

In this work we study thin epilayers of new antiferromagnetic semimetal CuMnAs by time-resolved magneto-optical experiments. In 10 nm layers of CuMnAs, we observed a harmonic dependence of the dynamical magneto-optical signal on the orientation of probe pulse linear polarization. This shows that in this 10 nm layer there is an in-plane uniaxial magnetic anisotropy which can be detected due to a quadratic magneto-optical effect - magnetic linear dichroism. From the measured data we also estimated the Néel temperature and the spectral variation of the magneto-optical coefficient describing the magnitude of the magnetic linear dichroism in this sample.