

Literaturverzeichnis

- [Ash01] Ashcroft, N. W., Mermin, D. N.. „*Festkörperphysik*“. Übers. von Jochen Greß. – München; Wien: Oldenburg, 2001
- [Aka84] Akai, H., Akai, M., Bluegel, S., Zeller, R., and Dederichs, P. H.. „*Hyperfine Fields of Impurities in Ferromagnets*“. Journal of Magnetism and Magnetic Materials 45 (1984): 291-297.
- [Bak62] Baker, J.M., Williams, F.I.B. Proc. Roy. Soc. A267, 283 (1962)
- [Bar82] Barth, H.J.. Dissertation Freie Universität Berlin, 1982.
- [Bel04] Bellini, V., Cottenier, S., Cakmak, M., Manghi, F., and Rots, M.. „*Coordination Dependence of Hyperfine Interactions at Impurities on fcc Metal Surfaces. II. Magnetic Hyperfine Field*“. Physical Review B 70 (2004): 155419.
- [Ber97] Bertschat, H. H., Granzer, H., Haas, H., Kowalik, R., Seeger, S., Zeitz, W.-D.. Phys.Rev. Lett. 78, 342 (1997)
- [Ber03] Bertschat, H. H., Brewer, W., Dietrich, M., Imielski, P., Manzhur, Y., Marszalek, M., Potzger, K., Prandolini, M., Weyer, G., and Zeitz, W.-D.. „*Radioactive Probes on Ferromagnetic Surfaces*“. Proposal of CERN-ISOLDE, Geneva (2003).
- [Ble72] Bleaney, B., „*Magnetic Properties of Rare Earth Metals*“, Hrsg: R.J. Elliott, Plenum Press, London – New York (1972).
- [Blü87] Blügel, S., Akai, H., Zeller, R., Dederichs, P.H.; „*Hyperfine Fields Of 3d and 4d Impurities in Nickel*“ Phys. Rev. B35, 3271 (1987)
- [Bre90] Brewer, W.D.. Hyperfine Interactions 59, 201 (1990)
- [Bie87] Biedermann, K.. „*Beobachtung von Valenzinstabilitäten isolierter Samarium- und Europium-Ionen in Metallen mit Hilfe der TDPAD-Methode*“, Dissertation Freie Universität Berlin, 1987.
- [But89] Butz, T.. „*Analytic Perturbation Functions for Static Interactions in Perturbed Angular Correlations of γ -rays*“. Hyperfine Interactions 52 (1989): 189.
- [Cot04] Cottenier, S., Bellini, V., Cakmak, M., Manghi, F., and Rots, M.. „*Coordination Dependence of Hyperfine Interactions at Impurities on fcc Metal Surfaces. I. Electric Field Gradient*“. Physical Review B 70 (2004): 155418.
- [Cla85] Clarke, L.J., „*Surface Crystallography - An Introduction to Low Energy Electron Diffraction*“, Wiley 1985
- [Dav78] David, Lawrence E.. „*Handbook of Auger Electron Spectroscopy*“. Eden Prairie: Physical Electronics Industries Inc., 1978.
- [Ded85] Dederichs, P.H., Zeller, R., Akai, H., Blügel, S., Oswald, A.. „*Ab Initio Calculations For Impurities In Cu And Ni*“ Philos. Mag. B51, 137 (1985)
- [Ded93] Dederichs, P.H. et. al. Hyp. Int. 78 341-359 (1993)
- [Den07] Denker.A.. Hahn-Meitner-Institut Berlin, 2007 <http://www.hmi.de/SF/SF8/>
- [Die05] Dietrich, M., et. Al. Journal of Magnetism and Magnetic Materials, Volume 294, Issue 3, July 2005, Pages 330-337
- [Ell53] Elliott, R.J., Stevens, K.W.H., Proc. Roy. Soc. A 218 (1953) 553.
