

Supporting Material.

Typical datasets of transient absorbance difference spectra of the HM202L RC recorded at 77 K after a 200 fs 798 nm excitation pulse, Figure S1 (detection between 735 and 865 nm), S2 (detection between 825 and 945 nm) and a 200 fs 880 nm excitation pulse, Figure S3 (detection between 725 and 840 nm) and S4 (detection between 815 and 945). The result of the global analysis fit is depicted with the dashed line. For 798 nm excitation only half of the spectra are depicted.

To follow the spectral evolution in time the spectra should be inspected bottom-up. The spectrum bottom left is the first spectrum and is recorded before time zero. The delay interval of the spectra as recorded during the experiment is indicated on the y-axis. These values are somewhat arbitrary and deviate approximately -400 fs (S1), 200 fs (S2), 600 fs (S3) and -140 fs (S4) from the values obtained after correction for the position of time-zero in the analysis later. Note that the temporal behaviour of these spectra at early times are influenced by group velocity dispersion (see Material and Method section).

The insets show the residuals of the fit for each spectrum. Because of lack of space, these residuals are not shown in Figure S3. Note that all the spectra are scaled to their extrema. This figure is delivered as a PDF format and can be easily enlarged by software programs such as acroread.

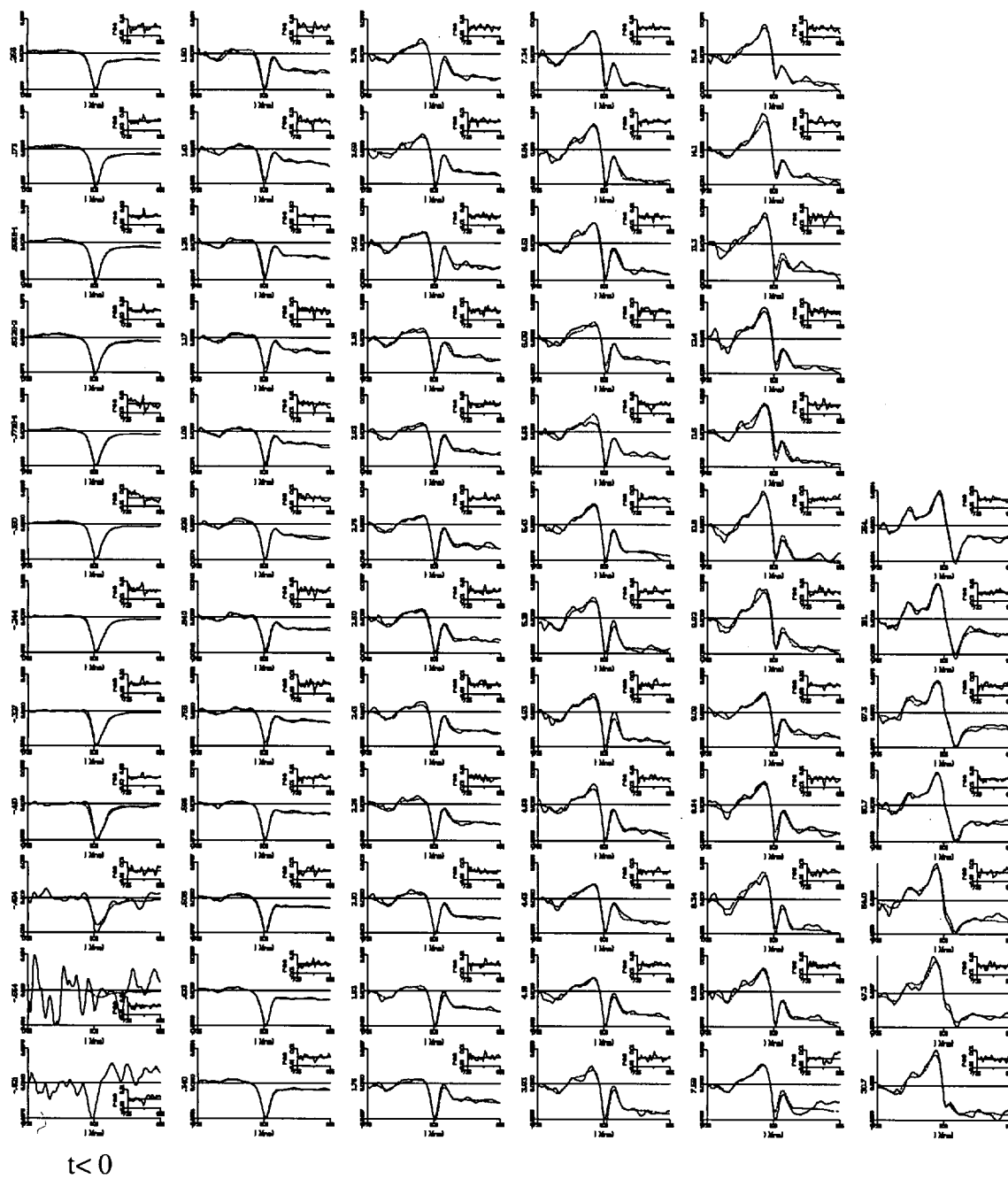


Figure S1

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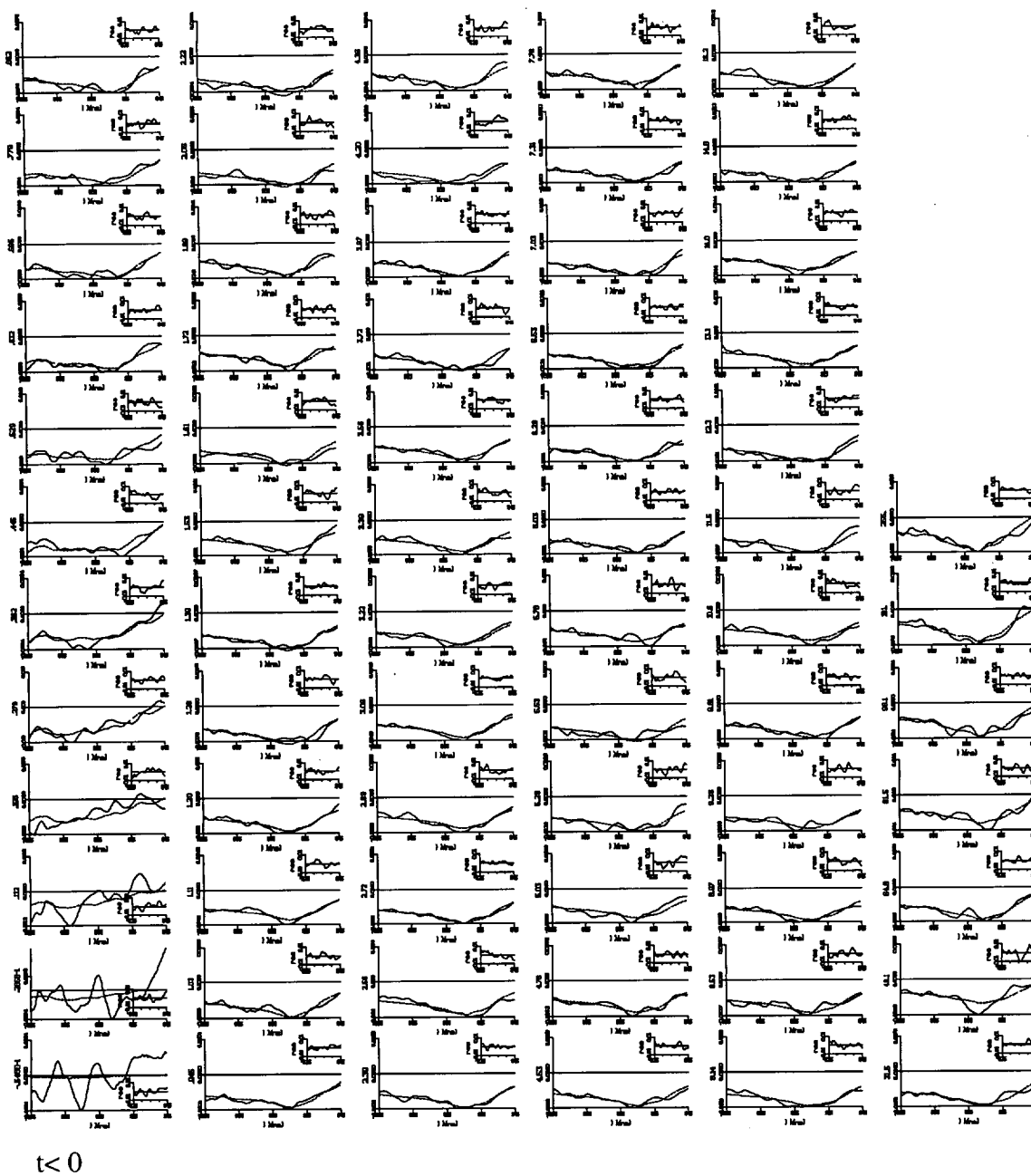


