



# MAX PLANCK LECTURE ON NON-EQUILIBRIUM QUANTUM PHENOMENA

## Shedding New Light on Photosynthetic Systems Using Multidimensional Spectroscopies

The primary events of photosynthesis occur on ultrafast timescales with high quantum efficiency. Elucidating the design principles of photosynthetic systems remains an outstanding challenge that has the potential to impact our design of artificial light-harvesting materials.

I will demonstrate how multidimensional spectroscopy can address open questions about photosynthetic systems and describe our recent progress in developing and using these tools to probe the mechanisms of ultrafast energy conversion in natural photosynthetic systems.

Jennifer P. Ogilvie



University of Michigan,  
Dep. of Physics, USA

Hosts:  
Andrea Cavalleri,  
Angel Rubio

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