

MAR11-2010-001508

Abstract for an Invited Paper
for the MAR11 Meeting of
the American Physical Society

Ultrafast Nonlinear Optical Spectroscopy or where would we be without Shaul Mukamel?

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The development of ultrafast nonlinear optical spectroscopy owes much to the pioneering work of Shaul Mukamel in developing a unifying framework and language with which to understand and relate the content of different types of experiment. The culmination of this work, to date, is in the development of multidimensional optical spectroscopies. In this talk, I will describe recent work in my group on two dimensional electronic spectroscopy of photosynthetic light-harvesting complexes and, if time permits, single walled carbon nanotubes and molecular systems relaxing via conical intersections.