Figure S2.

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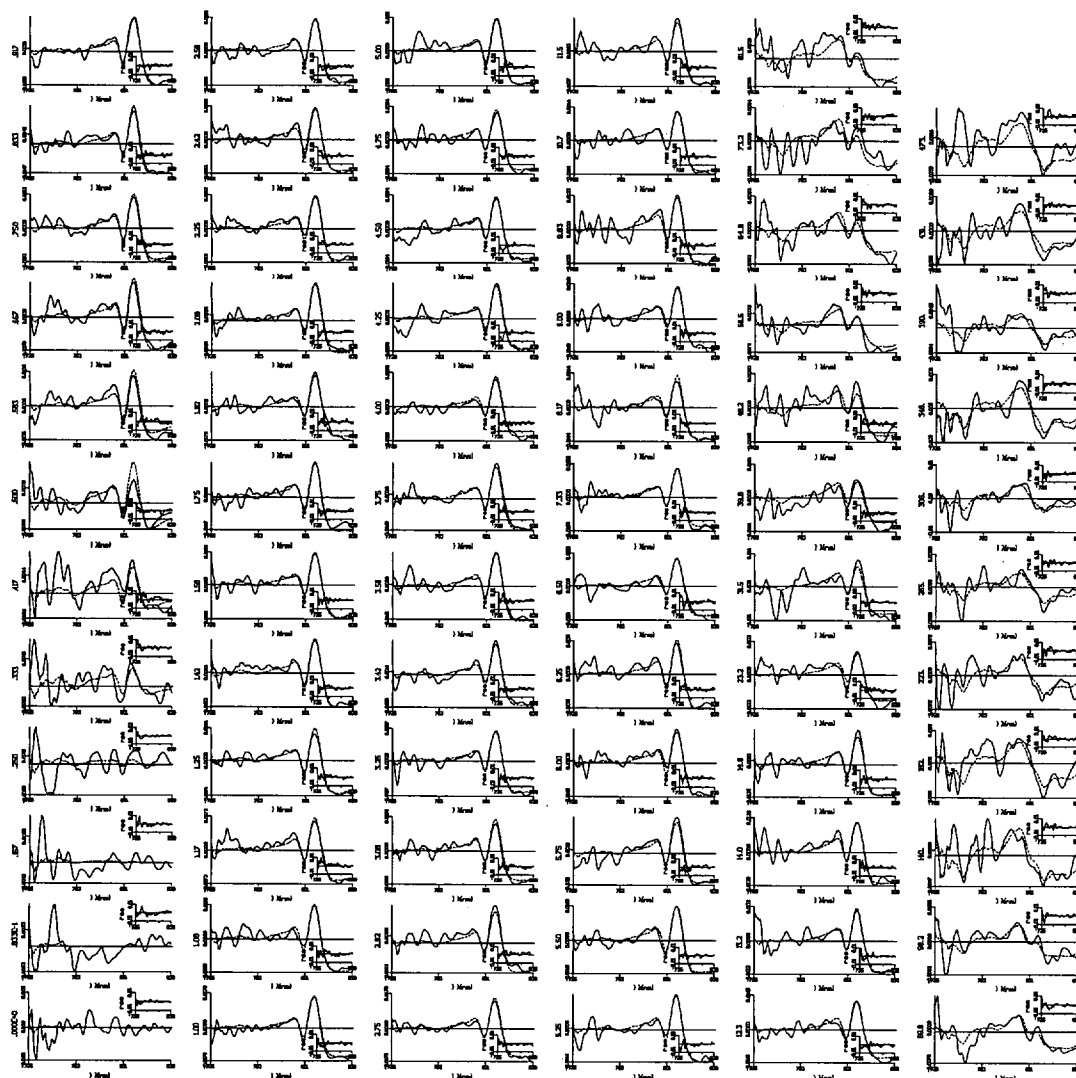


Figure S3.

