  $T_c$  and  $n_s/m^*$  (Carrier Density over Effective Mass) in High- $T_c$  Cuprate Superconductors  
*Y.J. Uemura, G.M. Luke, B.J. Sternlieb, J.H. Brewer, J.F. Carolan, W.N. Hardy, R. Kadono, J.R. Kempton, R.F. Kiefl, S.R. Kreitzman, P. Mulhern, T.M. Riseman, D.Ll. Williams, B.X. Yang, S. Uchida, H. Takagi, J. Goparakrishnan, A.W. Sleight, M.A. Subramanian, C.L. Chien, M.Z. Cieplak, Gang Xiao, V.Y. Lee, B.W. Statt, C.E. Stronach, W.J. Kossler, X.H. Yu*  
Phys. Rev. Lett. 62, 2317-2320 (1989).
38. The Effect of Random Fields on the Critical and Bicritical Behavior of  $\text{Mn}_x\text{Zn}_{1-x}\text{F}_2$   
*R.A. Cowley, G. Shirane, H. Yoshizawa, Y.J. Uemura, R.J. Birgeneau*  
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39. Muon Spin Rotation Study of Magnetism in  $\text{La}_{1.85}\text{Sr}_{0.15}\text{CuO}_4$  and  $\text{YBa}_2\text{Cu}_3\text{O}_x$  below 90 mK  
*R.F. Kiefl, J.H. Brewer, J.F. Carolan, W.N. Hardy, R. Kadono, J.R. Kempton, S.R. Kreitzman, R. Krahn, P.W. Schleger, B.X. Yang, Hu Zhou, G.M. Luke, B.J. Sternlieb, Y.J. Uemura, W.J. Kossler, X.H. Yu, E.J. Ansaldo, H. Takagi, S. Uchida, C.L. Seaman,*  
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40. Muon Spin Relaxation and Neutron Scattering Studies of Magnetism in Single-crystal  $\text{La}_{1.94}\text{Sr}_{0.06}\text{CuO}_4$   
*B.J. Sternlieb, G.M. Luke, Y.J. Uemura, T.M. Riseman, J.H. Brewer, P.M. Gehring, K. Yamada, Y. Hidaka, T. Murakami, T. Thurston, R.J. Birgeneau*  
Phys. Rev. B41, 8866-8871 (1990).
41. Search for Anomalous Internal Magnetic Fields in High- $T_c$  Superconductors as Evidence for Broken Time Reversal Symmetry  
*R.F. Kiefl, J.H. Brewer, I. Affleck, J.F. Carolan, P. Dosanjh, W.N. Hardy, T. Hsu, R. Kadono, J.R. Kempton, S.R. Kreitzman, Q. Li, A.H. O'Reilly, T.M. Riseman, P.W. Schleger, P. Stamp, Hu Zhou, L.P. Le, G.M. Luke, B.J. Sternlieb, Y.J. Uemura, H.R. Hart, K.W. Ley*  
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42. Muon Spin Rotation Studies in Single-crystal  $\text{Sr}_2\text{CuO}_2\text{Cl}_2$   
*L.P. Le, G.M. Luke, B.J. Sternlieb, Y.J. Uemura, J.H. Brewer, T.M. Riseman, D.C. Johnston, L.L. Miller*  
Phys. Rev. B42, 2182-2187 (1990).
43. Magnetic Order and Electronic Phase Diagrams of Electron-doped Copper Oxide Materials  
*G.M. Luke, L.P. Le, B.J. Sternlieb, Y.J. Uemura, J.H. Brewer, R. Kadono, R.F. Kiefl, S.R. Kreitzman, T.M. Riseman, C.E. Stronach, M.R. Davis, S. Uchida, H. Takagi, Y. Tokura, Y. Hidaka, T. Murakami, J. Goparakrishnan, A.W. Sleight, M.A. Subramanian, E.A. Early, J.T. Markert, M.B. Maple, C.L. Seaman*

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44. Magnetic Penetration Depth of  $Y_{1-x}Pr_xBa_2Cu_3O_{6.97}$  Measured by Muon Spin Relaxation  
*C.L Seaman, J.J. Neumeier, M.B. Maple, L.P. Le, G.M. Luke, B.J. Sternlieb, Y.J. Uemura, J.H. Brewer, R. Kadono, R.F. Kiefl, S.R. Kreitzman, T.M. Riseman*  
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  45. Positive Muon Knight Shift and Spin Relaxation in Heavy-fermion Superconductors  $UPt_3$  and  $UBe_{13}$   
*G.M. Luke, L.P. Le, B.J. Sternlieb, W.D. Wu, J.H. Brewer, R. Kadono, R.F. Kiefl, S.R. Kreitzman, T.M. Riseman, Y. Dalichaouch, B.W. Lee, M.B. Maple, C.L Seaman, P.E. Armstrong, R.W. Ellis, Z. Fisk, J.L. Smith*  
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  46. Zero-field Muon Spin Rotation Studies in  $(TMTSF)_2PF_6$   
*L.P. Le, G.M. Luke, B.J. Sternlieb, W.D. Wu, Y.J. Uemura, J.H. Brewer, T.M. Riseman, R.V. Upasani, L.Y. Chiang, P.M. Chaikin*  
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  47. Basic Similarities among Cuprate, Bismuthate, Organic, Chevrel Phase, and Heavy-Fermion Superconductors Shown by Penetration Depth Measurements  
*Y.J. Uemura, L.P. Le, G.M. Luke, B.J. Sternlieb, W.D. Wu, J.H. Brewer, T.M. Riseman, C.L Seaman, M.B. Maple, M. Ishikawa, D.G. Hinks, J.D. Jorgensen, G. Saito, H. Yamochi*  
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  48.  $\mu$ SR Measurement of Magnetic Penetration Depth in Organic Superconductors  $(BEDT-TTF)_2-X$ :  $X=Cu(NCS)_2$  and  $Cu[N(CN)_2]Br$   
*L.P. Le, G.M. Luke, B.J. Sternlieb, W.D. Wu, Y.J. Uemura, J.H. Brewer, T.M. Riseman, C.E. Stronach, G. Saito, H. Yamochi, H.H. Wang, A.M. Kini, K.D. Carlson, J.M. Williams*  
 Phys. Rev. Lett. *68*, 1923-1926 (1992).
  49. Magnetic Field Penetration Depth in  $K_3C_{60}$  Measured by Muon Spin Relaxation  
*Y.J. Uemura, A. Keren, G.M. Luke, L.P. Le, B.J. Sternlieb, W.D. Wu, J.H. Brewer, R.L. Whetten, S.M. Huang, Sophia Lin, R.B. Kaner, F. Diederich, S. Donovan, G. Grüner, K. Holczer*  
 Nature *352*, 605-607 (1991).
  50.  $\mu$ SR Studies of Flux Pinning in  $Bi_2Sr_2CaCu_2O_8$  and  $Pb_{0.7}Bi_{1.3}Sr_2CaCu_2O_8$   
*W.D. Wu, A. Keren, L.P. Le, B.J. Sternlieb, G.M. Luke, Y.J. Uemura, T.M. Riseman*  
 Phys. Rev. *B47*, 8172-8186 (1993).
  51. Searching for Spontaneous Magnetic Order in an Organic Ferromagnet:  $\mu$ SR Studies of  $\beta$ -Phase  $p$ -NPNN  
*L.P. Le, A. Keren, G.M. Luke, W.D. Wu, Y.J. Uemura, M. Ishikawa, M. Kinoshita*  
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  52. Muon Spin Rotation/Relaxation Studies in  $(TMTSF)_2-X$  Compounds  
*L.P. Le, A. Keren, G.M. Luke, B.J. Sternlieb, W.D. Wu, Y.J. Uemura, J.H. Brewer, T.M. Riseman, R.V. Upasani, L.Y. Chiang, W. Kang, P.M. Chaikin, T. Csiba, G. Grüner*  
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  53. Muon Spin Rotation Measurements in Infinite Layer and Infinite Chain Cuprate Antiferromagnets:  $Ca_{0.86}Sr_{0.14}CuO_2$  and  $Sr_2CuO_3$   
*A. Keren, L.P. Le, G.M. Luke, B.J. Sternlieb, W.D. Wu, Y.J. Uemura, S. Tajima, S. Uchida*

Physical Review *B*48, 12926-12935 (1993).

