

REAL-TIME OBSERVATION OF CONICAL INTERSECTIONS IN BIO-MOLECULES

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Conical intersections (CIs) are ubiquitous features in the photochemistry of molecules and can be considered as “doorways” through which a photoexcited wavepacket is funnelled to a lower-energy electronic state. I will show how ultrafast optical spectroscopy allows capturing CIs involved in the primary event of vision and photoprotection mechanisms in DNA. I will also discuss the potential of XFELs to visualize the electronic coherence generated during the wave packet passage through a CI.

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2:00 PM

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