

Supporting Information for:

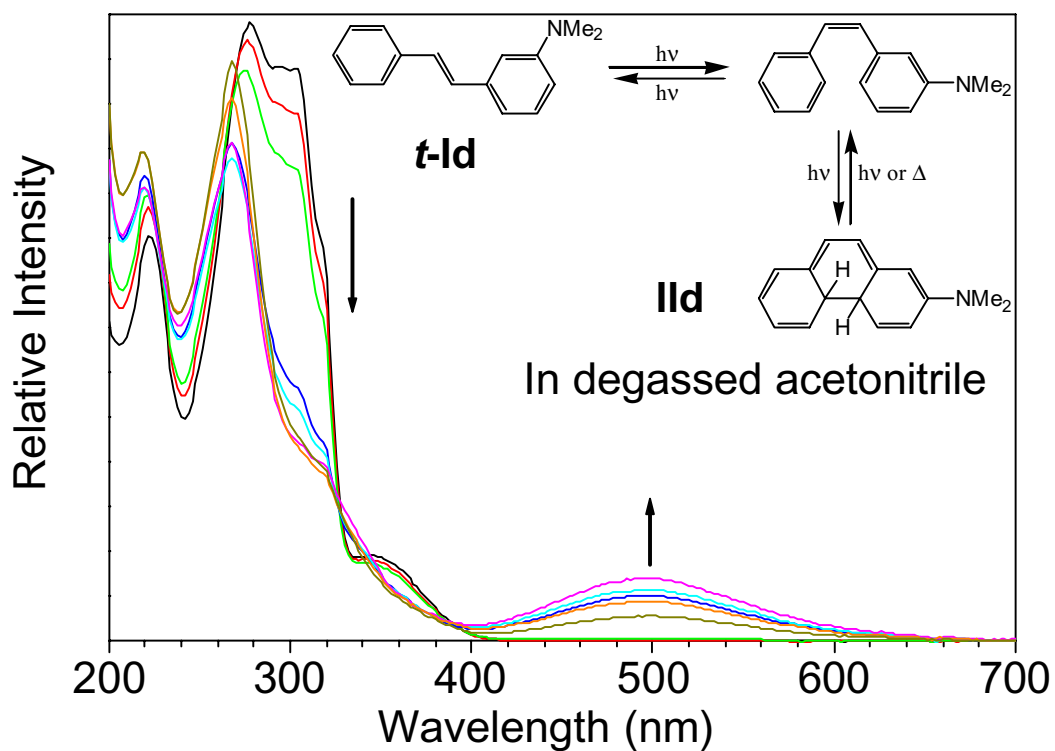
A push-pull 4a,4b-dihydrophenanthrene

Frederick D. Lewis,* Todd L. Kurth, and Rajdeep S. Kalgutkar[†]

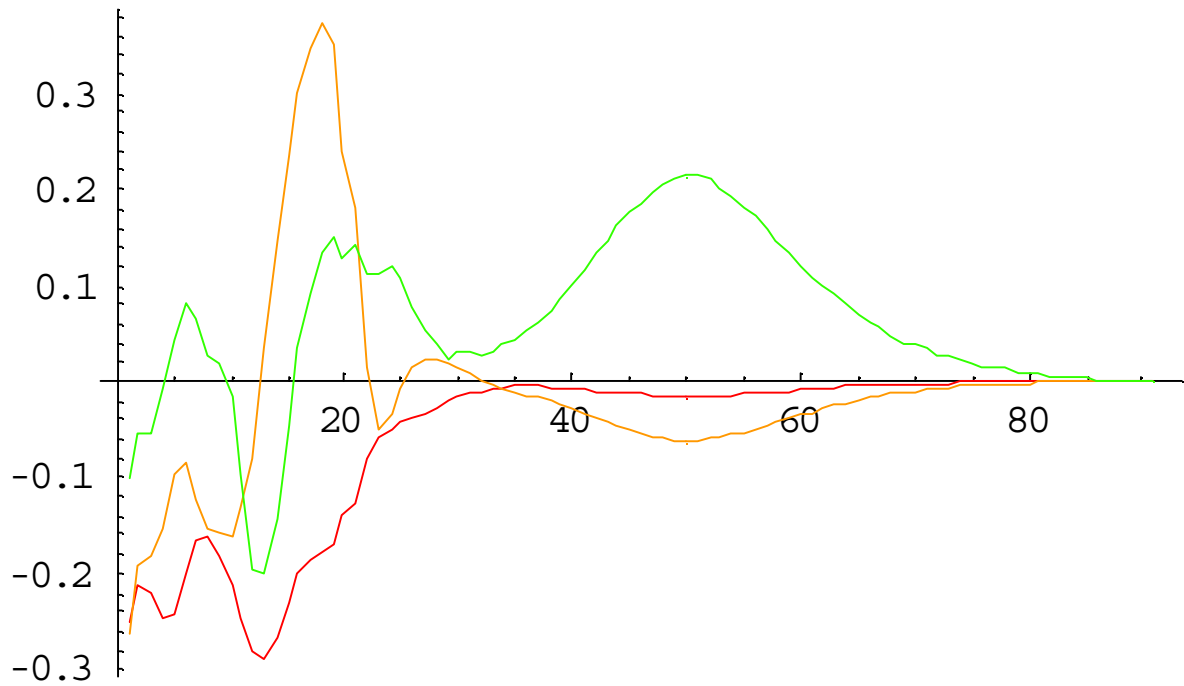
Department of Chemistry, Northwestern University, 2145 Sheridan Road,

