

Annotation

Investigation of optical defects in dielectric crystals.

Scientific chief

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The main purpose of this work is investigation of optical defects organization in crystals, in dependence of crystallization process condition.

Three methods were used in experiment for defects investigation: interference method, polarization method and dispersion with low angle.

The base result of the work is reconstruction, adjustment of Mah-Tsender interferometer and upgrade of experimental equipment with modern digital system for interferogram scanning and analysis, estimating of equipment sensibility, organization of test experiments sequence with laser dielectric crystals.