In view of the relative sparsity of magnetization data, no attempt is being made to conclusively establish the precise nature of the low-temperature, NFL behaviour of the magnetic susceptibility in the system $UCu_{5-x}Pd_x$. It is noted that an uncertainty exists as to the mechanism(s) that provide for a non-linear field-dependence of magnetization for the two studied compounds, and that this behaviour is at least partly responsible for the observation that the temperature scaling derived from the low-temperature magnetic susceptibility, depends sensitively on the measuring field. Assuming that the curvature in M(H) is an intrinsic property of the material, whether deriving from disorder or from a multichannel Kondo mechanism, the results obtained in this work suggest that at low temperatures, the $H\rightarrow 0$ limiting magnetic susceptibility scales with temperature according to a power-law $\chi(T) \sim T^{-n}$, as opposed to *e.g.* a logarithmic temperature dependence found to date in a number of NFL systems. A power-law magnetic susceptibility can be reconciled with the impurity, multichannel Kondo model. Within the predictions of this model, the electronic specific heat $C(T\rightarrow 0)/T$ should also reveal a power-law temperature dependence, however, a logarithmic behaviour is observed in experiments [66]. Also at variance with the present state of theoretical development are the electrical resistivity data, for which this work establishes a NFL, linear temperature dependence down to 50 mK. Among the proposed future research that were noted for the $UCu_{5-x}Pd_x$ system, measurements at very low temperatures such as the work of Vollmer *et al.* [69] are likely to prove invaluable in the exploration and mapping of the NFL ground state.

References

1. MB Maple, MC de Andrade, J Herrmann, Y Dalichaouch, DA Gajewski, CL Seaman, R Chau, R Movshovich, MC Aronson and R Osborn, J. Low. Temp. Phys. 99 (1995) 223.
2. P Coleman, B Maple and A Millis in *Preface: The International Conference on Non-Fermi Liquid Behaviour in Metals*, Santa Barbara, J. Phys.: Condens. Matter 8 (1996) Nr. 48, and references contained within.
3. MB Maple, RP Dickey, J Herrmann, MC de Andrade, EJ Freeman, DA Gajewski and R Chau, J. Phys.: Condens. Matter 8 (1996) 9773.
4. DE MacLaughlin, OO Bernal and HG Lukefahr, J. Phys.: Condens. Matter 8 (1996) 9855.
5. C Geibel, C Schank, S Thies, H Kitazawa, CD Bredl, A Böhm, M Rau, A Grauel, R Caspary, R Helfrich, U Ahlheim, G Weber and F Steglich, Z. Phys. B-Condensed Matter 84 (1991) 1.
6. C. Geibel, S. Thies, D. Kaczorowski, A Mehner, A Grauel, B Seidel, U Ahlheim, R Helfrich, K Petersen, CD Bredl and F Steglich, Z. Phys. B-Condensed Matter 83 (1991) 305.
7. A de Visser and JJM Franse, J. Magn. Magn. Mater. 100 (1991) 204.
8. B Andraka, Phys. Rev. B 54 (1996) 48.
9. S Süllow, B Ludoph, B Becker, GJ Nieuwenhuys, AA Menovsky, JA Mydosh, SAM Mentink and TE Mason, Phys. Rev. B 52 (1995) 12784.
10. A Amato, R Feyerherm, FN Gygax, A Schenck, M Weber, R Caspary, P Hellmann, C Schank, C Geibel, F Steglich, DE MacLaughlin, EA Knetsch and RH Heffner, Europhys. Lett. 19 (1992) 127.