Evanston, IL 60208 USA, email: lewis@chem.northwestern.edu

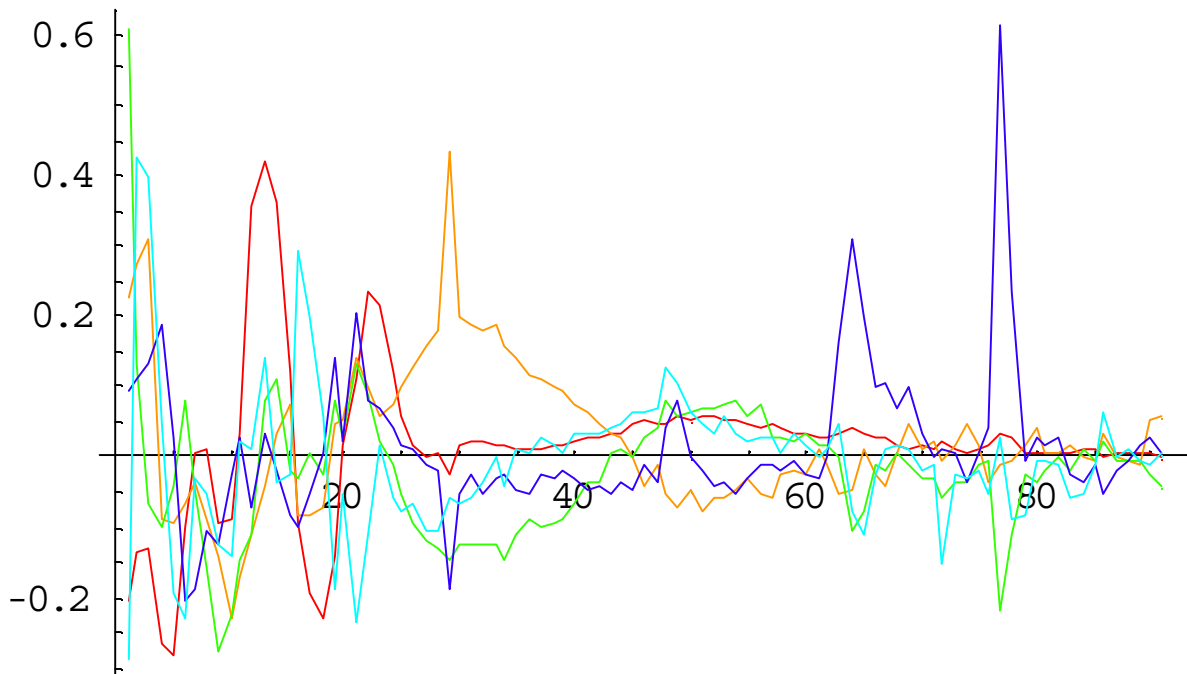
6 figures



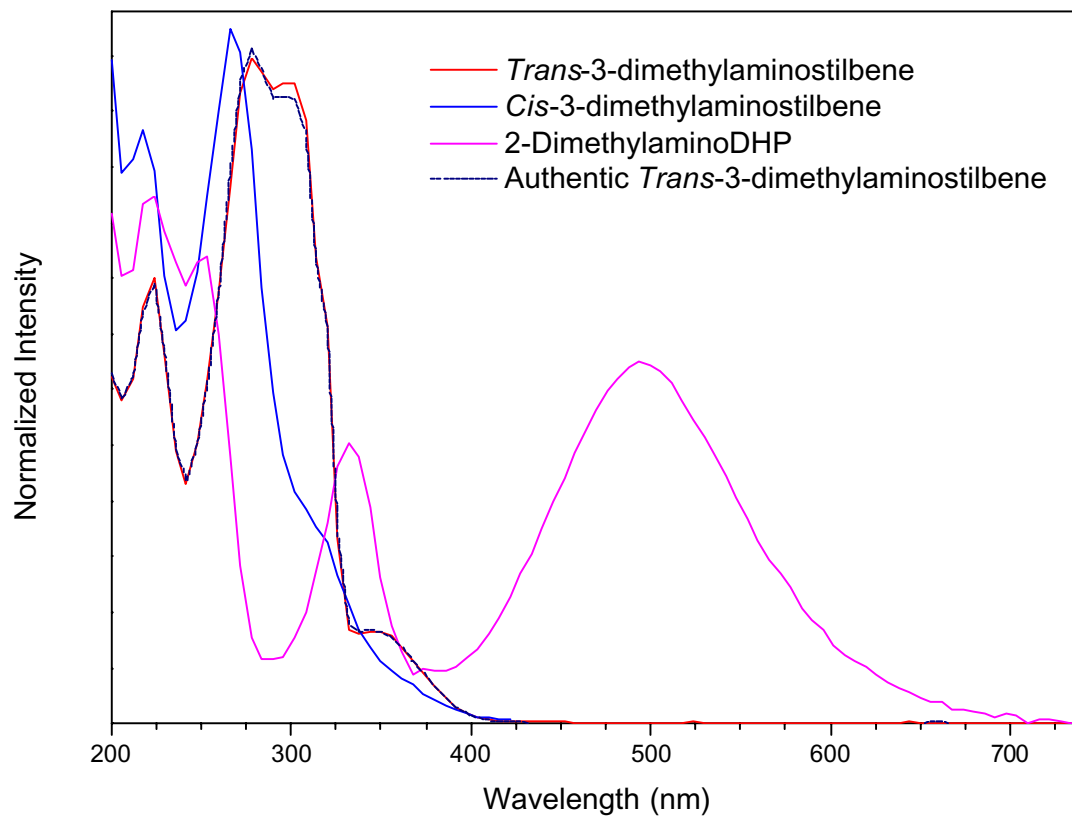
Supporting Figure 1: Data matrix for **Id**. Data was collected at arbitrary intervals of irradiation time and was not adjusted for parameters such as light intensity.



