Electronic Supplementary Information

Ultrafast stimulated emission of nitrophenolates in organic and aqueous solutions

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Figure S1: TA traces at given wavelengths (black circles) with fit functions (red lines) (left) and contour plot (right) for o- (top), p- (center) and m-NP- (bottom) in water and NaOH. Shaded area: scattered light from the pump beam. TA for m-NP⁻ at 950 nm is measured with an other experimental system as a one wavelength experiment.



Figure S2: Contour plot of TA spectra for p- (left) and m-nitrophenol (right) and TA traces after 322 nm excitation. TA bands with lifetimes > 1 ns belong to ESA from triplet states. ISC occurs within few ps. Bottom: Individual traces at a probe wavelength of 400 nm.



Figure S3: TA spectra between 350 and 550 nm at given delay times and absorption spectra (Abs) for all isomers in both solvents. After 50 - 100 ps in all spectra no GSB is observable. Only the scattering of the pump pulse can be seen.