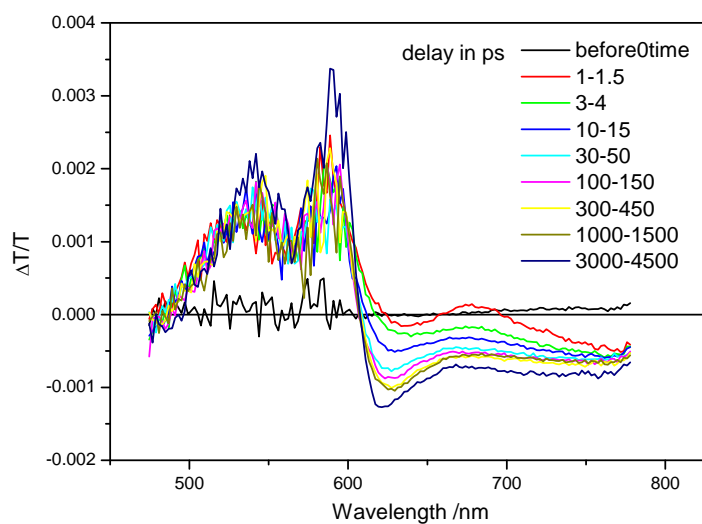
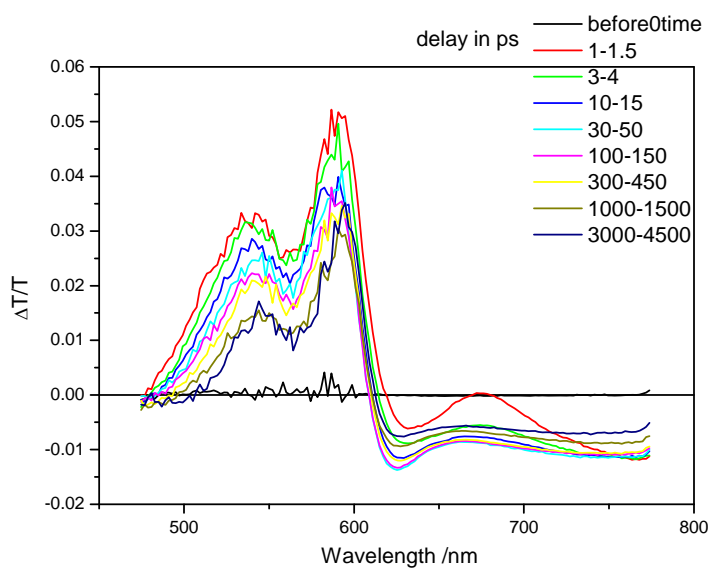


