

INFLUENCE OF Cu ADMIXTURE
ON NONLINEAR OPTICAL PROPERTIES
OF CdI₂ MONOCRYSTALS

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S u m m a r y

In CdI₂ single crystals doped with CuI, SHG of a picosecond YAG-Nd laser and the influence of an anisotropy of chemical bonds on the SHG efficiency are studied. We show that the main effect on the output nonlinear optical susceptibility of the investigated CdI₂⁻ Cu crystals is due to local inhomogeneities: the anisotropy of chemical bonds and the presence of (Cu²⁺ I₆⁻)⁻⁴ complexes localized between and inside layers.