Electronic Supplementary Information.

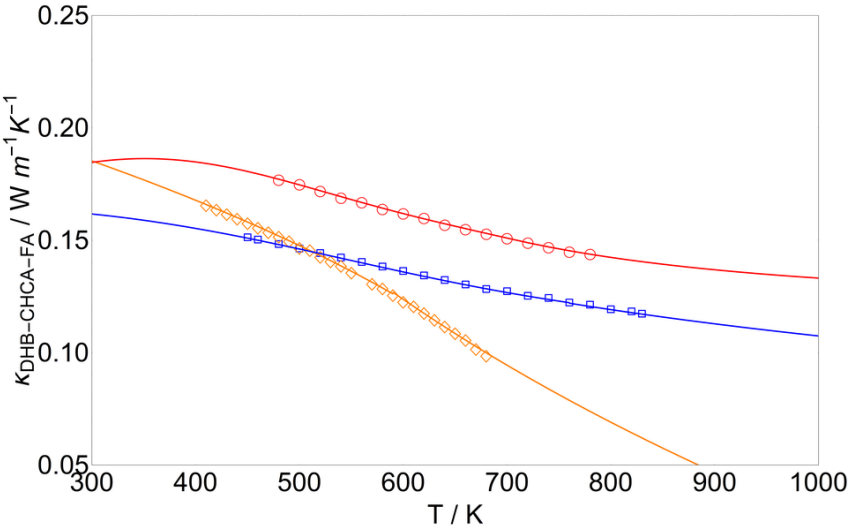

Fig. 1. Conductivity as a function of T for DHB (circles), CHCA (rhombus) and FA (squares).

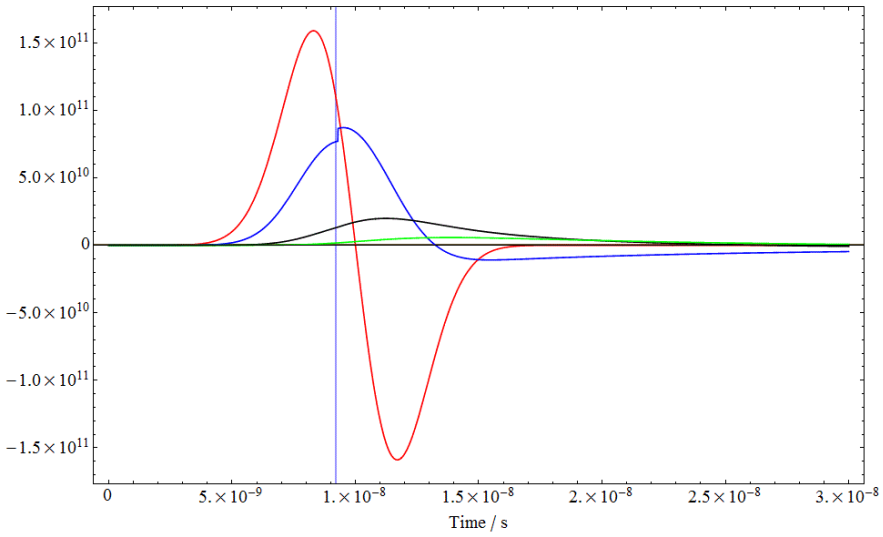

Fig. 2. First derivative of T-transients for a fluence of 7.5 mJ/cm^2. Laser (red) first layer (blue), second layer (black) and third layer (green).