11. A Krimmel, A Loidl, P Fischer, B Roessli, A Dönni, H Kita, N Sato, Y Endoh, T Komatsubara, C Geibel and F Steglich, Solid State Commun. 87 (1993) 829.
12. A Amato, C Geibel, FN Gygax, RH Heffner, E Knetsch, DE MacLaughlin, C Schank, A Schenck, F Steglich and M Weber, Z. Phys. B-Condensed Matter 86 (1992) 159.
13. M Kyogaku, Y Kitaoka, K Asayama, N Sato, T Sakon, T Komatsubara, C Geibel, C Schank and F Steglich, Physica B 186-188 (1993) 285.
14. R Köhler, J Diehl, H Fischer, N Sato, T Komatsubara, C Geibel and F Steglich, Physica B 186-188 (1993) 288.
15. C Geibel, U Ahlheim, CD Bredl, J Diehl, A Grauel, R Helfrich, H Kitazawa, R Köhler, R Modler, M Lang, C Schank, S Thies, F Steglich, N Sato and T Komatsubara, Physica C 185-189 (1991) 2651.
16. A Krimmel, P Fischer, B Roessli, H Maletta, C Geibel, C Schank, A Grauel, A Loidl and F Steglich, Z. Phys. B-Condensed Matter 86 (1992) 161.
17. L Paolasini, JA Paixão, GH Lander, A Delapalme, N Sato and T Komatsubara J. Phys.: Condens. Matter 5 (1993) 8905.
18. N Sato, N Aso, K Hirota, T Komatsubara, Y Endoh, SM Shapiro, GH Lander and K Kakurai, Phys. Rev. B 53 (1996) 14043.
19. A de Visser, H Nakotte, LT Tai, AA Menovsky, SAM Mentink, GJ Nieuwenhuys and JA Mydosh, Physica B 179 (1992) 84.
20. H Kita, A Dönni, Y Endoh, K Kakurai, N Sato and T Komatsubara, J. Phys. Soc. Japan 63 (1994) 726.
21. A de Visser, K Bakker, LT Tai, AA Menovsky, SAM Mentink, GJ Nieuwenhuys and JA Mydosh, Physica B 186-188 (1993) 291.
22. A de Visser, HP van der Meulen, LT Tai and AA Menovsky, Physica B 199&200 (1994) 100.
23. C Geibel, A Böhm, R Caspary, K Gloos, A Grauel, P Hellmann, R Modler, C Schank, G Weber and F Steglich, Physica B 186-188 (1993) 188.
24. LM Sandratskii, J Kübler, P Zahn and I Mertig, Phys. Rev. B 50 (1994) 15834.
25. J Sticht and J Kübler, Z. Phys. B-Condensed Matter 87 (1992) 299.
26. M Ozaki and K Machida, Physica B 186-188 (1993) 282.
27. F Steglich, U Ahlheim, A Böhm, CD Bredl, R Caspary, C Geibel, A Grauel, R Helfrich, R Köhler, M Lang, A Mehner, R Modler, C Schank, C Wassilew, G Weber, W Assmus, N Sato and T Komatsubara, Physica C 185-189 (1991) 379.
28. K Bakker, A de Visser, LT Tai, AA Menovsky and JJM Franse, Solid State Commun. 86 (1993) 497.
29. A Grauel, A Böhm, H Fischer, C Geibel, R Köhler, R Modler, C Schank, F Steglich, G Weber, T Komatsubara and N Sato, Phys. Rev. B 46 (1992) 5818.
30. K Ghosh, S Ramakrishnan and G Chandra, Phys. Rev. B 47 (1993) 8305.
31. C Wassilew, B Kirsch, G Sparn, C Schank, C Geibel and F Steglich, Physica B 199&200 (1994) 162.
32. C Geibel, C Schank, F Jährling, B Buschinger, A Grauel, T Lühmann, P Gegenwart, R Helfrich, PHP Reinders and F Steglich, Physica B 199&200 (1994) 128.

33. Y Dalichaouch and MB Maple, Physica B 199&200 (1994) 176.
34. S Süllow, B Ludoph, B Becker, GJ Nieuwenhuys, AA Menovsky and JA Mydosh, Phys. Rev. B 56 (1997) 846.
35. MB Maple, Y Dalichaouch, MC de Andrade, NR Dilley, J Herrmann and R Movshovich, J. Phys. Chem. Solids 56 (1995) 1963.
36. P de V du Plessis, AM Strydom and RP Gers, Physica B 230-232 (1997) 610.
37. L Degiorgi, M Dressel, G Grüner, P Wachter, N Sato and T Komatsubara, Europhys. Lett. 25 (1994) 311.
38. T Sakon, K Imamura, N Takeda, N Sato and T Komatsubara, Physica B 186-188 (1993) 297.
39. T Petersen, TE Mason, G Aeppli, AP Ramirez, E Bucher and RN Kleiman, Physica B 199&200 (1994) 151.
40. Y Dalichaouch, MC de Andrade and MB Maple, Phys. Rev. B 46 (1992) 8671.
41. N Hessel Andersen in *Crystalline Electric Field Effects and Structural Effects in f-electron systems*, eds. JE Crow, RP Guertin and TW Mihalisin, Plenum Press (1980) 373.
42. M Kyogaku, Y Kitaoka, K Asayama, C Geibel, C Schank and F Steglich, J. Phys. Soc. Japan 62 (1993) 4016.
43. J Aarts, AP Volodin, AA Menovsky, GJ Nieuwenhuys and JA Mydosh, Europhys. Lett. 26 (1994) 203.
44. J Gan, P Coleman and N Andrei, Phys. Rev. Lett. 68 (1992) 3476.
45. N Sato, T Sakon, N Takeda, T Komatsubara, C Geibel and F Steglich, J. Phys. Soc. Japan 61 (1992) 32.
46. K Oda, T Kumada, K Sugiyama, N Sato, T Komatsubara and M Date, J. Phys. Soc. Japan 63 (1994) 3115.
47. K Sugiyama, K Oda, K Kindo, N Sato, T Komatsubara and M Date, Physica B 206&207 (1995) 424.
48. GH Meaden, *Electrical Resistance of Metals*, Plenum Press (1965).
49. L Paolasini, R Caciuffo, GH Lander, J Rebizant, DA Keen, N Sato and T Komatsubara, J. Phys. Chem. Solids 56 (1995) 1323.
50. N Andrei, Phys. Lett. A 87 (1982) 299.
51. P Schlottmann, Z. Phys. B-Condensed Matter 51 (1983) 223.
52. M Huth, J Hessert, M Jourdan, A Kaldowski and H Adrian, Phys. Rev. B 50 (1994) 1309.
53. B Batlogg, DJ Bishop, E Bucher, B Golding Jr., AP Ramirez, Z Fisk, JL Smith and HR Ott, J. Magn. Magn. Mater. 63&64 (1987) 441.
54. AM Strydom and P de V du Plessis, Physica B 223&224 (1996) 222.
55. AM Strydom and P de V du Plessis, Physica B 230-232 (1997) 62.
56. L Havela, V Sechovský, P Svoboda, M Diviš, H Nakotte, K Prokeš, FR de Boer, A Purwanto, RA Robinson, A Seret, JM Winand, J Rebizant, JC Spirlet, M Richter and H Eschrig, J. Appl. Phys. 76 (1995) 6214.
57. P Schlottmann and PD Sacramento, Adv. Phys. 42 (1993) 641.
58. T Fukushima, S Matsuyama, T Kumada, K Kindo, K Prokeš, H Nakotte, FR de Boer, L Havela, V Sechovský, JM Winand, J Rebizant and JC Spirlet, Physica B 211 (1995) 142.