54. Magnetic-field Penetration Depth in  $\text{Tl}_2\text{Ba}_2\text{CuO}_{6+\delta}$  in the Overdoped Regime  
*Y.J. Uemura, A. Keren, L.P. Le, G.M. Luke, W.D. Wu, Y. Kubo, Y. Shimakawa, M. Subramanian, J.L Cobb, J.T. Markert*  
*Nature* 364, 605-607 (1993).
55. Muon Spin Relaxation in  $\text{UPt}_3$   
*G.M. Luke, A. Keren, L.P. Le, W.D. Wu, Y.J. Uemura, D.A. Bonn, L. Taillefer, J.D. Garrett*  
*Phys. Rev. Lett.* 71, 1466-1469 (1993).
56.  $\mu\text{SR}$  Study of Magnetic Order in  $\text{Y}_{1-x}\text{U}_x\text{Pd}_3$  and  $\text{UPd}_4$   
*W.D. Wu, A. Keren, L.P. Le, G.M. Luke, B.J. Sternlieb, Y.J. Uemura, C.L Seaman, Y. Dalichaouch, M.B. Maple*  
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57. Competition between Magnetic Order and Superconductivity in  $\text{CeCu}_{2.2}\text{Si}_2$   
*G.M. Luke, A. Keren, K. Kojima, L.P. Le, B.J. Sternlieb, W.D. Wu, Y.J. Uemura, Y. Onuki, T. Komatsubara*  
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58.  $\mu\text{SR}$  and Magnetic Susceptibility Measurements in Haldane Systems  $(\text{Y}_{2-x}\text{Ca}_x)\text{Ba}(\text{Ni}_{1-y}\text{Mg}_y)\text{O}_5$   
*K. Kojima, A. Keren, L.P. Le, G.M. Luke, W.D. Wu, Y.J. Uemura, K. Kiyono, S. Miyasaka, H. Takagi, S. Uchida*  
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59. Spin Fluctuations in Frustrated Kagomé Lattice System  $\text{SrCr}_8\text{Ga}_4\text{O}_{19}$  Studied by Muon Spin Relaxation  
*Y.J. Uemura, A. Keren, K. Kojima, G.M. Luke, W.D. Wu, Y. Ajiro, Y. Kuriyama, M. Mekata, K. Kikuchi, K. Kakurai*  
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60. Magnetic Behavior of the 2-leg and 3-leg Spin Ladder Cuprates  $\text{Sr}_{n-1}\text{Cu}_{n+1}\text{O}_{2n}$   
*K. Kojima, A. Keren, G.M. Luke, B. Nachumi, W.D. Wu, Y.J. Uemura, M. Azuma, M. Takano*  
*Phys. Rev. Lett.* 74, 2812-2815 (1995).
61. Static Magnetic Order in 1-dimensional Conductor  $\text{RbC}_{60}$   
*Y.J. Uemura, K. Kojima, G.M. Luke, W.D. Wu, G. Oszlanyi, O. Chauvet, L. Forro*  
*Phys. Rev.* B52, R6991-R6994 (1995).
62. Muon-spin-rotation Measurements in the Kagomé Lattice Systems: Cr-jarosite and Fe-jarosite  
*A. Keren, K. Kojima, L.P. Le, G.M. Luke, W.D. Wu, Y.J. Uemura, M. Takano, H. Dabkowska, M.J.P. Gingras*  
*Phys. Rev.* B53, 6451-6454 (1996).
63. Muon Spin Relaxation Investigation of the Spin Dynamics of Geometrically Frustrated Antiferromagnets  $\text{Y}_2\text{Mo}_2\text{O}_7$  and  $\text{Tb}_2\text{Mo}_2\text{O}_7$   
*S.R. Dunsiger, R.F. Kiefl, K.H. Chow, B.D. Gaulin, M.J.P. Gingras, A. Keren, K. Kojima, G.M. Luke, W.A. MacFarlane, N.P. Raju, J.E. Sonier, Y.J. Uemura, W.D. Wu*  
*Phys. Rev.* B54, 9019-9022 (1996).
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  66. Ferromagnetic Ordering and Unusual Magnetic Ion Dynamics in  $\text{La}_{0.67}\text{Ca}_{0.33}\text{MnO}_3$   
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## II. Papers presented at international conferences

- • • *Presented at the the First International Conference on Muon Spin Rotation, Lake Constance, Switzerland, September, 1978*
- C1. Spin Relaxation of Positive Muon in Paramagnetic MnO  
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- C28. Muon Spin Relaxation in  $CeCu_2Si_2$  and Muon Knight Shift in Various Heavy-Fermion Systems

Y.J. Uemura, W.J. Kossler, B. Hitti, J.R. Kempton, H.E. Schöne, X.H. Yu, C.E. Stronach, W.F. Lankford, D.R. Noakes, R. Keitel, M. Senba, J.H. Brewer, E.J. Ansaldo, Y. Ooniki, T. Komatsubara, G. Aeppli, E. Bucher, J.E. Crow  
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C29.  $\mu$ SR studies on Pure  $\text{MnF}_2$  and Site-diluted  $(\text{Mn}_{0.5}\text{Zn}_{0.5})\text{F}_2$   
Y.J. Uemura, R. Keitel, M. Senba, R.F. Kiefl, S.R. Kreitzman, D.R. Noakes, J.H. Brewer, D.R. Harshman, E.J. Ansaldo, K.M. Crowe, A.M. Portis, V. Jaccarino  
Hyperfine Interact. 31, 313-318 (1986).

C30.  $\mu^+$ SR in Amorphous Spin Glass  $\text{Pd}_{75}\text{Fe}_5\text{P}_{20}$   
J.H. Brewer, D.P. Spencer, C.Y. Huang, Y.J. Uemura, H.S. Chen  
Hyperfine Interact. 31, 381-387 (1986).

C31. Observation of Muon Level-crossing Resonance in Antiferromagnetic  $\text{MnF}_2$   
G.M. Luke, R.F. Kiefl, S.R. Kreitzman, J.H. Brewer, D.R. Noakes, M. Celio, R. Keitel, Y.J. Uemura, D.R. Harshman, V. Jaccarino  
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C32. Magnetic Field Penetration Depth of High- $T_c$  Superconductors Studied by Muon Spin Relaxation (*invited*)  
Y.J. Uemura  
Bull. Am. Phys. Soc. 33, 337-338 (1988).

