

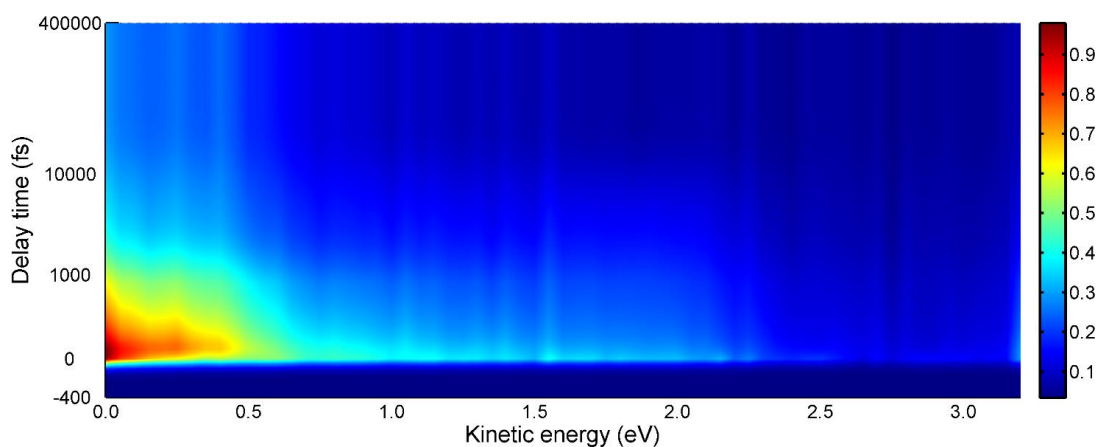
## Supporting Information for “Conformationally Controlled Ultrafast Intersystem Crossing in Bithiophene Systems”

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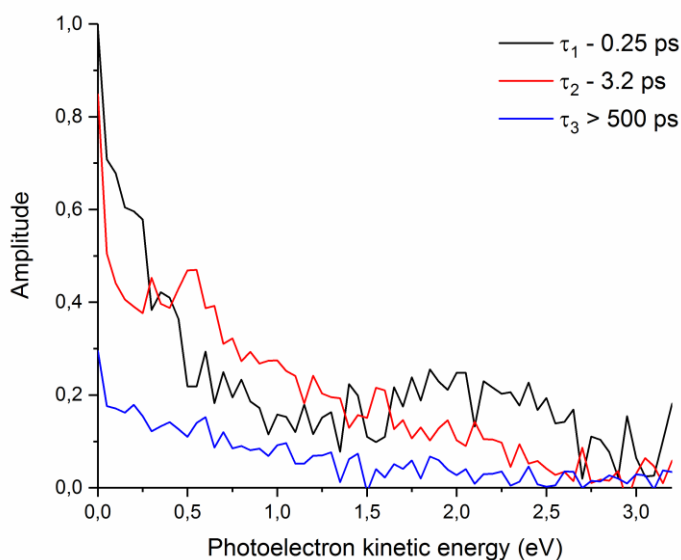
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Below are given the time-resolved photoelectron spectrum (TR-PES) for 2T plotted with a logarithmic time-scale and the decay associated spectrum (DAS) for the fit of B-2T.



Supporting Figure 1: The TR-PES of 2T with the time (y-axis) on a log-scale.



Supporting Figure 2: The DAS for B-2T, with the 0.25 ps component associated with fast intersystem crossing (ISC), the 3.2 ps component associated with ISC from the  $S_1$  minimum geometry and the >500 ps component associated with the lifetime of the final triplet state ( $T_1$ ).