

List of tables

Table. 1.3-1 Estimations on the optical damage threshold based on parameters used in literature for 200 fs laser irradiation of fused silica at 1053 nm and 800 nm. The damage threshold criterion is defined by a critical density $n_{cr}=1.74 \times 10^{21} \text{ cm}^{-3}$. The exact values for the MPI and avalanche rates remain somewhat controversial..... 18

Table. 1.3-2 Percentage changes in the threshold fluence for laser pulses of different durations at 1053 nm when the input parameters (MPI rate, avalanche rate, critical density and trapping times) vary..... 24