59. JG Huber, MB Maple and D Wohlleben, J. Magn. Magn. Mater. 1 (1975) 58.
60. JC Gómez Sal, KA McEwen, JI Espeso, M Ellerby, JM Rodríguez Fernández, M de Podesta and JA Blanco, Physica B 199&200 (1994) 514.
61. Z Zołnierek, R Troć and VH Tran, Physica B 163 (1990) 727.
62. HR Ott, H Rudigier, E Felder, Z Fisk and B Batlogg, Phys. Rev. Lett. 55 (1985) 1595.
63. B Andraka, J Dapprich, M Baldus, P Kumar and GR Stewart, Phys. Rev. B 45 (1992) 7481.
64. U Walter, M Loewenhaupt, E Holland-Moritz and W Schablitz, Phys. Rev. B 36 (1987) 1981.
65. R Chau and MB Maple, J. Phys.: Condens. Matter 8 (1996) 9939.
66. B Andraka and GR Stewart, Phys. Rev. B 47 (1993) 3208.
67. R Chau, SH Han, MB Maple, MC Aronson and H v Löhneysen, Physica B 230-232 (1997) 600.
68. L Degiorgi and HR Ott, J. Phys.: Condens. Matter 8 (1996) 9901.
69. R Vollmer, S Mock, T Pietrus, H v Löhneysen, R Chau and MB Maple, Physica B 230-232 (1997) 603.
70. HG Lukefahr, OO Bernal, DE MacLaughlin, CL Seaman, MB Maple and B Andraka, Phys. Rev. B 52 (1995) 3038.
71. OO Bernal, DE MacLaughlin, HG Lukefahr and B Andraka, Phys. Rev. Lett. 75 (1995) 2023.
72. H v Löhneysen, T Pietrus, G Portisch, HG Schlager, A Schröder, M Sieck and T Trappmann, Phys. Rev. Lett. 72 (1994) 3262.
73. H Nakotte, K Prokeš, E Brück, KHJ Buschow, FR de Boer, AV Andreev, MC Aronson, A Lacerda, MS Torikachvili, RA Robinson, MAM Bourke and AJ Schultz, Phys. Rev. B 54 (1996) 12176.
74. AM Tsvelik and M Reizer, Phys. Rev. B 48 (1993) 9887.
75. N Andrei and C Destri, Phys. Rev. Lett. 52 (1984) 364.
76. PD Sacramento and P Schlottmann, Phys. Rev. B 43 (1991) 13294.
77. OO Bernal, DE MacLaughlin, A Amato, R Feyerherm, FN Gygax, A Schenck, RH Heffner, LP Le, GJ Nieuwenhuys, B Andraka, H v Löhneysen, O Stockert and HR Ott, Phys. Rev. B 54 (1996) 13000.
78. MC Aronson, R Osborn, RA Robinson, JW Lynn, R Chau, CL Seaman and MB Maple, Phys. Rev. Lett. 75 (1995) 725.
79. MC Aronson, MB Maple, R Chau, A Georges, AM Tsvelik and R Osborn, J. Phys.: Condens. Matter 8 (1996) 9815.
80. I Affleck and AWW Ludwig, Phys. Rev. B 48 (1993) 7297.
81. G-M Zhang, Z-B Su and L Yu, Phys. Rev. B 53 (1996) 715.
82. E Miranda, V Dobrosavljević and G Kotliar, Physica B 230-232 (1997) 569.
83. B Andraka, Physica B 199&200 (1994) 239.
84. AM Sengupta and A Georges, Phys. Rev. B 52 (1995) 10295.
85. P de V du Plessis, AM Strydom, T Cichorek, R Troć and EM Levin, J. Magn. Magn. Mater. 177-181 (1998) 457.