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C33. Comparison between Muon Spin Rotation and Neutron Scattering Studies on the 3-dimensional Magnetic Order of  $\text{La}_2\text{CuO}_{4-y}$   
Y.J. Uemura, W.J. Kossler, J.R. Kempton, X.H. Yu, H.E. Schöne, D. Opie, C.E. Stronach, J.H. Brewer, R.F. Kiefl, S.R. Kreitzman, G.M. Luke, T.M. Riseman, D.Ll. Williams, E.J. Ansaldo, Y. Endoh, Y. Kudo, K. Yamada, D.C. Johnston, M.S. Alvarez, D.P. Goshorn, Y. Hidaka, M. Oda, Y. Enomoto, M. Suzuki, T. Murakami  
Physica C153-155, 769-770 (1988).

C34. Static Magnetic Ordering of  $\text{CeCu}_{2.1}\text{Si}_2$  Found by Muon Spin Relaxation  
Y.J. Uemura, W.J. Kossler, X.H. Yu, H.E. Schöne, J.R. Kempton, C.E. Stronach, S. Barth, F.N. Gygax, B. Hitti, A. Schenck, C. Baines, W.F. Lankford, Y. Ooniki, T. Komatsubara  
Physica C153-155, 455-456 (1988).

C35. Antiferromagnetism and Superconductivity in  $\text{YBa}_2\text{Cu}_3\text{O}_{6.95-\delta}$   
G.M. Luke, R.F. Kiefl, J.H. Brewer, T.M. Riseman, D.Ll. Williams, J.R. Kempton, S.R. Kreitzman, E.J. Ansaldo, N. Kaplan, Y.J. Uemura, W.N. Hardy, J.F. Carolan, M.E. Hayden, B.X. Yang  
Physica C153-155, 759-760 (1988).

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C36. Muon Spin Relaxation Studies on High- $T_c$  Superconductors and Related Antiferromagnets (*invited*)

Y.J. Uemura

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C37.  $\mu$ SR Studies on High- $T_c$  Superconductivity (*invited*)

Y.J. Uemura, B.J. Sternlieb, D.E. Cox, V.J. Emery, A.R. Moodenbaugh, M. Suenaga, J.H. Brewer, J.F. Carolan, W.N. Hardy, R. Kadono, J.R. Kempton, R.F. Kiefl, S.R. Kreitzman, G.M. Luke, P. Mulhern, T.M. Riseman, D.Ll. Williams, B.X. Yang, W.J. Kossler, X.H. Yu, H.E. Schöne, C.E. Stronach, J. Goparakrishnan, M.A. Subramanian, A.W. Sleight, H.R. Hart, K.W. Ley, H. Takagi, S. Uchida, Y. Hidaka, T. Murakami, S. Etemad, P. Barboux, D. Keane, V.Y. Lee, D.C. Johnston

J. Physique (Paris) Colloque 49, C8:2087-C8:2092 (1988).

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C38. Combination of Muon Spin Relaxation and Neutron Scattering Studies on Magnetism (*invited*)

Y.J. Uemura

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C39. Probing Magnetism and Superconductivity of High- $T_c$  Systems (*invited*)

Y.J. Uemura, L.P. Le, G.M. Luke, B.J. Sternlieb, J.H. Brewer, R. Kadono, R.F. Kiefl, S.R. Kreitzman, T.M. Riseman

Physica C162-164, 857-860 (1989).

C40.  $\mu^+$ SR Studies of Flux Mobility in the Mixed State of  $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$

B.J. Sternlieb, L.P. Le, G.M. Luke, Y.J. Uemura, J.H. Brewer, J.F. Carolan, P. Dosanjh, W.N. Hardy, R. Kadono, R.F. Kiefl, S.R. Kreitzman, T.M. Riseman, P.W. Schleger, M.R. Davis, C.E. Stronach, Y. Hidaka, T. Murakami, J. Goparakrishnan, A.W. Sleight, M.A. Subramanian, A.R. Strzelecki

Physica C162-164, 679-680 (1989).

C41. Static Magnetic Order in Electron-Superconductor Related Compounds

G.M. Luke, L.P. Le, B.J. Sternlieb, Y.J. Uemura, J.H. Brewer, R. Kadono, R.F. Kiefl, S.R. Kreitzman, T.M. Riseman, M.B. Maple, C.L Seaman, K. Kakurai, S. Uchida, H. Takagi, Y. Tokura, Y. Hidaka, T. Murakami, J. Goparakrishnan, A.W. Sleight, M.A. Subramanian

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C42.  $\mu$ SR Study of Magnetism in  $\text{La}_{1.85}\text{Sr}_{0.15}\text{CuO}_4$  and  $\text{YBa}_2\text{Cu}_3\text{O}_x$  below 90 mK

R.F. Kiefl, E.J. Ansaldo, J.H. Brewer, J.F. Carolan, P. Dosanjh, R. Kadono, J.R. Kempton, W.J. Kossler, R. Krahn, S.R. Kreitzman, G.M. Luke, P.W. Schleger, C.L Seaman, B.J. Sternlieb, H. Takagi, S. Uchida, Y.J. Uemura, B.X. Yang, X.H. Yu, Hu Zhou

Physica C162-164, 161-162 (1989).

C43.  $\mu^+$ SR Line Shape of Oriented and Unoriented High- $T_c$  Superconductors

T.M. Riseman, J.H. Brewer, B.R. Cyca, J.F. Carolan, W.N. Hardy, R.F. Kiefl, M. Celio, W.J. Kossler, Y.J. Uemura, G.M. Luke, B.J. Sternlieb, H.R. Hart, K.W. Ley, H. Kojima, I. Tanaka, K. Kakurai

Physica C162-164, 1555-1556 (1989).

C44. Magnetic Ordering in  $\text{YBa}_2\text{Cu}_3\text{O}_x$  Studied by  $\mu^+$  Spin Rotation

J.H. Brewer, J.F. Carolan, W.N. Hardy, H.R. Hart, R. Kadono, J.R. Kempton, R.F. Kiefl, S.R. Kreitzman, G.M. Luke, T.M. Riseman, P.W. Schleger, B.J. Sternlieb, Y.J. Uemura, D.Ll. Williams, B.X. Yang

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C45. Recent Topics of  $\mu\text{SR}$  Studies on High- $T_c$  Systems (*invited*)

Y.J. Uemura, G.M. Luke, B.J. Sternlieb, L.P. Le, J.H. Brewer, R. Kadono, R.F. Kiefl, S.R. Kreitzman, T.M. Riseman, C.L Seaman, J.J. Neumeier, Y. Dalichaouch, M.B. Maple, G. Saito, H. Yamochi

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C46. Fundamental Similarities between Organic and Cuprate Superconductors Shown by Muon Spin Relaxation Studies

Y.J. Uemura, L.P. Le, G.M. Luke, B.J. Sternlieb, J.H. Brewer, T.M. Riseman, G. Saito, H. Yamochi

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C47. Muon Spin Relaxation Studies on High- $T_c$ , Organic, Heavy-fermion, and Chevrel Phase Superconductors (*invited*)

Y.J. Uemura

Physica B169, 99-106 (1991).

