

The pathway for proton transfer events in GFP

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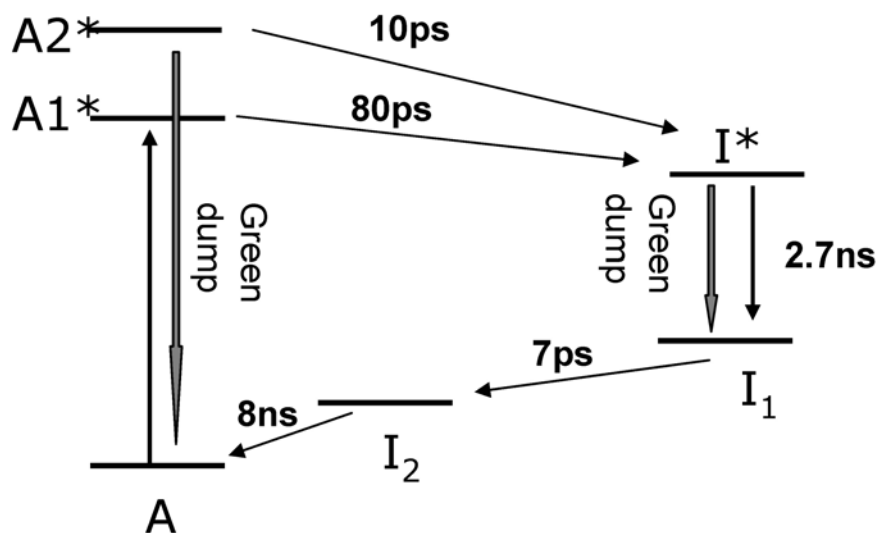
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Supplementary Scheme 1: Parallel Kinetic Scheme

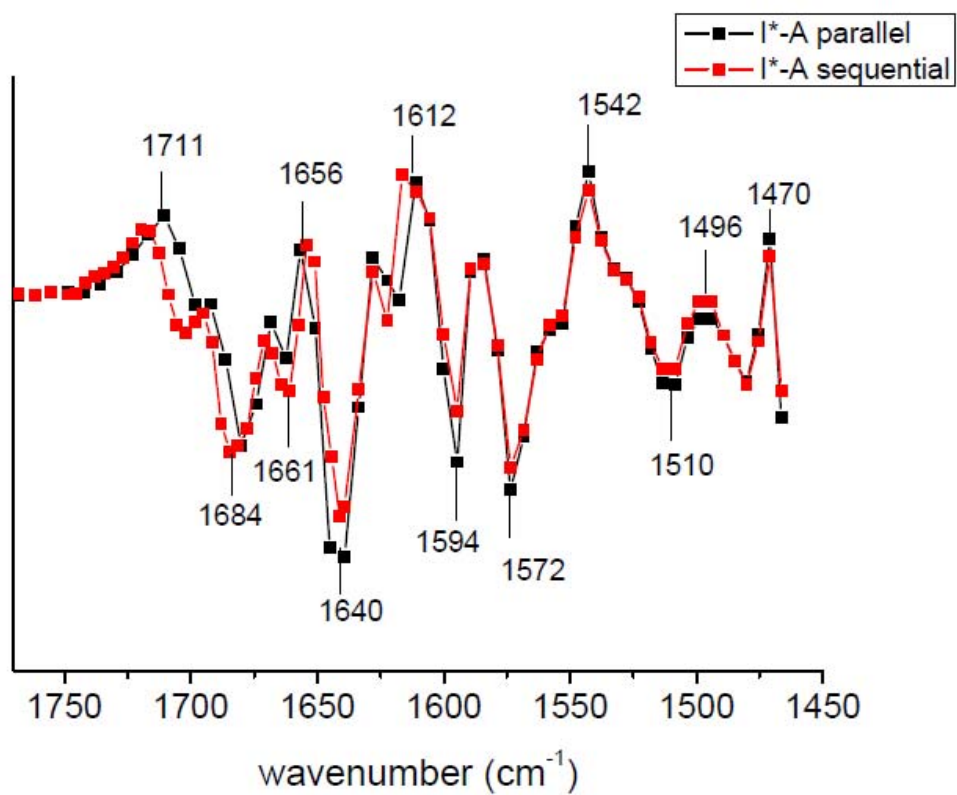
Supplementary Fig.1: Infrared SADS obtained with the parallel decay model

Supplementary Fig. 2: Visible SADS obtained with the parallel decay model



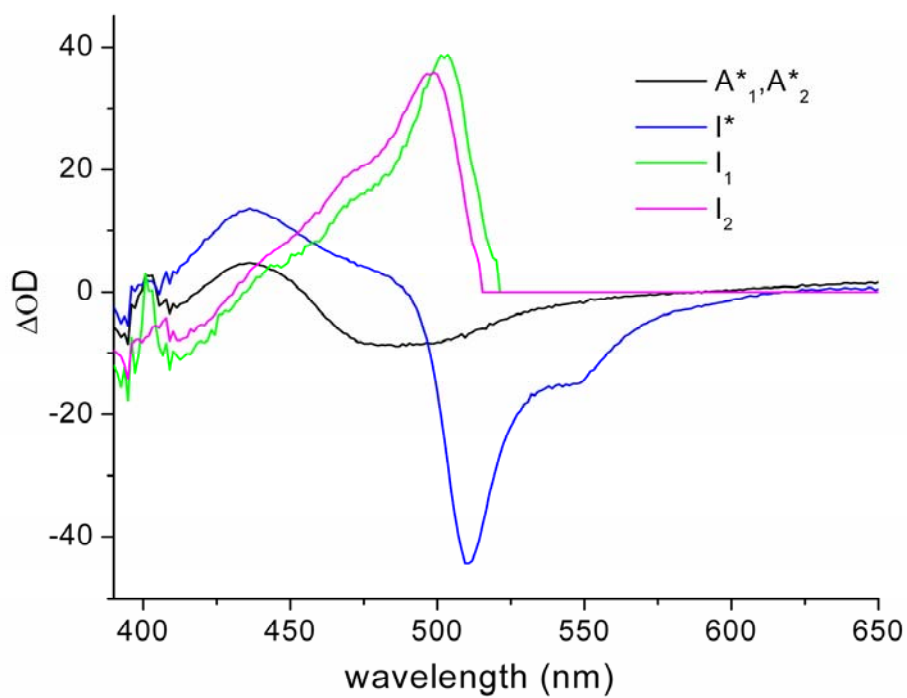
Supplementary Scheme 1: Parallel Kinetic Scheme

Kinetic scheme applied to the visible pump-dump-probe and transient infrared data imposing a parallel decay of two A* components (A*1 and A*2) into the I* compartment. Lifetimes derived from the simultaneous analysis of the infrared data set and the visible pump-dump-probe data (dump pulse applied after 100 ps) are reported.



Supplementary Figure 1: Infrared SADS obtained with the parallel decay model

Comparison between the SADS representing the I*-A state obtained by applying the kinetic scheme depicted as Supplementary Scheme 1 to the transient absorption data (black) in the infrared region and the corresponding EADS obtained by applying a sequential model to the data (red).



Supplementary figure 2: Visible SADS obtained with the parallel decay model

SADS obtained for visible pump-dump-probe data (dataset with dump delay set at 100 ps)

applying a target analysis according to the kinetic scheme depicted as Supplementary Scheme 1.