Supporting Information

0% 1.7 $\mu\text{J}/\text{cm}^2$

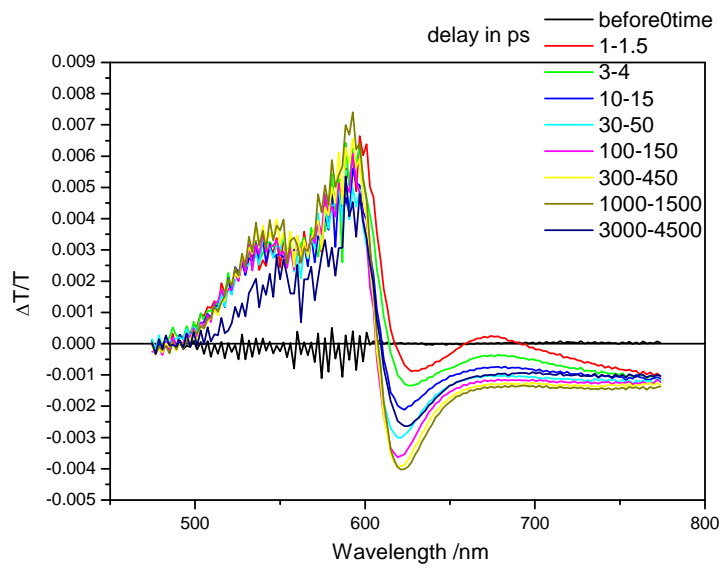


0% 19 $\mu\text{J}/\text{cm}^2$

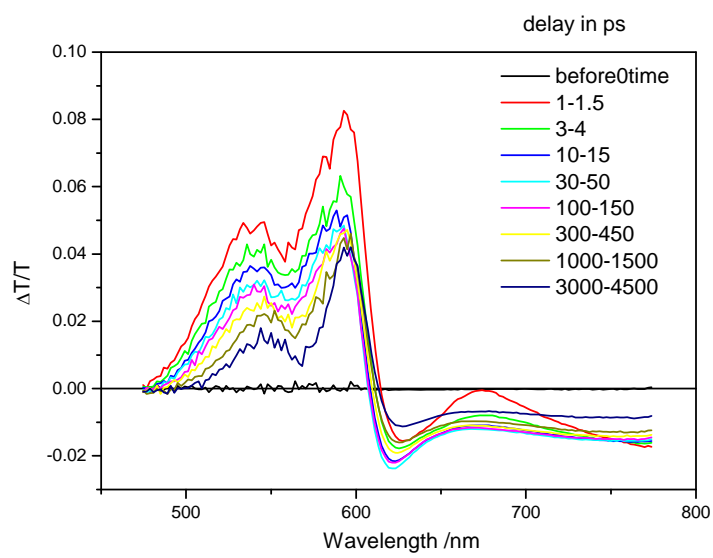


Note: additional decay on the sub-10 ps timescale is due to exciton charge annihilation before diffusion-limited charge generation at this high intensity. The additional recombination from 100 ps onwards is due to nongeminate free charge recombination already occurring for this high charge density.

