

Supporting Information to: Needles in a Haystack: H-bonding in an Optogenetic Protein observed with Isotope labeling and 2D-IR Spectroscopy

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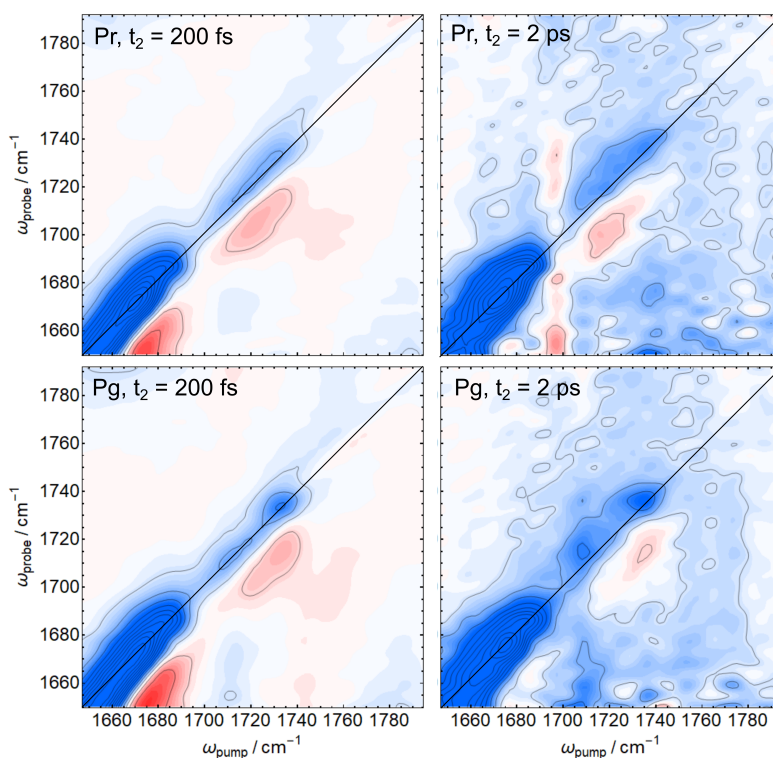


Figure 1: 2D-IR spectra of isotope-normal AmI-g2 in the Pr (top) and Pg (bottom) states at $t_2 = 200$ fs (left) and 2 ps (right).

2 Remaining Pr contribution in the Pg spectra

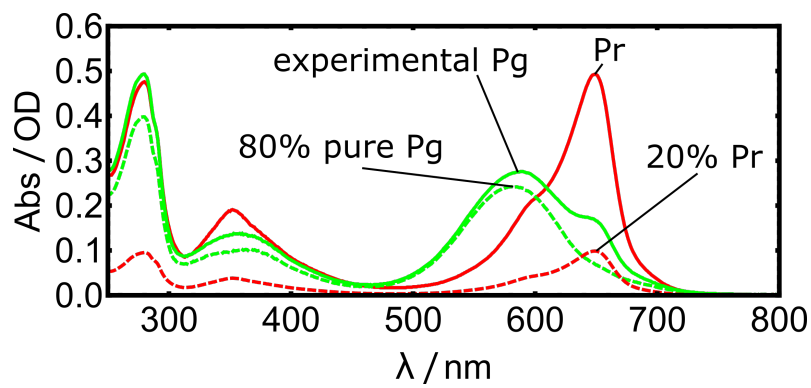


Figure 2: Decomposition of the experimental Pg spectrum indicates that the contribution of residual Pr is less than 20%.