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C48. Correlations between  $T_c$  and  $n_s/m^*$  (carrier density / effective mass) in High- $T_c$  and Organic Superconductors

Y.J. Uemura, L.P. Le, G.M. Luke, B.J. Sternlieb, J.H. Brewer, J.F. Carolan, W.N. Hardy, R. Kadono, R.F. Kiefl, S.R. Kreitzman, T.M. Riseman, C.L Seaman, J.J. Neumeier, M.B. Maple, G. Saito, H. Yamochi, H. Takagi, S. Uchida, J. Goparakrishnan, M.A. Subramanian, A.W. Sleight, Gang Xiao

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- C49.  $\mu^+$ SR Studies on  $\text{Sr}_2\text{CuO}_2\text{Cl}_2$ ,  $\text{La}_2\text{CuO}_4$  and  $\text{Nd}_2\text{CuO}_4$ : 2-d Magnetism, Local Field and Muon Sites  
*L.P. Le, G.M. Luke, B.J. Sternlieb, Y.J. Uemura, J.H. Brewer, T.M. Riseman, D.C. Johnston, L.L. Miller, Y. Hidaka, T. Murakami*  
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- C50.  $\mu$ SR Studies of Heavy Fermion Systems  
*G.M. Luke, L.P. Le, B.J. Sternlieb, Y.J. Uemura, J.H. Brewer, R. Kadono, R.F. Kiefl, S.R. Kreitzman, T.M. Riseman, C.L Seaman, Y. Dalichaouch, M.B. Maple, J.D. Garrett*  
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- C51. Magnetism in Electron-Doped Copper Oxides  
*G.M. Luke, L.P. Le, B.J. Sternlieb, Y.J. Uemura, J.H. Brewer, R. Kadono, R.F. Kiefl, S.R. Kreitzman, T.M. Riseman, C.E. Stronach, M.R. Davis, S. Uchida, H. Takagi, Y. Hidaka, T. Murakami, E.A. Early, J.T. Markert, M.B. Maple, C.L Seaman*  
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- C52. Search for Magnetic Fields due to Anyons in High- $T_c$  Superconductors  
*R.F. Kiefl, J.H. Brewer, I. Affleck, J.F. Carolan, P. Dosanjh, W.N. Hardy, T. Hsu, R. Kadono, J.R. Kempton, S.R. Kreitzman, Q. Li, A.H. O'Reilly, T.M. Riseman, P.W. Schleger, P. Stamp, Hu Zhou, L.P. Le, G.M. Luke, B.J. Sternlieb, Y.J. Uemura, H.R. Hart, K.W. Ley*  
Hyperfine Interact. 63, 139-144 (1990).
- C53. Site of Positive Muon in  $\text{YBa}_2\text{Cu}_3\text{O}_7$   
*J.H. Brewer, R.F. Kiefl, J.F. Carolan, P. Dosanjh, W.N. Hardy, S.R. Kreitzman, Q. Li, T.M. Riseman, P.W. Schleger, Hu Zhou, E.J. Ansaldo, D.R. Noakes, L.P. Le, G.M. Luke, Y.J. Uemura, K. Hepburn-Wiley, C.E. Stronach*  
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- C54.  $\mu$ SR Measurements of Penetration Depth in Exotic Superconductors (*invited*)  
*Y.J. Uemura*  
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- C55.  $\mu$ SR Studies of Exotic Superconductors (*invited*)  
*Y.J. Uemura*  
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- C56. Classifying Superconductors in a Plot of  $T_c$  versus Fermi Temperature  $T_F$  (*invited*)  
*Y.J. Uemura*  
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- C57. Magnetic Penetration Depth and Flux Melting in  $\kappa$ -(BEDT-TTF)<sub>2</sub>-Cu[N(CN)<sub>2</sub>]Br  
*L.P. Le, G.M. Luke, B.J. Sternlieb, W.D. Wu, Y.J. Uemura, H.H. Wang, A.M. Kini, K.D. Carlson, J.M. Williams, C.E. Stronach*  
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- C58. Static Magnetic Order in La<sub>1.875</sub>Ba<sub>0.125</sub>CuO<sub>4</sub>  
*G.M. Luke, L.P. Le, B.J. Sternlieb, W.D. Wu, Y.J. Uemura, J.H. Brewer, T.M. Riseman, S. Isibashi, S. Uchida*  
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- C59. Magnetic Penetration Depth in Layered Compound NbSe<sub>2</sub> Measured by Muon Spin Relaxation  
*L.P. Le, G.M. Luke, B.J. Sternlieb, W.D. Wu, Y.J. Uemura, J.W. Brill, H. Drulis*  
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- C60.  $\mu^+$ SR Measurements on Pure and Copper-doped Samples of 1D Antiferromagnet Ni(C<sub>2</sub>H<sub>8</sub>N<sub>2</sub>)<sub>2</sub>NO<sub>2</sub>(ClO<sub>4</sub>) [NENP]  
*B.J. Sternlieb, L.P. Le, G.M. Luke, W.D. Wu, Y.J. Uemura, T.M. Riseman, J.H. Brewer, Y. Ajiro, M. Mekata*  
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- C61. Muon Spin Relaxation Studies in Organic Superconductors and Organic Materials (*invited*)  
*Y.J. Uemura, L.P. Le, G.M. Luke*  
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- C62. Muon Spin Relaxation Studies in Strongly Correlated Electron Systems (*invited*)  
*Y.J. Uemura, G.M. Luke*  
*Physica B*186-188, 223-228 (1993).
- C63. Muon Spin Relaxation in the Heavy-fermion System UPt<sub>3</sub>  
*G.M. Luke, A. Keren, L.P. Le, W.D. Wu, Y.J. Uemura, D.A. Bonn, L. Taillefer, J.D. Garrett*  
*Physica B*186-188, 264-266 (1993).
- C64.  $\mu$ SR Study of Spin Glass Freezing in Y<sub>1-x</sub>U<sub>x</sub>Pd<sub>3</sub> and UPd<sub>4</sub>: Disappearance of the Ordered Moment in the “Kondo Regime”  
*W.D. Wu, A. Keren, L.P. Le, G.M. Luke, Y.J. Uemura, C.L. Seaman, Y. Dalichaouch, M.B. Maple*  
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- C65. System Dependence of the Magnetic-field Penetration Depth in C<sub>60</sub> Superconductors  
Y.J. Uemura, A. Keren, L.P. Le, G.M. Luke, W.D. Wu, J.S. Tsai, K. Tanigaki, K. Holczer, S. Donovan, R.L. Whetten  
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- C66. Muon Spin Relaxation Studies in Frustrated and/or Low-dimensional Spin Systems (*invited*)  
Y.J. Uemura, A. Keren, L.P. Le, G.M. Luke, B.J. Sternlieb, W.D. Wu  
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- C67. Muon Spin Relaxation in Heavy Fermion Systems (*invited*)  
G.M. Luke, A. Keren, L.P. Le, W.D. Wu, Y.J. Uemura, D.A. Bonn, L. Taillefer, J.D. Garrett, Y. Onuki  
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- C68.  $\mu$ SR Studies in the Heavy Fermion Systems UNi<sub>2</sub>Al<sub>3</sub>, UPd<sub>2</sub>Al<sub>3</sub> and U<sub>2</sub>PtC<sub>2</sub>  
W.D. Wu, A. Keren, L.P. Le, G.M. Luke, B.J. Sternlieb, Y.J. Uemura, N. Sato, T. Komatsubara, G.P. Meisner  
