

Data from A. Poyé

Data file names:

Figure5\_El-dl.pdf: image of figure 5

Figure\_scan\_El\_dl\_light: Matlab code and input deck used to generate figure 5

Figure6\_El\_dt.pdf: image of figure 6

Figure\_scan\_El\_dt\_light: Matlab code and input deck used to generate figure 6

Figure 5 caption:

Target charge  $Q_e$  in  $n_c$  calculated from the model as a function of the absorbed laser energy and the focal spot diameter for the pulse duration of 1 ps, wavelength 0.8  $\mu\text{m}$  and an insulated and laser size target. There is a optimal spot diameter for the target charging.

Figure 6 caption:

Target charge  $Q_e$  in  $n_c$  calculated from the model as a function of the absorbed laser energy and the target diameter for the pulse duration of 1 ps, the focal spot diameter of 10  $\mu\text{m}$ , wavelength of 0.8  $\mu\text{m}$  and an insulated target. There is a threshold on the target diameter below which the target charging becomes dependent to it.