- [Ell72] Elliott, R.J.. „*Magnetic Properties of Rare Earth Metals*“ Hrsg.: R.J. Elliott, Plenum Press, London New York (1972)

- [EnS06] Schierle, E.. Dissertation Freie Universität Berlin, 2006
- [Fer65] Ferguson, A. J., „*Angular Correlation Methods in Gamma Ray Spectroscopy*“, Amsterdam 1965
- [Fin90] Fink, R., Wesche, R., Klas, T., Krausch, G., Platzer, R., Voigt, J., Woehrmann, U. and Schatz, G.. „*Step-correlated diffusion of In atoms on Ag(100) and Ag(111) surfaces*“. Surface Science 225 3 (1990): 331-340.
- [Fin93] Fink, R., Runge, B.-U., Jacobs, K., Krausch, G., Lohmüller, J., Luckscheiter, B., Wöhrmann, U. and Schatz, G.. J. Phys.: Condens. Matter 5, (1993) 3837
- [Fir83] Table of Isotopes, 8th Edition, ed. by R. B. Firestone and V. S. Shirley (Wiley, New York 1996)
Q(¹¹¹Cd) aus R. Vianden, Hyp. Int., 15/16 1081 (1983)
- [Fra65] Frauenfelder, H., Steffen, R. M. „*Angular Distribution of Nuclear Radiation*“ in „*Alpha-, Beta- and Gamma-Ray Spectroscopy*“, Hrsg. K. Siegbahn, North Holland, Amsterdam 1965
- [Fre67] Freeman, A.J., Watson, R.E.. „*Hyperfine Interactions*“, Hrsg.: A.J., Freeman und R.B. Frankel, Academic Press, New York (1967)
- [Fre72] Freeman, A.J.. „*Magnetic Properties of Rare Earth Metals*“ Kap.6, edit. J. Eliot, Plenum London (1972);
- [Fre91] Freeman, A.J., Wu, R.. Jour. Mag. Mat. 100, 497 (1991)
- [Grd84] Grämann, U., Bergholz, R., Phys. Rev. Lett. 52, 771 (1984)
- [GraPh] Granzer, H., „*PAC-Untersuchungen zum Grenzflächenmagnetismus von Ni und Ni/Pd*“, Dissertation Freie Universität Berlin 1996
- [Gran96] Granzer, H., Bertschat, H. H., Haas, H., and Zeitz, W.-D.. „*Magnetic Hyperfine Fields at Se Adatoms on Ni Surfaces*“. Physical Review Letters 77 20 (1996): 4261-4264.
- [Gue64] Günther, L., Lindgren, I.. „*Perturbed Angular Correlations*“, Hrsg.: E. Karlsson. E. Matthias und K. Siegbahn; North-Holland, Amsterdam (1964)
- [Haa83] Haas, H.. Z. Naturforsch. 50a, 407 (1993)
- [Hen94] Henzel, M., Göpel, W., „*Oberflächenphysik des Festkörpers*“, Teubner Stuttgart (1994)
- [Her05] Hermann, K.. BALSAC picture gallery. Theory department, Fritz-Haber-Institute, Berlin. 23 Jul. 2005. <<http://www.fhi-berlin.mpg.de/th/personal/hermann/pictures.html>>
- [Hov86] Van Hove, M.A., Weinberg, W.H., Chan, C.-M., „*Low-Energy Electron Diffraction*“, Springer Series in Surface Science 6, Springer 1986
- [Hun89] Hunger, E., „*Charakterisierung von Adsorbatplätzen und Diffusionsschritten von In und Cd auf Pd(111)-Oberflächen*“, Dissertation Freie Universität Berlin 1989
- [Hol85] Hollemann, A. F., Wiberg, N.. „*Lehrbuch der Anorganischen Chemie*“ Walter de Gruyter, Berlin (1985)
- [Hun90] Hunger, E., Haas, H.. „*Adsorption Sites and Diffusion Steps of In and Cd on Pd(111) Surfaces*“. Surface Science 234 (1990): 273-286.
