

Publikationen

Freie Universität Berlin

- K. M. Döbrich, M. Wietstruk, J. E. Prieto, F. Heigl, O. Krupin, K. Starke, and G. Kaindl. “Temperature-Induced Reversal of Magnetic Interlayer Exchange Coupling”. (submitted to *Phys. Rev. Lett.*).
- C. Gahl, A. Azima, M. Beye, M. Deppe, K. Döbrich, U. Hasslinger, F. Hennies, A. Melnikov, M. Nagano, A. Pietzsch, M. Wolf, W. Wurth, and A. Föhlisch. “A Femtosecond X-Ray/Optical Cross-Correlator”. *Nature Photonics*, 2008 (in press).
- K. M. Döbrich, G. Bihlmayer, K. Starke, J. E. Prieto, K. Rossnagel, H. Koh, E. Rotenberg, S. Blügel, and G. Kaindl. “Electronic Band Structure and Fermi Surface of Ferromagnetic Tb: Experiment and Theory”. *Phys. Rev. B*, Vol. 76, pp. 035123, 2007.
- J. E. Prieto, O. Krupin, S. Gorovikov, K. Döbrich, G. Kaindl, and K. Starke. “Magnetism of Ordered Sm/Co(0001) Surface Structures”. *Phys. Rev. B*, Vol. 72, pp. 092409, 2005.
- J. E. Prieto, O. Krupin, K. Döbrich, F. Heigl, G. Kaindl and K. Starke. “X-Ray Magneto-Optics of Lanthanide Materials: Principles and Application”. *Appl. Phys. A*, Vol. 80, pp. 1021, 2005.
- O. Krupin, G. Bihlmayer, K. Starke, S. Gorovikov, J. E. Prieto, K. Döbrich, S. Blügel, and G. Kaindl. “Rashba Effect at Magnetic Metal Surfaces”. *Phys. Rev. B*, Vol. 71, pp. 201403(R), 2005.
- O. Krupin, J. E. Prieto, S. Gorovikov, K. Döbrich, G. Bihlmayer, S. Blügel, G. Kaindl, K. Starke. “Spin-Orbit Interaction in a Plane with Electric and Magnetic Fields”. *BESSY — Highlights*, pp. 20, 2004.

in Vorbereitung

- K. M. Döbrich, K. Starke, A. Bostwick, E. Rotenberg, and G. Kaindl. “Direct Observation of Fermi-Surface Nesting in Terbium and Dysprosium Metal”.

- K. M. Döbrich, K. Starke, A. Bostwick, K. Rossnagel, E. Rotenberg, and G. Kaindl. “Influence of Magnetic Phase Transition on Gd Electronic Band Structure and Fermi Surface”
- O. Krupin, G. Bihlmayer, K. M. Döbrich, J. E. Prieto, K. Starke, S. Gorovikov, S. Blügel, S. Kevan, and G. Kaindl. “Rashba Effect at the Surfaces of Rare-Earth Metals and Monoxides”.

Universität des Saarlandes

- K. M. Döbrich, C. Rau, and C. E. Krill III. “Quantitative Characterization of the Three-Dimensional Microstructure of Polycrystalline Al-Sn Using X-Ray Microtomography”. *Metall. Mater. Trans. A*, Vol. 35, pp. 1953, 2004.
- C. E. Krill III, K. M. Döbrich, M. Ziehmer and C. Rau. “Microstructural Characterization in 3D—The Key to Understanding Grain Growth in Polycrystalline Materials?” In: U. Bonse, Ed., *Developments in X-Ray Tomography IV*, Proc. SPIE, Vol. 5535, pp. 274, SPIE Press, Bellingham, WA, 2004. (invited paper).
- C. E. Krill III, K. Döbrich, D. Michels, A. Michels, C. Rau, T. Weitkamp, A. Snigirev and R. Birringer. “Tomographic Characterization of Grain-Size Correlations in Polycrystalline Al-Sn”. In: U. Bonse, Ed., *Developments in X-Ray Tomography III*, Proc. SPIE, Vol. 4503, pp. 205, SPIE Press, Bellingham, WA, 2002.
- C. Rau, T. Weitkamp, A. Snigirev, C. Schroer, B. Benner, J. Tümmler, T. Günzler, M. Kuhlmann, B. Lengeler, C. Krill, K. Doebrich, D. Michels, A. Michels. “Tomography with high resolution”. In: U. Bonse, Ed., *Developments in X-Ray Tomography III*, Proc. SPIE, Vol. 4503, pp. 14, SPIE Press, Bellingham, WA, 2002.