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- C69.  $\mu$ SR Studies in an I<sub>2</sub>-doped Phenylenediamine Polymer  
L.P. Le, A. Keren, G.M. Luke, W.D. Wu, Y.J. Uemura, W.S. Jenks, A. Graff, R. Breslow, P. Dosanjh  
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- C70. Explaining  $\mu^+$  Spin-lattice Relaxation In MnF<sub>2</sub> below  $T_N$  by Scattering Function  
A. Keren, L.P. Le, G.M. Luke, W.D. Wu, Y.J. Uemura  
Hyperfine Interact. 85, 281-286 (1994).
- C71. Magnetic Penetration Depth in V<sub>3</sub>Si and LiTi<sub>2</sub>O<sub>4</sub> Measured by  $\mu$ SR  
W.D. Wu, A. Keren, L.P. Le, G.M. Luke, B.J. Sternlieb, Y.J. Uemura, D.C. Johnston, B.K. Cho, P. Gehring  
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- C72. Muon Spin Relaxation Measurements in Kagomé Lattice System SrCr<sub>3</sub>Ga<sub>4</sub>O<sub>19</sub>  
A. Keren, L.P. Le, G.M. Luke, W.D. Wu, Y.J. Uemura, M. Mekata, Y. Ajiro, H. Kikuchi  
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- C73.  $\mu^+$ SR Study of Two-dimensional Antiferromagnets, Delafossite-type Compounds  
M. Mekata, N. Yaguchi, H. Kuriyama, T. Asano, K. Nagamine, A. Keren, L.P. Le, G.M. Luke, W.D. Wu, Y.J. Uemura  
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- C74. Energy Scales of Exotic Superconductors (*invited*)  
 Y.J. Uemura  
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- C75. Energy Scales of High- $T_c$  Cuprates, Doped Fullerenes, and Other Exotic Superconductors (*invited*)  
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- C76.  $\mu$ SR Measurements of Spin Fluctuations in  $CePt_2Sn_2$   
 G.M. Luke, A. Keren, K. Kojima, L.P. Le, W.D. Wu, Y.J. Uemura, G.M. Kalvius, A. Kratzer, G. Nakamoto, T. Takabatake, M. Ishikawa  
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- C77. Spin-Peierls and Spin-Glass Phases in Pure and Doped  $CuGeO_3$ : a  $\mu$ SR Study  
 O. Tchernyshyov, A.S. Blaer, A. Keren, K. Kojima, G.M. Luke, W.D. Wu, Y.J. Uemura, M. Hase, K. Uchinokura, Y. Ajiro  
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- C78.  $\mu$ SR Experiments on a Haldane System  $(Y_{2-x}Ca_x)BaNiO_5$   
 K. Kojima, A. Keren, L.P. Le, G.M. Luke, W.D. Wu, Y.J. Uemura, K. Kiyono, S. Miyasaka, H. Takagi, S. Uchida  
 J. Mag. Mag. Matr. 140-144 (1995) 1657-1658.
- C79. Muon Spin Rotation Measurements in the "infinite chain"  $Ca_2CuO_3$   
 A. Keren, K. Kojima, L.P. Le, G.M. Luke, W.D. Wu, Y.J. Uemura, S. Tajima, S. Uchida  
 J. Mag. Mag. Matr. 140-144 (1995) 1641-1642.
- C80. Is  $Y(Sc)Mn_2$  Really a Quantum Spin Requirid ?  
 M. Mekata, T. Asano, T. Sugio, H. Nakayama, N. Asai, M. Shiga, A. Keren, K. Kojima, G.M. Luke, W.D. Wu, Y.J. Uemura, S. Dunsiger, M. Gingras  
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- C81. Muon Spin Relaxation Studies in Kagomé Lattice and Other Frustrated Spin Systems (*invited*)  
 Y.J. Uemura  
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- C82. Muon Spin Relaxation and Non-linear Magnetization in the Geometrically Frustrated Antiferromagnet  $Y_2Mo_2O_7$ : Evidence for a Spin Glass Transition  
*S.R. Dunsiger, B.D. Gaulin, M.J.P. Gingras, A. Keren, R.F. Kiefl, K. Kojima, G.M. Luke, W.A. MacFarlane, B. Nachumi, N.P. Raju, J.E. Sonier, C.V. Stager, Y.J. Uemura, W.D. Wu*  
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- • • Presented at the the 14th Annual Conference on Magnetism and Magnetic Materials MMM-14, Philadelphia, USA, November, 1995.
- C83. Low Temperature Spin Dynamics of Geometrically Frustrated Antiferromagnets  $Y_2Mo_2O_7$  and  $Y_2Mo_{1.6}Ti_{0.4}O_7$  Studied by Muon Spin Relaxation  
*S.R. Dunsiger, R.F. Kiefl, K.H. Chow, B.D. Gaulin, M.J.P. Gingras, A. Keren, K. Kojima, G.M. Luke, W.A. MacFarlane, N.P. Raju, J.E. Sonier, Y.J. Uemura, W.D. Wu*  
 J. Appl. Phys. 79 (1996) 6636-6638.
- • • Presented at the the 10th Anniversary HTS Workshop, Houston, Texas, USA, March 12-16, 1996
- C84. Correlations between  $T_c$  and  $n_s/m^*$  in High- $T_c$  Cuprates (*invited*)  
*Y.J. Uemura*  
 Proceedings of the 10th Anniversary HTS Workshop, March 12-16, 1996, Houston, Texas, USA, ed. by B. Batlogg *et al.*, (World Scientific, 1996), pp. 68-71.
- • • Presented at the International Conference on Muon spin Rotation  $\mu$ SR96, Nikko, Japan, April, 1996.
- C85. Universal Correlations, Pseudo-Gaps and Condensation Mechanisms in High- $T_c$  Superconductors (*invited*)  
*Y.J. Uemura*  
 Hyperfine Interact. 105 (1997) 35-46.
- C86. A Comparison of  $\mu$ SR and Thermopower in Hg1:2:0:1 High- $T_c$  Cuprates  
*B. Nachumi, A. Keren, K. Kojima, M. Larkin, G.M. Luke, J. Merrin, W.D. Wu, Y.J. Uemura, Y. Xue, F. Chen, Q. Xiong, Z. Huang, Z. He, Q. Lin, J. Clayford, C.W. Chu*  
 Hyperfine Interact. 105 (1997) 119-124.
- C87.  $La_{2-x}Sr_xCu_{1-y}Zn_yO_4$ :  $T_c$  and  $n_s/m^*$  Correlations Seen with Muon Spin Rotation  
*B. Nachumi, A. Keren, K. Kojima, M. Larkin, G.M. Luke, J. Merrin, O. Tchernyshyov, W.D. Wu, Y.J. Uemura, Y. Fukuzumi, K. Mizuhashi, K. Takanaka, S. Uchida*  
 Hyperfine Interact. 105 (1997) 125-130.
- C88. Muon Spin Relaxation Investigation of Frustrated Antiferromagnetic Pyrochlores  $A_2B_2O_7$   
*S.R. Dunsiger, R.F. Kiefl, K.H. Chow, B.D. Gaulin, M.J.P. Gingras, J.B. Greedan, A. Keren, K. Kojima, G.M. Luke, W.A. MacFarlane, N.P. Raju, J.E. Sonier, Y.J. Uemura, W.D. Wu*  
 Hyperfine Interact. 104 (1997) 275-280.
- C89. Muon Spin Relaxation Measurements of  $CsC_{60}$ ,  $RbC_{60}$ ,  $KC_{60}$   
*M. Larkin, K. Kojima, G.M. Luke, J. Merrin, B. Nachumi, Y.J. Uemura, G. Oszlanyi, O. Chauvet, L. Forro*  
 Hyperfine Interact. 104 (1997) 325-329.

