GENERATION OF MICROSECOND LASER PULSES

Roman OSTROWSKI

ABSTRACT *New laboratory model of Q-switched Nd:YAG laser operated at 1.32 μm, with intra-cavity second harmonic generation is presented in the paper. In the overcoupling regime of SHG, the laser emitted red radiation pulses at wavelength of 0.66 μm. Pulses with maximum energy of 1.1 mJ and duration up to 2.8 μs has been achieved.*

Keywords: *Nd:YAG laser, intracavity frequency conversion, red laser, pulse stretching*