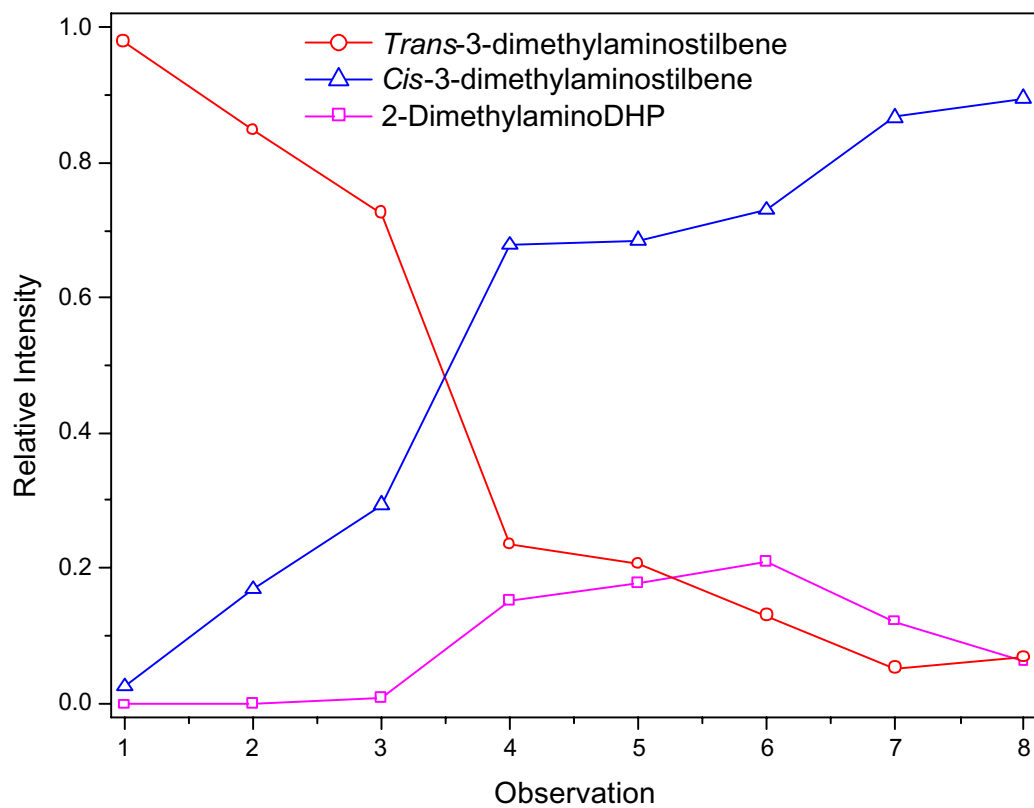
Supporting Figure 2a: Three main eigenvectors obtained from SVD of the data matrix. The abscissa is in the form of data points.



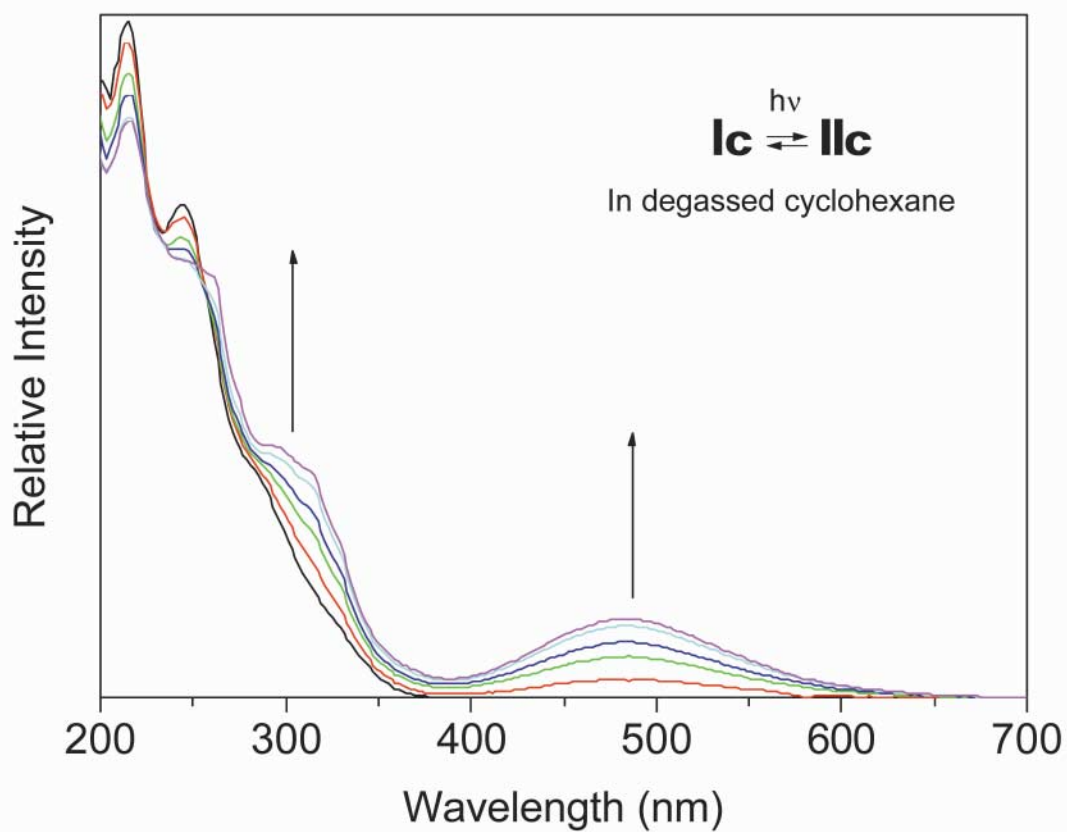
Supporting Figure 2b: Remaining eigenvectors obtained from SVD of the data matrix. The abscissa is in the form of data points.