- C90. Depolarization in Reentrant Spin Glasses: A Comparison between Neutron and Muon Probes  
*I. Mirebeau, M. Hennion, M.J.P. Gingras, A. Keren, K. Kojima, M. Larkin, G.M. Luke, B. Nachumi, W.D. Wu, Y.J. Uemura, I.A. Campbell, G.D. Morris*  
 Hyperfine Interact. 104 (1997) 343-348.
- C91. Magnetic Order in  $\text{La}_{2-x}\text{Ba}_x\text{CuO}_4$  and  $\text{La}_{1.6-x}\text{Nd}_{0.4}\text{Sr}_x\text{CuO}_4$  for  $x = 0.125$   
*G.M. Luke, K. Kojima, M. Larkin, J. Merrin, B. Nachumi, Y.J. Uemura, Y. Nakamura, S. Uchida, M. Crawford*  
 Hyperfine Interact. 105 (1997) 113-117.
- C92. Spin Fluctuations and Magnetic Order in the Heavy Fermion Compound  $\text{CePt}_2\text{Sn}_2$   
*G.M. Luke, K. Kojima, M. Larkin, J. Merrin, B. Nachumi, Y.J. Uemura, G.M. Kalvius, A. Brückl, K. Neumaier, K. Andres, G. Nakamoto, M. Sirasi, H. Tanaka, T. Takabatake, H. Fujii, M. Ishikawa*  
 Hyperfine Interact. 104 (1997) 199-203.
- C93. Search for Magnetic Order in Undoped and Doped Spin-gap Systems by  $\mu\text{SR}$   
*K. Kojima, A. Keren, L.P. Le, M. Larkin, G.M. Luke, B. Nachumi, W.D. Wu, Y.J. Uemura, M. Azuma, M. Takano, K. Kiyono, S. Miyasaka, M. Motoyama, H. Takagi, S. Uchida, M. Hase, Y. Sasago, K. Uchinokura, M. Matsuda, K. Katsumata, A. Revcolevschi, R.J. Cava*  
 Hyperfine Interact. 104 (1997) 37-42.
- C94. Zero-field  $\mu\text{SR}$  Studies of the Colossal Magnetoresistance Material  $\text{La}_{0.67}\text{Ca}_{0.33}\text{MnO}_3$   
*R.H. Heffner, L.P. Le, M.F. Hundley, J.J. Neumeier, G.M. Luke, K. Kojima, B. Nachumi, Y.J. Uemura, D.E. MacLaughlin, S.W. Cheong*  
 Hyperfine Interact. 104 (1997) 29-35.
- C95. Low Temperature Magnetic Ordering of  $\text{Ba}_2\text{Cu}_3\text{O}_4\text{Cl}_2$  with  $\text{Cu}_3\text{O}_4$  Planes  
*T. Ito, K. Oka, K. Kojima, G.M. Luke, B. Nachumi, M. Larkin, Y.J. Uemura*  
 Hyperfine Interact. 104 (1997) 85-90.
- C96.  $\mu\text{SR}$  Studies of Li doped  $\text{La}_2\text{CuO}_4$   
*L.P. Le, R.H. Heffner, D.E. MacLaughlin, K. Kojima, G.M. Luke, B. Nachumi, Y.J. Uemura, J.L. Sarrao and Z. Fisk*  
 Hyperfine Interact. 104 (1997) 91-96.
- C97. Spin Fluctuations in  $\text{Y}(\text{Sc})\text{Mn}_2$   
*M. Mekata, T. Asano, H. Nakamura, M. Shiga, K. Kojima, G.M. Luke, A. Keren, W.D. Wu, Y.J. Uemura, S. Dunsiger, M.J.P. Gingras*  
 Hyperfine Interact. 104 (1997) 337-342.
- Presented at the International Conference on Low-Temperature Physics LT-21, Prague, Czechoslovakia, August, 1996.
- C98. Reduced Size of Ordered Moments in a Quasi-1d Antiferromagnet  $\text{Sr}_2\text{CuO}_3$   
*K. Kojima, M. Larkin, G.M. Luke, B. Nachumi, Y.J. Uemura, H. Eisaki, M. Motoyama, S. Uchida, B.J. Sternlieb, G. Shirane*  
 Czechoslovak Journal of Physics, 46 suppl. S4, (1996) 1945-1946.
- C99. Superconductivity and Magnetism in  $\text{UPt}_3$   
*G.M. Luke, J.D. Garrett, K. Kojima, M. Larkin, B. Nachumi, Y.J. Uemura*  
 Czechoslovak Journal of Physics, 46 suppl. S2, (1996) 781-782.

- • • Presented at the 5th International Conference on Superconductivity  $M^2S$ -HTSC-V, Beijing, China, February, 1997.

C100. Bose-Einstein to BCS Crossover Picture for High- $T_c$  Cuprates (*invited*)

Y.J. Uemura

Physica C 282-287 (1997) 194-197.

C101. Magnetic Field Penetration Depth in Single Crystal  $\text{La}_{1.85}\text{Sr}_{0.15}\text{CuO}_4$  and  $\text{Nd}_{1.85}\text{Ce}_{0.15}\text{CuO}_4$

G.M. Luke, Y. Fudamoto, K. Kojima, M. Larkin, J. Merrin, B. Nachumi, Y.J. Uemura, J.E. Sonier, T. Ito, K. Oka, M. de Andrade, M.B. Maple, S. Uchida

Physica C 282-287 (1997) 1465-1466.

C102. Local Suppression of Superconductivity in Zn-substituted High- $T_c$  Cuprates

B. Nachumi, Y. Fudamoto, A. Keren, K. Kojima, M. Larkin, G.M. Luke, J. Merrin, O. Tchernyshyov, Y.J. Uemura, N. Ichikawa, M. Goto, S. Uchida

Physica C 282-287 (1997) 1355-1356.

C103. Cooper Pairs as Low-energy Excitations in the Normal State

O. Tchernyshyov, Y.J. Uemura

Physica C 282-287 (1997) 1809 - 1810.

- • • Presented at the International Conference on Magnetism ICM-97, Cairns, Australia, August, 1997.

C104. Spin Freezing and Ordering in  $\text{CaV}_4\text{O}_9$ ,  $\text{CaV}_3\text{O}_7$  and  $\text{CaV}_2\text{O}_5$

G.M. Luke, Y. Fudamoto, M.J.P. Gingras, K.M. Kojima, M. Larkin, J. Merrin, B. Nachumi, Y.J. Uemura

J. Mag. Mag. Matr. 177 – 181 (1998) 754-755.

C105. Neutron Spin Echo Studies of  $\text{SrCr}_8\text{Ga}_4\text{O}_{19}$

Y.J. Uemura, B.D. Gaulin, M. Mekata, I. Mirebeau, S. Pouget, J.L. Tholence

J. Mag. Mag. Matr. 177 – 181 (1998), 701-702.

C106. Muon Spin Relaxation Measurements of  $\text{LiV}_2\text{O}_4$

J. Merrin, Y. Fudamoto, K.M. Kojima, M. Larkin, G.M. Luke, B. Nachumi, Y.J. Uemura, S. Kondo, D.C. Johnston

J. Mag. Mag. Matr. 177 – 181 (1998), 799 - 800.

- • • Presented at NATO ASI / Scottish University Summer School for Physics, SUSSP51 in Muon Science, St. Andrews, UK, August, 1998

C107.  $\mu\text{SR}$  Relaxation Functions in Magnetic Materials

Y.J. Uemura

in *Muon Science*, ed. by S.L. Lee, S.H. Kilcoyne, R. Cywinski, Institute of Physics Publishing, London, 1999, p.p.85-114.

