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Multidimensional Snapshots of Photosynthesis in Action

Tuesday, June 24, 2025 2:25 PM (30 minutes)

Coherent multidimensional spectroscopies (CMDS) have been applied to a wide range of condensed-phase systems, revealing the life-sustaining structural rearrangements of liquid water, ultrafast energy conversion in photosynthesis, protein folding pathways and many-body interactions in semiconductors. Both high temporal and spectral resolution can be achieved using Fourier transform CMDS. I will discuss recent advances in the field of CMDS, highlighting the development of high sensitivity approaches that are compatible with imaging. I will discuss our application of these approaches to gain insight into the ultrafast processes underlying photosynthesis.

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