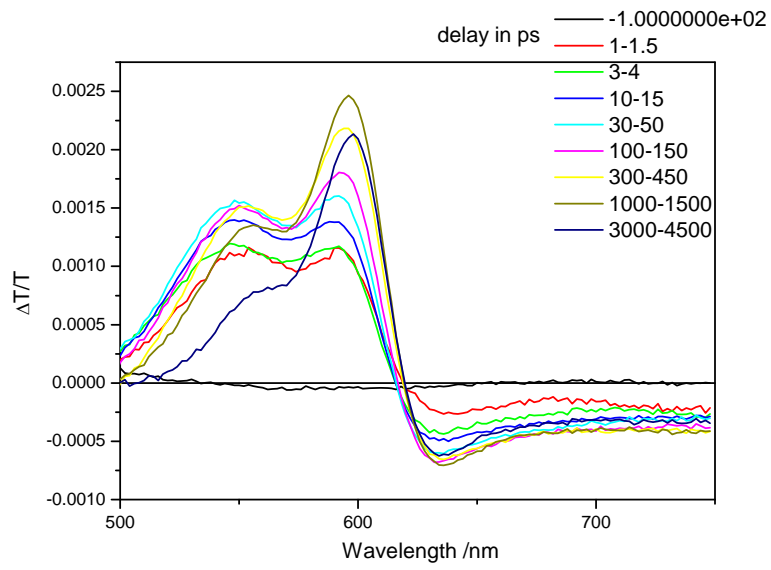
10% 1.7 $\mu\text{J}/\text{cm}^2$



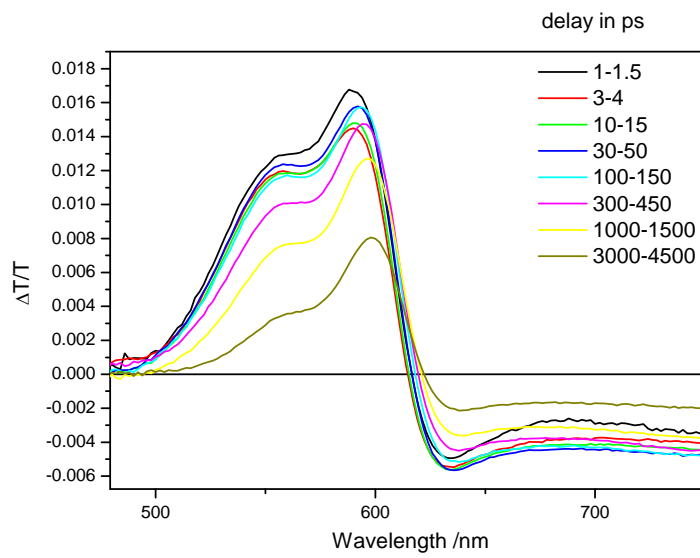
10% 19 $\mu\text{J}/\text{cm}^2$



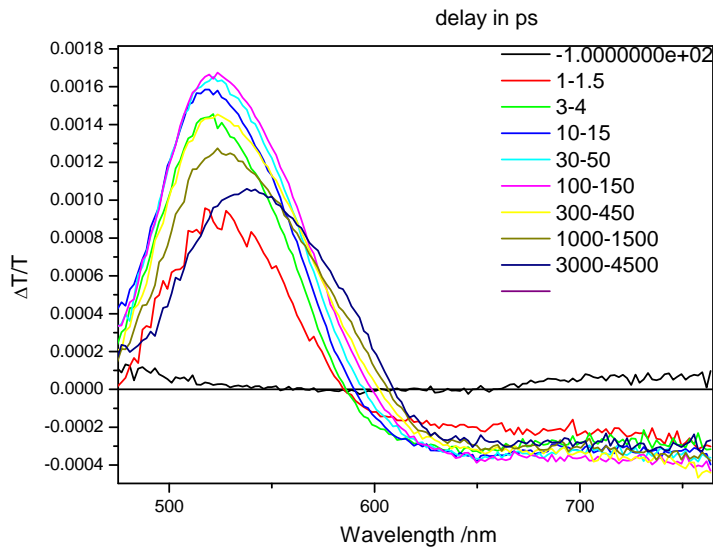
50% $2\mu\text{J}/\text{cm}^2$



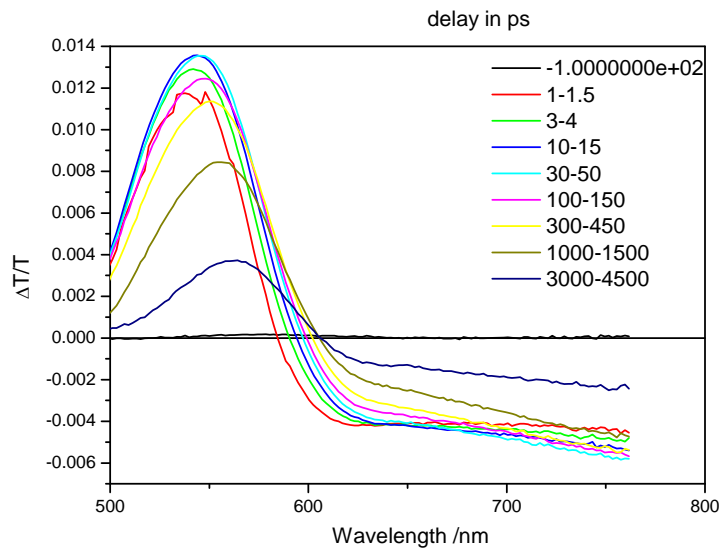
50 % $20\mu\text{J}/\text{cm}^2$



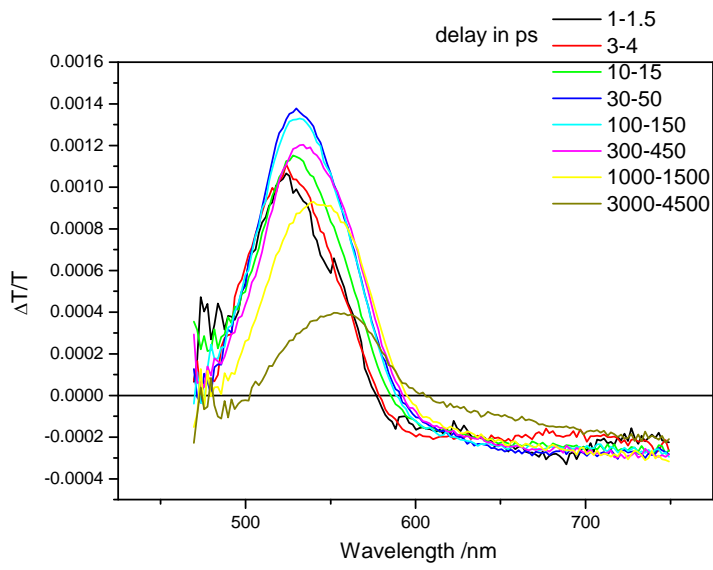
90% $2.3\mu\text{J}/\text{cm}^2$



90 % $19\mu\text{J}/\text{cm}^2$



100% 2 $\mu\text{J}/\text{cm}^2$



100% 20 $\mu\text{J}/\text{cm}^2$

