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【101】 Decomposing ultrafast broadband transient spectra with the help of anisotropy

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Broadband transient absorption is a widely used tool in the domain of ultrafast spectroscopy. However, standard chemometric methods for decomposing spectra into components associated to the involved species like global and target analysis or singular value decomposition cannot be used when the spectral shapes of these components exhibit temporal changes, for instance due to internal conversion, vibrational cooling or solvation dynamics. We present a method which uses anisotropy measurements to perform such decompositions without the need of an a priori knowledge of the shape nor the kinetics of the involved spectral components.

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