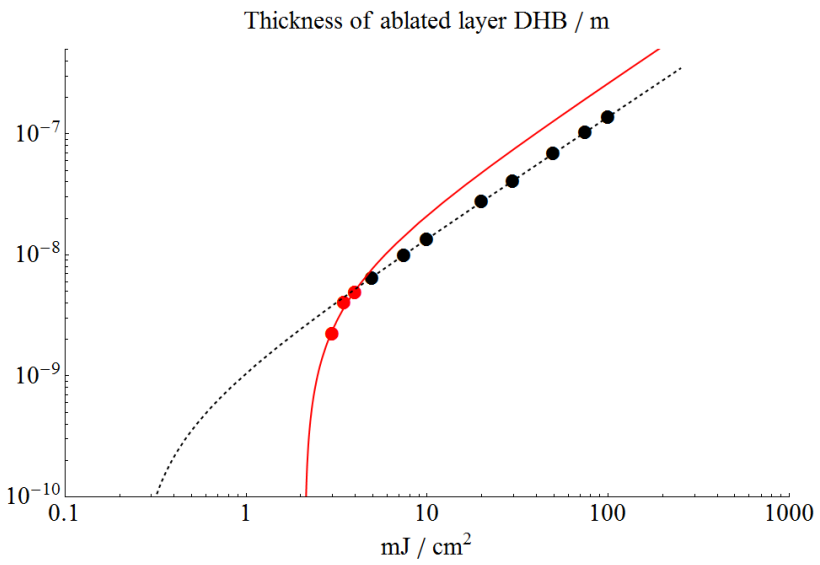

Fig. 3. Variation of $\Delta\beta$ for DHB (χ=1) as a function of fluence.

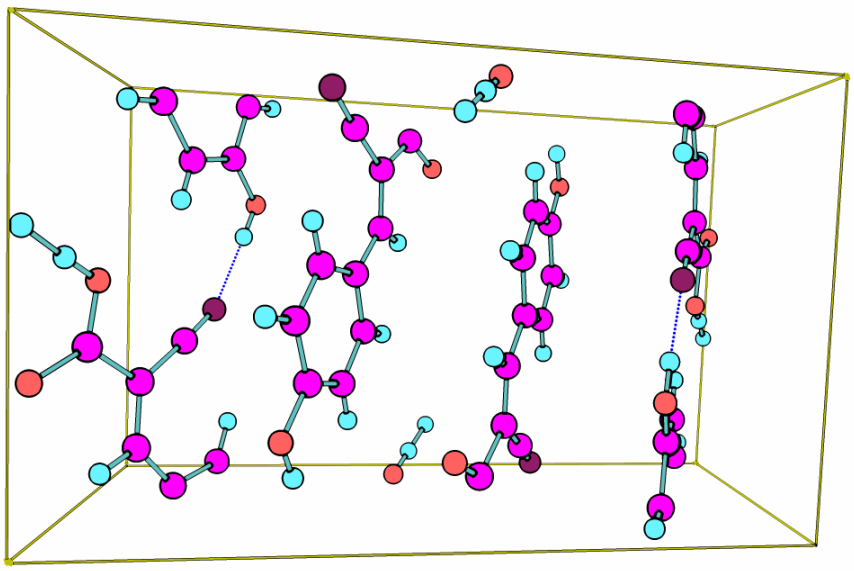

Fig. 4: Unit cell of CHCA.

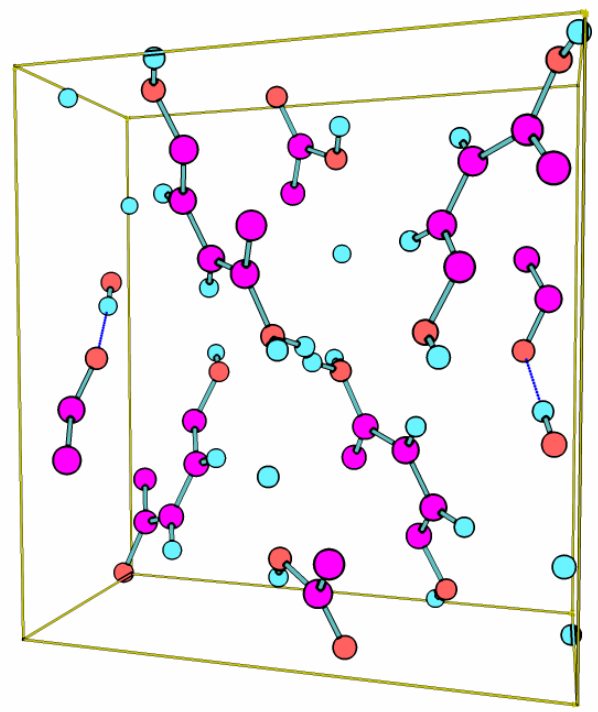

Fig. 5: Unit cell of DHB.

