KINETICS OF A PHOTOINDUCED MAGNETIC DEFECT

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S u m m a r y

Photoinduced changes of magnetic anisotropy in a ferrite-garnet (110)-single crystal with photomagnetic properties are examined. It is shown that irradiation of photomagnetic media leads to the formation of a magnetic defect, a local region with spatially inhomogeneous distribution of the magnetic anisotropy energy density. This distribution is caused by the spatial dispersions of the of uniaxial magnetic anisotropy and the summetry axis orientation which appear and change during irradiation. Formation and growth of the region with initial magnetic phase metastable state is a result of such changes.