

# Publications

A. Melnikov, I. Radu, U. Bovensiepen, O. Krupin, K. Starke, E. Matthias, and M. Wolf. *Coherent Optical Phonons and Parametrically Coupled Magnons Induced by Femtosecond Laser Excitation of the Gd(0001) surface*. Phys. Rev. Lett. 91, 227403 (2003)

A. Melnikov, U. Bovensiepen, I. Radu, O. Krupin, K. Starke, E. Matthias, and M. Wolf. *Picosecond magnetization dynamics of the Gd(0001) surface*. J. Magn. Magn. Mater. 272-276, 1001-1002 (2004)

U. Bovensiepen, A. Melnikov, I. Radu, O. Krupin, K. Starke, M. Wolf, and E. Matthias. *Coherent surface and bulk vibrations induced by femtosecond laser excitation of the Gd(0001) surface state*. Phys. Rev. B 69, 235417 (2004)

A. Melnikov, I. Radu, U. Bovensiepen, K. Starke, M. Wolf, and E. Matthias. *Spectral dependence of time-resolved coherent and incoherent second-harmonic response of ferromagnetic Gd(0001)*. J. Opt. Soc. Am. B., 22, 204(2005)

M. Lisowski, P.A. Loukakos, A. Melnikov, I. Radu, L. Ungureanu, M. Wolf, and U. Bovensiepen. *Femtosecond Electron and Spin Dynamics in Gd(0001) Studied by Time-Resolved Photoemission and Magneto-Optics*. Phys. Rev. Lett. 95, 137402 (2005)

I. Radu, A. Melnikov, U. Bovensiepen, K. Starke, and M. Wolf *Temperature-dependent study of the coherent lattice and spin excitations at the Gd(0001) surface*. (in preparation)

I. Radu, A. Melnikov, U. Bovensiepen, and M. Wolf *Phonon echo dynamics on Y(0001)/W(110)*. (in preparation)