- [Iso05] Isolde Web. 15 Apr. 2005. <http://isolde.web.cern.ch/ISOLDE/>
- [Iso07] Abbildung: Uwe Georg, ISOLDE, <http://isolde.web.cern.ch/ISOLDE/>
- [Joy93] Joyce, B.A., et. al. Surf. Sci. 298 , 399-407 (1993)

- [Kap02] E. Kapon, „*Semiconductor quantum wires and quantum dots grown by seeded self-ordering on nonplanar surfaces*“, Book of Abstracts, 2nd Lion Symposium, Villigen, 2002
- [Kan81] Kanamori, J., Yoshida, H. K., Terakura, K., Hyp. Int. 9, 363 (1981)
- [Kit96] Kittel, C.. „*Introduction to Solid State Physics*“. New York: John Wiley & Sons, 1996.
- [Kit99] Kittel, C.. „*Einführung in die Festkörperphysik*“, R. Oldenbourg Verlag 1999
- [Kla89] Klas, T., Fink, R., Krausch, G., Platzer, R., Voigt, J., Wesche, R., Schatz, G.. „*Isolated indium atoms on copper surfaces: A perturbed γ - γ angular correlation study*“. Surface Science 216 1-2 (1989): 270-302.
- [Kok03] Kokalj, A.. „*Computer Graphics and Graphical User Interfaces at Tools in Simulations of Matter at the Atomic Scale*“. Computational Material Science 28 (2003): 155-168.
- [Kug92] Kugler, E., Nucl. Instr. A Meth. in Pys. Res. B 70, 41 (1992)
- [Lin64] Lindgren, I.. „*Peturbed Angular Correlations*“, Hrsg.: E. Karlsson, E. Matthias, K. Siegbahn, North-Holland, Amsterdam (1964)
- [Lin93] Lindgren, B., Ghandour, A.. „*Calculations of the Cd hyperfine field and EFG on Ni surfaces*“. Hyperfine Interactions 78 (1993): 291-294.
- [Lin96] Lindgren, B.. *Depack Software*. Hyperfine Interactions C 1 (1996): 613.
- [Lin02] Lindgren, B.. „*EFGs on Surfaces – Experiment and Theory*“. Z. Naturforsch. 57 a (2002): 544-556.
- [Mah85] Bertschat, H.H., Haas H., Mahnke, H.-E., Netz G., Barth, J., Luszik-Bhadra, M. and Riegel, D. „*Local susceptibilities of isolated impurities in Cerium metal*“ Journal of Magnetism and Magnetic Materials 47&48 (1985) 592-594 North-Holland, Amsterdam
- [Man05] Manzhur, Y., Imielski, P. M., Potzger, K., Brewer, W. D., Dietrich, M., Prandolini, and Bertschat, H. H.. „*Magnetic Anisotropy of Ni Modified by Extreme Lattice Expansion*“ The European Physical Journal B 46 (2005): 535-540.
- [ManPh] Manzhur, Y. Doktorarbeit Freie Universität Berlin, 2005.
- [Mav98] Mavropoulos, Ph., and Stefanou, N.. „*Hyperfine Fields of sp Impurities on Ni and Fe Surfaces*“. Physical Review Letters 81 7 (1998): 1505-1508.
- [Mav03] Mavropoulos, Ph.. „*Coordination dependence of hyperfine fields of 5sp impurities on Ni surfaces*“. Journal of Physics: Condensed Matter 15 (2003): 8115-8112.
- [Omi03] Omicron Nanotechnology, 2003, <http://www.omicron.de/>
- [Pas64] Passel, L., Sailor, V.L., Schermer, R.L.. Physical Review 135A, 1767 (1964)
- [Pot98] Potzger, K., Diplomarbeit „*Struktur und Magnetismus an einer NiPd-Grenzfläche*“, Humboldt Universität zu Berlin, 1998
- [Pot01] Potzger, K., Doktorarbeit „*Ni-Einkristalloberflächen und Ni/Pd-Grenzflächen untersucht mit radioaktiven Sonden*“ FU Berlin, 2001
- [Pot02] Potzger, K., Weber, A., Bertschat, H. H., and Zeitz W.-D.. „*Coordination-Number Dependence of Magnetic Hyperfine Fields at ^{111}Cd on Ni Surfaces*“. Physical Review Letters 88 24 (2002): 247201.
