LINEAR MAGNETIC DICHROISM IN THE ANGULAR DISTRIBUTION OF PHOTOELECTRONS: MEASUREMENTS AT HIGH KINETIC ENERGY AT ELETTRA.

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We present Fe 3p and Fe 2p LMDAD data measured in chiral geometry on the Fe(100) surface on the SuperESCA beamline at ELETTRA. The azymuthal angle dependence of the LMDAD effect was explored as well as the polar angle dependence near photoelectron forward scattering conditions. At high kinetic energy the dichroism curves are connected with the bulk magnetization of iron. The data are discussed in terms of the possibility of tuning the bulk to surface sensitivity in a magnetometry based on photoemission magnetic dichroism.