Journal of Physics: Conference Series 2015 vol.613 N1

Strong focusing higher-order laser modes: Transverse and longitudinal optical fields

Kharitonov A., Kharintsev S. Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

© Published under licence by IOP Publishing Ltd. The distribution of transverse and longitudinal optical fields in tightly focused higher-order laser beams is investigated. Polarization-dependent fingerprints of transverse and longitudinal optical fields are experimentally captured by means of photoinduced surface deformations in azobenzene polymer thin films.

http://dx.doi.org/10.1088/1742-6596/613/1/012010