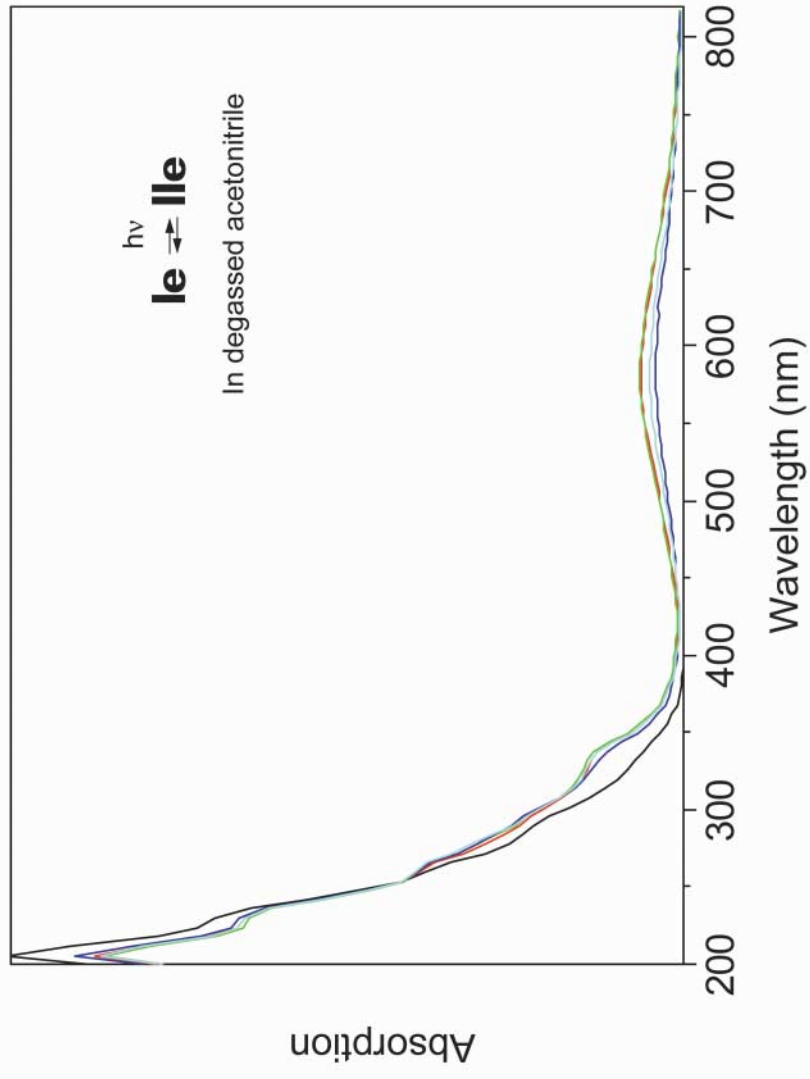
Supporting Figure 3: Deconvoluted data for **IIId**. The deconvoluted spectrum of *t*-**Id** is compared to that of an authentic spectrum obtained independently.



Supporting Figure 4: Concentration vectors for *t*-Id, *c*-Id and Id. The abscissa is not linear time of irradiation time and is not adjusted for other parameters such as light intensity.



Supporting Figure 5: Data matrix for **Ic**. Data was collected at arbitrary intervals of irradiation time and was not adjusted for parameters such as light intensity.



Supporting Figure 6: Data matrix for **le**. Data was collected at arbitrary intervals of irradiation time and was not adjusted for parameters such as light intensity.