

Magneto-optical spectroscopy of Pt/Co/Pt trilayers irradiated with single pulse of soft X-Rays emitted from laser

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Magnetic and magneto-optical properties of Pt/Co/Pt epitaxial trilayers were irreversibly modified by single pulse irradiation at Prague Asterix Laser System. A transition between in-plane magnetization state into perpendicular state was observed. Polar magneto-optical Kerr effect magnetometry together with magnetic force microscopy were used to control magnetic properties, while magneto-optical spectroscopy sensitive to intermixing at the interfaces [1] was used for simulation of depth concentration profiles.

References:

[1] E. Jakubisova-Liskova, et al., J. Appl. Phys. 115, 17C106 (2014).

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