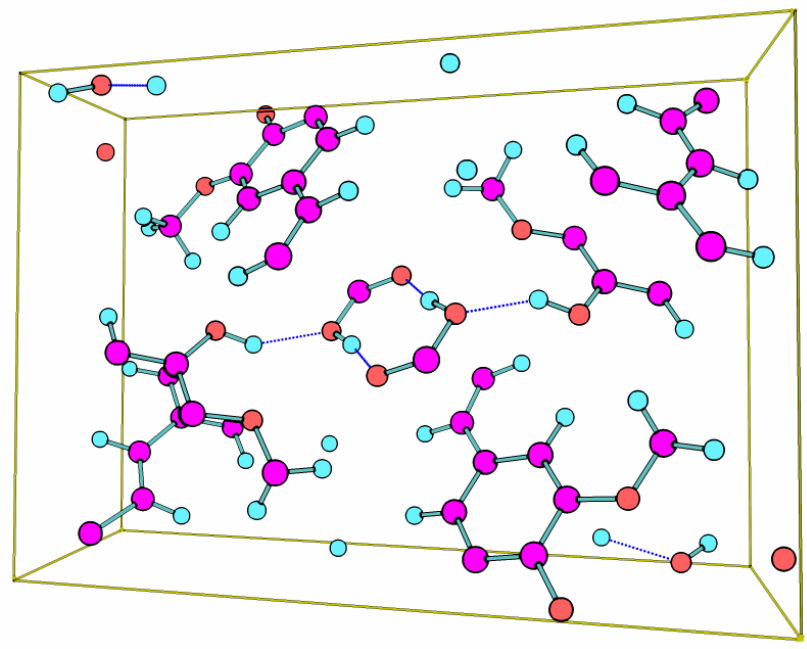

Fig. 6: Unit cell of FA.

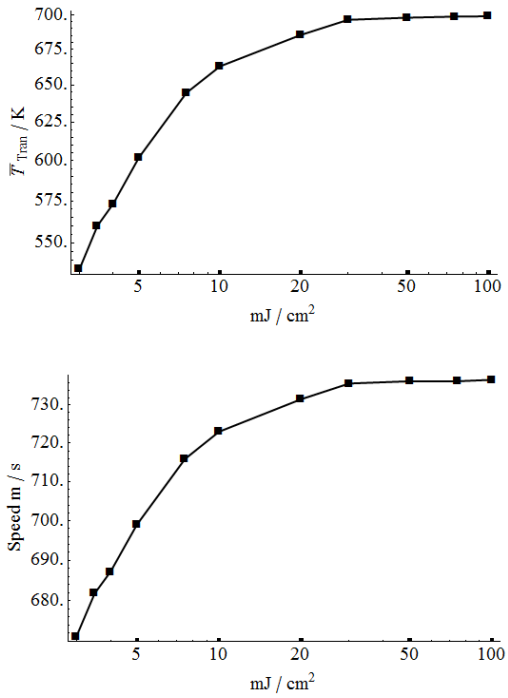

Fig. 7. $\overline{T}$ equal to maximum T reached by the molecules after transition from solid to gas phase. Speed calculated at 95% of a Boltzmann-Maxwell distribution with T equal to $\overline{T}$. Calculation made for DHB at χ_{DHB} = 1 in a fluence range from 3 to 100 mJ/cm^2.