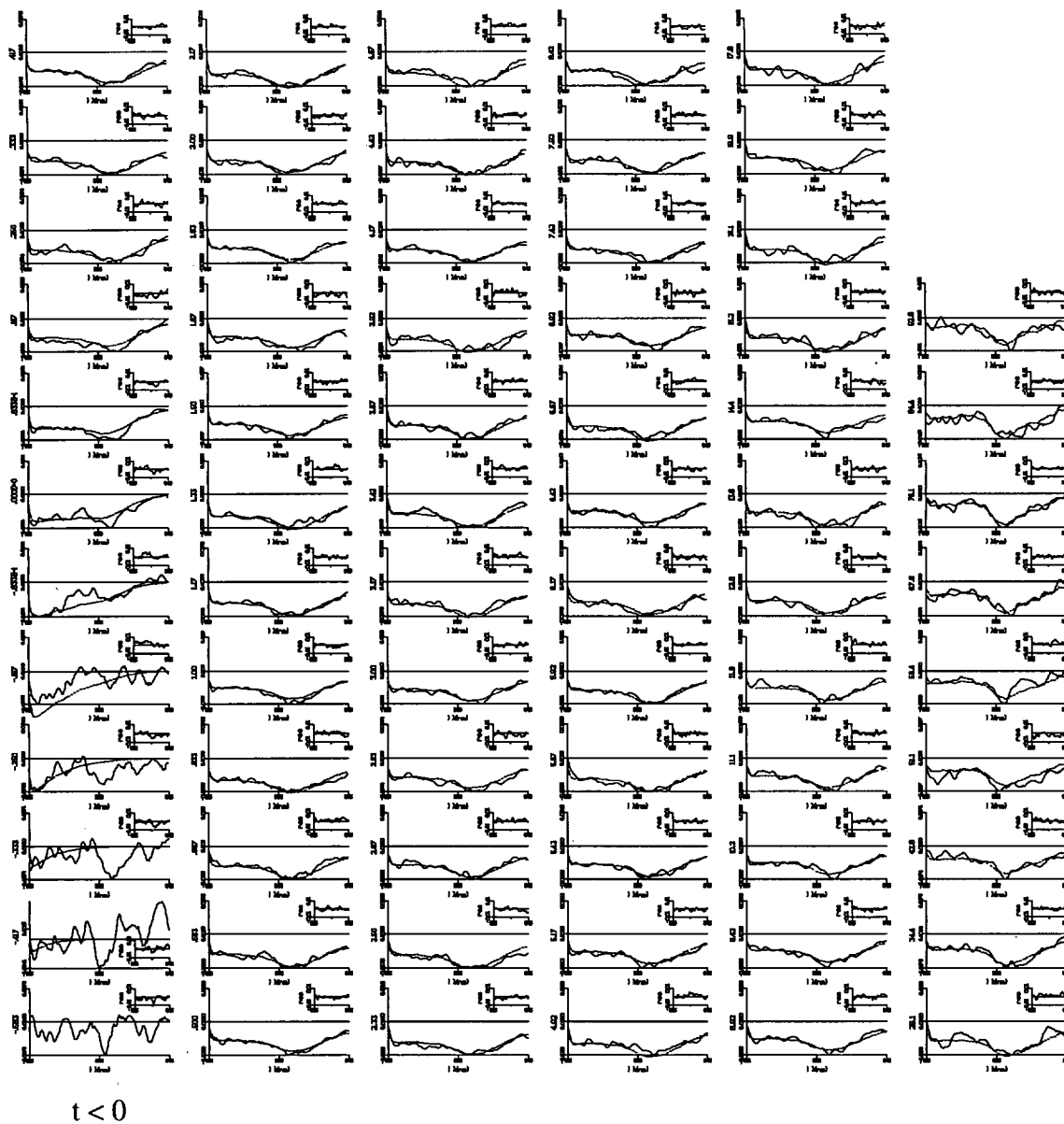


Figure S4.