

PICOSECOND ION-PAIR DYNAMICS OF CHARGE TRANSFER COMPLEXES

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Dynamics of Ion-Pair following picosecond excitation of Charge Transfer Complexes where biphenyl or biphenyl derivative is a electron donor and 1,2,4,5-tetracyanobenzen is a electron acceptor was investigated using picosecond(~25 ps FWIIM) transient absorption spectroscopy. Pronounced solvent effects were examined by taking into account inter-ring torsional motion of biphenyl (derivative) and its contribution to the Low frequency reorganization energy. Suggested is the influence of inter-ring torsional motion on the intermolecular electron transfer.