



UvA-DARE (Digital Academic Repository)

Evolution of Magnetism and its Interplay with Superconductivity in Heavy-Fermion $U(\text{Pt},\text{Pd})_3$

Keizer, R.J.

Publication date
1999

[Link to publication](#)

Citation for published version (APA):

Keizer, R. J. (1999). *Evolution of Magnetism and its Interplay with Superconductivity in Heavy-Fermion $U(\text{Pt},\text{Pd})_3$* . [, Universiteit van Amsterdam]. Universiteit van Amsterdam.

General rights

It is not permitted to download or to forward/distribute the text or part of it without the consent of the author(s) and/or copyright holder(s), other than for strictly personal, individual use, unless the work is under an open content license (like Creative Commons).

Disclaimer/Complaints regulations

If you believe that digital publication of certain material infringes any of your rights or (privacy) interests, please let the Library know, stating your reasons. In case of a legitimate complaint, the Library will make the material inaccessible and/or remove it from the website. Please Ask the Library: <https://uba.uva.nl/en/contact>, or a letter to: Library of the University of Amsterdam, Secretariat, Singel 425, 1012 WP Amsterdam, The Netherlands. You will be contacted as soon as possible.

Published work

1. "Single crystals of several heavy-fermion systems grown by floating zone method",
M. Mihalik, R.J. Keizer, F.E. Kayzel, A. de Visser, A.A. Menovsky, and J.J.M. Franse,
Proceedings of the 21st International Conference on Low Temperature Physics LT21,
Czechoslovak Journal of Physics, Vol. 46 (1996), Suppl. S2, p. 801-802.
2. "Neutron-diffraction study of antiferromagnetic order in $U(\text{Pt},\text{Pd})_3$ ",
A. de Visser, R.J. Keizer, A.A. Menovsky, M. Mihalik, F.S. Tautz, J.J.M. Franse, B.
Fåk, N.H. van Dijk, J. Flouquet, J. Bossy, and S. Pujol, *Physica B* 230-232 (1997), p.
49-52.
3. " μSR study of antiferromagnetic order in $U\text{Pt}_3$ alloyed with Pd",
A. de Visser, R.J. Keizer, R. van Harrevelt, A.A. Menovsky, J.J.M. Franse, A. Amato,
F.N. Gygax, M. Pinkpank, and A. Schenck, *Physica B* 230-232 (1997), p. 53-55.
4. "On the interplay of small-moment magnetism and superconductivity in $U\text{Pt}_3$ ",
A. de Visser, R.J. Keizer, M.J. Graf, A.A. Menovsky, and J.J.M. Franse, *J. Magn.
Magn. Mat.* 177-181 (1998), p. 287-291.
5. " μSR study of magnetism in heavy-fermion $U(\text{Pt},\text{Pd})_3$ ",
A. de Visser, R.J. Keizer, R. van Harrevelt, A.A. Menovsky, J.J.M. Franse, A. Amato,
F.N. Gygax, M. Pinkpank, and A. Schenck, *J. Magn. Magn. Mat.* 177-181 (1998), p.
435-436.
6. "The superconducting phase diagram of $U(\text{Pt}_{1-x}\text{Pd}_x)_3$ ",
R.J. Keizer, A. de Visser, A.A. Menovsky, and J.J.M. Franse, *Physica B* 259-261
(1999), p. 658-659.

7. "Studies of superconductivity in $U(Pt_{1-x}Pd_x)_3$ for $x < 0.006$ ",
M.J. Graf, R.J. Keizer, A. de Visser, and J.J.M. Franse, *Physica B* 259-261 (1999), p. 666-667.
8. "Neutron-diffraction study of the evolution of antiferromagnetic order in UPt_3 doped with Pd", R.J. Keizer, A. de Visser, A.A. Menovsky, J.J.M. Franse, B. Fåk, and J.-M Mignot, *Phys. Rev. B*, 10 pages, in print.
9. "Suppression of superconductivity in single crystals of UPt_3 by Pd substitution",
M.J. Graf, R.J. Keizer, A. de Visser, and J.J.M. Franse, *Phys. Rev. B. Brief Reports*, in print.
10. "Superconductivity in heavy-fermion $U(Pt,Pd)_3$ and its interplay with magnetism",
R.J. Keizer, A. de Visser, M.J. Graf, A.A. Menovsky, and J.J.M. Franse, submitted to *Phys. Rev. B*.
11. "Magnetism in heavy-fermion $U(Pt,Pd)_3$ studied by μSR ",
R.J. Keizer, A. de Visser, A.A. Menovsky, J.J.M. Franse, A. Amato, F.N. Gygax, M. Pinkpank, and A. Schenck, submitted to *J. Phys: Condensed Matter*.

Parts of this thesis were already published:

Chapter 4: 2, 4, 8.

Chapter 5: 3, 5, 11.

Chapter 6: 4, 6, 7, 9, 10.