- • • Presented at the 8th International Conference on Muon Spin Rotation,  $\mu\text{SR}'99$ , Les Diablerets, Switzerland, August-September, 1999

C108.  $\mu\text{SR}$  Studies of Intercalated HfNCl Superconductors

Y.J. Uemura, Y. Fudamoto, I.M. Gat, M.I. Larkin, G.M. Luke, J. Merrin, K.M. Kojima, K. Itoh, S. Yamanaka, R.H. Heffner, D.E. MacLaughlin

Physica B 289 (2000) 389-392.

- C109. Unconventional Superconductivity in  $\text{Sr}_2\text{RuO}_4$   
*G.M. Luke, Y. Fudamoto, K.M. Kojima, M.L. Larkin, B. Nachumi, Y.J. Uemura, J.E. Sonier, Y. Maeno, Z.Q. Mao, Y. Mori, D.F. Agterberg*  
*Physica B289 (2000) 373-376.*
- C110. Static Magnetism in Superconducting Stage-4  $\text{La}_2\text{CuO}_{4+y}$   
*A.T. Savici, Y. Fudamoto, I.M. Gat, M.I. Larkin, Y.J. Uemura, K.M. Kojima, Y.S. Lee, M.A. Kastner, R.J. Birgeneau*  
*Physica B289 (2000) 338-342.*
- C111.  $\mu\text{SR}$  Studies of the Kagomé Antiferromagnet  $(\text{H}_3\text{O})\text{Fe}_3(\text{OH})_6(\text{SO}_4)_2$   
*A. Harrison, K.M. Kojima, A. Wills, Y. Fudamoto, M.I. Larkin, G.M. Luke, Y.J. Uemura, D. Visser, J.S. Lord*  
*Physica B289 (2000) 217-220.*
- C112. Magnetism and Superconductivity of High- $T_c$  Cuprates  $(\text{La},\text{Eu},\text{Sr})_2\text{CuO}_4$   
*K.M. Kojima, H. Eisaki, S. Uchida, Y. Fudamoto, I.M. Gat, A. Kinkhabwara, M.I. Larkin, K.M. Kojima, G.M. Luke, Y.J. Uemura*  
*Physica B289 (2000) 373-376.*
- C113. Magnetic Order of Disturbed Spin Peierls Compound  $(\text{Cu},\text{Mg})\text{GeO}_3$   
*K.M. Kojima, Y. Fudamoto, I.M. Gat, M.I. Larkin, Y.J. Uemura, T. Masuda, K. Uchinokura*  
*Physica B289 (2000) 149-153.*
- C114. Muon Spin Relaxation Measurements of Magnetic-field Penetration Depth in  $\text{Ba}_8\text{Si}_{46}$   
*I.M. Gat, Y. Fudamoto, M.I. Larkin, G.M. Luke, J. Merrin, B. Nachumi, Y.J. Uemura, K.M. Kojima, E. Eiji, S. Yamanaka*  
*Physica B289 (2000) 385-388.*
- C115. Magnetism of Oxygen Deficient Perovskite  $\text{La}_{8-x}\text{Sr}_x\text{Cu}_8\text{O}_{20}$   
*T. Ito, K. Oka, K.M. Kojima, B. Nachumi, M.I. Larkin, J. Merrin, G.M. Luke, Y.J. Uemura*  
*Physica B289 (2000) 198-201.*
- C116. Exponential field Distribution in  $\text{Sr}(\text{Cu}_{1-x}\text{Zn}_x)_2\text{O}_3$   
*M.I. Larkin, Y. Fudamoto, I.M. Gat, A. Kinkhabwara, K.M. Kojima, G.M. Luke, J. Merrin, B. Nachumi, Y.J. Uemura, M. Azuma, M. Takano*  
*Physica B289 (2000) 153-156.*
- C.117. Muon Spin Rotation and Non-Fermi Liquid Behavior in  $\text{UCu}_4\text{Pd}$   
*D.E. MacLaughlin, R.H. Heffner, J.E. Sonier, G.J. Nieuwenhuys, R. Chau, M.B. Maple, B. Andraka, G.M. Luke, Y. Fudamoto, Y.J. Uemura, A. Amato, C. Baines*  
*Physica B289 (2000) 15-18.*
- C118. Evidence for a Distributed Ferromagnetic Transition in  $(\text{La},\text{Ca})\text{MnO}_3$   
*R.H. Heffner, J. Sonier, D.E. MacLaughlin, G.J. Nieuwenhuys, Y.J. Uemura, G.M. Luke, S.W. Cheong*  
*Physica B289 (2000) 61-64.*

••• Presented at the International Conference on Strongly Correlated Electron Systems, SCES'99, Nagano, Japan, August, 1999

- C119. Magnetism of  $\text{CePt}_2\text{Sn}_2$

G.M. Kalvius, K.M. Kojima, M.I. Larkin, G.M. Luke, J. Merrin, B. Nachumi, Y.J. Uemura, A. Brückel, K. Neumaier, K. Andres, C. Paulsn, G. Nakamoto, T. Takabatake  
Physica B281 (2000) 385-388.

• • • Presented at the International Conference on Hyperfine Interactions, South Africa, July, 1999

C120. Spin Freezing in Geometrically Frustrated  $\beta$ -Mn Probed by Muon Spin Relaxation  
M. Mekata, H. Nakamura, M. Shiga, G.M. Luke, K.M. Kojima, B. Nachumi, M. Larkin, Y. Fudamoto, Y.J. Uemura  
Hyperfine Interact. 120 – 121 (1999) 639-643

C121.  $\mu$ SR Study of the S=1/2 Triangular Lattice Antiferromagnet AgNiO<sub>2</sub>  
H. Hikuchi, H. Nagasawa, M. Mekata, Y. Fudamoto, K.M. Kojima, G.M. Luke, Y.J. Uemura, H. Mamiya, T. Naka  
Hyperfine Interact. 120 – 121 (1999) 623-627

• • • Presented at the International Conference on Superconductivity M<sup>2</sup>S-HTSC-VI, Houston, Feb., 2000

C122. Superfluid Density, Condensation, and Phase Separation in High- $T_c$  and Other Exotic Superconductors (*invited*)  
Y.J. Uemura  
Physica C341-348 (2000) 2117-2120.

• • • Presented at the International Conference on Stripes and High- $T_c$  Superconductivity, Stripes 2000, Rome, Italy, Sep., 2000

C123. What Can We Learn from Comparison between Cuprates and He Films?: Phase Separation and Fluctuating Superfluidity (*invited*)  
Y.J. Uemura  
Int. J. Mod. Phys. B14 (2000), 3703-3710.

