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Manuel Pédagogique : Laser à pompage optique par diodes (DPSSL)



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This comprehensive manual covers almost all aspects of diode pumped solid Nd:YAG laser including optical pumping, the generation of short pulses and second harmonic generation.

Within the theoretical part of the manual the entire background for optical pumping of solid state laser is given.

The rate equation model is introduced and discussed. Gaussian beams, optical resonator with their stability criteria are described in detail.

Nonlinear optics to understand the second harmonic and q-switch generation are introduced as well. Within the practical part the stepwise setup, alignment and measurements are described and illustrated.