

RADIATION CHANGES
OF DOUBLYREFRACTIVITY
OF CRYSTALS TRIGLYCINSULPHATE

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S u m m a r y

The temperature-spectral (350 - 750 nm, 20 - 75 °C) and dose (to 16 Mrad) dependences of birefringence Δn_z of irradiative crystals TGS, which characterize pyroelectric sensibility, changes of dose of Kuri temperature and combination of appropriate electrooptical coefficient R_{3i} have been researched. Two regions of dose (limit ~ 6 Mrad) with different sensibility of investigated characteristics have been determined. The temperature-spectral diapasons and points with maximum sensibility and stability of parameters of crystals TGS to radiation damage have been expressed. The necessity of taking into account of spectral dependences $\Delta n(\lambda)$ for the estimation of dose sensibility of recording systems has been displayed.