• • • Presented at the second Polish-US Conference on New Developments in High Temperature Superconductivity, Wroclaw and Karpacz, Poland, 17-21 August, 1998

C123. Bose-Einstein to BCS Crossover as a Model for High- $T_c$  Cuprate Superconductors (*invited*)  
Y.J. Uemura  
in *New Development in High Temperature Superconductivity*, ed. by J. Klamut, B.W. Veal, B.M. Dabrowski, P.W. Klamut, M. Kazimierski, Springer, Heidelberg, 2000, p.p. 193-210.

• • • Presented at the HTSC Workshop associated to the International Conference on Muon Spin Rotation  $\mu$ SR2002, in Williamsburg, Virginia, June 7-8, 2002

C124. Superfluid density of high- $T_c$  cuprate systems: implication on condensation mechanisms, heterogeneity and phase diagram (*invited*)  
Y.J. Uemura  
Solid State Communications 126 (2003) 23-38. (Cond-mat/02-12643).

• • • Presented at the International Conference on Muon Spin Rotation  $\mu$ SR2002, in Williamsburg, Virginia, June 2-7, 2002

- C125. Superfluid density and volume fraction of static magnetism in stripe-stabilized  $\text{La}_{1.85-y}\text{Cu}_y\text{Sr}_{0.15}\text{CuO}_4$   
*K.M. Kojima, S. Uchida, Y. Fudamoto, I.M. Gat, M.I. Larkin, Y.J. Uemura, G.M. Luke*  
*Physica B* **36** (2003) 316-320.
- C126. Spin dynamics in the two dimensional spin system  $\text{SrCu}_2(\text{BO}_3)_2$   
*A. Fukaya, Y. Fudamoto, I.M. Gat, T. Ito M.I. Larkin, A.T. Savici, Y.J. Uemura, P.P. Kyriakou, G.M. Luke, M. Rovers, H. Kageyama, Y. Ueda*  
*Physica B* **326** (2003) 446-449.
- C127. Unconventional Superconductivity in  $(\text{TMTSF})_2\text{ClO}_4$   
*G.M. Luke, M.T. Rovers, A. Fukaya, I.M. Gat, M.I. Larkin, A.T. Savici, Y.J. Uemura, K.M. Kojima, P.M. Chaikin, I.J. Lee, M.J. Naughton*  
*Physica B* **326** (2003) 378-380.
- • • *Presented at the 23rd International Conference on Low Temperature Physics, LT-23, Hiroshima, August 2002*
- C128. Large vortex core at low magnetic induction in  $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$  probed by muon spin rotation  
*R. Kadono, W. Higemoto, W. Koda, M.I. Larkin, G.M. Luke, A.T. Savici, Y.J. Uemura, K.M. Kojima, T. Okamoto, T. Kakeshita, S. Uchida, T. Ito, K. Oka*  
*Physica C* **388** (2003) 631-632.
- C129.  $\mu\text{SR}$  studies of two dimensional antiferromagnets  $\text{CaV}_3\text{O}_7$  and  $\text{SrV}_3\text{O}_7$   
*Y. Fudamoto, I.M. Gat, M.I. Larkin, J. Merrin, B. Nachumi, A.T. Savici, Y.J. Uemura, G.M. Luke, K.M. Kojima, M. Isobe, Y. Ueda, S. Taniguchi, M. Sato*  
*Physica B* **329** (2003) 717-718.
- • • *Presented at the International Conference on Muon Spin Rotation  $\mu\text{SR}2005$ , in Oxford, UK, August 8-12, 2005*
- C130. Twin spin/charge roton mode and superfluid density: Primary determining factors of  $T_c$  in high- $T_c$  superconductors observed by neutron, ARPES, and  $\mu\text{SR}$  (Yamazaki Prize Lecture)  
*Y.J. Uemura*  
*Physica B* **374-375** (2006) 1-8
- C131.  $\mu\text{SR}$  study of the “anti-glass”  $\text{LiHo}_{0.045}\text{Y}_{0.955}\text{F}_4$   
*J. Rodriguez, S.R. Dunsiger, J.B. Kycia, G.J. MacDougall, J.A. Quilliam, P.L. Russo, A.T. Savici, Y.J. Uemura, C.R. Wiebe, G.M. Luke*  
*Physica B* **374-375** (2006) 13-16.
- C132. Muon spin rotation study of  $\text{MgCNi}_3$   
*G.J. MacDougall, R.J. Cava, S.-J. Kim, P.L. Russo, A.T. Savici, C.R. Wiebe, A. Winkels, Y.J. Uemura, G.M. Luke*  
*Physica B* **374-375** (2006) 263-266.
- C133. Magnetism and superconductivity of an electron-doped superconductor  $(\text{Sr}_{(1-x)}\text{La}_x\text{CuO}_2)$   
*K.M. Kojima, K. Kawashima, M. Fujita, K. Yamada, M. Azuma, M. Takano, A. Koda, K. Ohishi, W. Higemoto, R. Kadono and Y.J. Uemura*  
*Physica B* **374-375** (2006) 207-210.
- C134. Muon spin rotation study of field-induced magnetism in heavily overdoped  $\text{La}_{(2-x)}\text{Sr}_x\text{CuO}_4$   
*G.J. MacDougall, R.J. Birgeneau, H. Kim, S.-J. Kim, J. Rodriguez, P.L. Russo, A.T. Savici, Y.J. Uemura, S. Wakimoto, C.R. Wiebe and G.M. Luke*

Physica **B374-375** (2006) 211-214.

C135. Deep muonium state in InSb: Recombination center vs. trapping center

*V.G. Storchak, D.G. Eshchenko, J.H. Brewer, B.A. Aronzon, S.P. Cottrell, R.L. Lichti, A.T. Savici and Y. J Uemura*

Physica **B374-375** (2006) 387-389.

#### IV. Thesis and invited review articles

- R1. Spin Relaxation of Positive Muon in  $ZrH_2$  and  $MnO$   
Y.J. Uemura  
Master Thesis, University of Tokyo (1979).
- R2. Dynamical Properties of Spin Glasses Studied by Muon Spin Relaxation  
Y.J. Uemura  
D.Sc. Thesis, University of Tokyo (1982).
- R3.  $\mu$ SR Studies on Superconductivity: Penetration Depth and Knight Shift (*invited review*)  
Y.J. Uemura  
*Perspectives of Meson Science*, ed. by T. Yamazaki, K. Nakai and K. Nagamine,  
North-Holland, Amsterdam, 1992, pp. 87-111.
- R4.  $\mu$ SR and Magnetism [in Japanese] (*invited review*)  
T. Yamazaki, Y.J. Uemura, K. Nagamine  
Kotai Butsuri 22 (1987) 723-732.
- R5.  $\mu$ SR Studies of High- $T_c$  Superconductivity [in Japanese] (*invited review*)  
Y.J. Uemura  
Parity 3 Vol. 10 (1988) 40-44.
- R6.  $\mu$ SR [in Japanese] (*invited review*)  
Y.J. Uemura  
Kotai Butsuri 25 (1990) 711-722.
- R7.  $\mu$ SR Studies of Superconducting Materials: Penetration Depth and Knight Shift [in Japanese]  
(*invited review*)  
Y.J. Uemura  
Kotai Butsuri 26 (1991) 723-736.
- R8.  $\mu$ SR Spectroscopy [in Japanese]  
Y.J. Uemura  
in *Magnetic Measurements II*, ed. H. Yasuoka and M. Motokawa, Experimental  
Physics Lecture Series, Maruzen, Tokyo, 2000, p.p. 169-197.