

OPTIMIZATION OF A RING-LOOP SELF-PUMPED
OSCILLATOR BASED ON $\text{Sn}_2\text{P}_2\text{S}_6$
PHOTOREFRACTIVE CRYSTAL

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S u m m a r y

The main parameters of a ring self-pumped phase conjugate mirror with the $\text{Sn}_2\text{P}_2\text{S}_6$ photorefractive crystal are studied in dependence of the experimental geometry factors. A numerical model describing the variation of the phase conjugate reflectivity and dynamic characteristic is proposed. The model can be used for the optimization of the performance of the photorefractive elements based on $\text{Sn}_2\text{P}_2\text{S}_6$ crystals.