- [Pot04] Potzger, K., Weber, A., Manzhur, Y., Prandolini, M. J., Bertschat, H. H., Zeitz, W.-D., and Dietrich, M.. „*Surface and Interface Investigations Using Radioactive Atoms*“. Physica Status Solidi (c) 1 12 (2004): 3275-3283.

- [Pra04] Prandolini, M. J., Manzhur, Y., Weber, A., Potzger, K., and Bertschat, H. H.. „*Impurity-Induced Magnetic Units Embedded In Ferromagnetic Surfaces*“. Applied Physics Letters 85 1 (2004): 76-78.
- [Pra05] Prandolini, M. J.. Habilitation of Freie Universität Berlin, 2005.
- [Rag89] Raghavan, P., At. Data Nucl. Data Tables 42, 189 (1989).
- [Rao85] Rao, G.N.. Hyperfine Interactions 24-26, 1119 (1985)
- [Sam03] Samohvalov, V. PhD thesis of Technical University Bergakademie Freiberg, 2003.
- [Sch92] Schatz, G., Weidinger, A., „*Nukleare Festkörperphysik*“, Teubner 1992
- [Sch96] Schatz, G., Weidinger, A., Trans Gardner, John A.. „*Nuclear Condensed Matter Physics – Nuclear Methods and Applications*“. New York: John Wiley and Sons, 1996.
- [Sch06] Schubert, J. Diplomarbeit, Freie Universität Berlin, Berlin, Germany, 2006
- [See93] Seeger, S., „*Untersuchungen zum Magnetismus in Pd-Ni-Schichtsystemen mit der nuklearen Sonde $^{100}\text{Pd}/^{100}\text{Rh}$* “, Dissertation Freie Universität Berlin, 1993
- [Shi68] Shirley, D. A., Rosenblum, S. S., and Matthias, E.. „*Hyperfine Field at Solutes in Ferromagnets: Cadmium and Ruthenium in Nickel*“. Physical Review 170 2 (1968): 363-378.
- [Ste94] Stewart, G.A., Materials Forum 18 (1994) 177.
- [Tay75] Taylor, R.H.. Advan. Phys. 24, 681 (1975)
- [Tab05] Table of Isotopes. Ernest O. Lawrence Berkeley National Laboratory. 9 Sep. 2005.
[<http://ie.lbl.gov/education/isotopes.htm>](http://ie.lbl.gov/education/isotopes.htm)
- [VoiPh] Voigt, J., „*Magnetische Hyperfeinfelder und atomare Dynamik an einkristallinen Grenzflächen und in ultradünnen Filmen*“, Dissertation Universität Konstanz (1990)
- [Voi90] Voigt, J., Fink, R., Krausch, G., Luckscheiter, B., Platzer, R., Woehrmann, U., Ding, X. L., and Schatz, G.. „*Magnetic Hyperfine Field at ^{111}In Probes in the Topmost Atomic Layer of Ni(111) Surfaces*“. Physical Review Letters 64 18 (1990): 2202-2205.
- [Voi91] Voigt, J., Ding, X. L., Fink, R., Krausch, G., Luckscheiter, B., Platzer, R., Wöhrmann, U., and Schatz, G.. „*Monolayer-Resolved Detection of Magnetic Hyperfine Fields at Cu/Ni(111) Interfaces*“. Physical Review Letters 66 24 (1991): 3199-3202.
- [Wey89] Weyer, G., Hyperfine Interactions 51, 901 (1989)
- [Waa81] de Waard, H., Hafemeister, D. W., Niesen, L., Pleiter, F., Phys. Rev. B 24, 1274 (1981)