

## SEMINAIRE ISMO

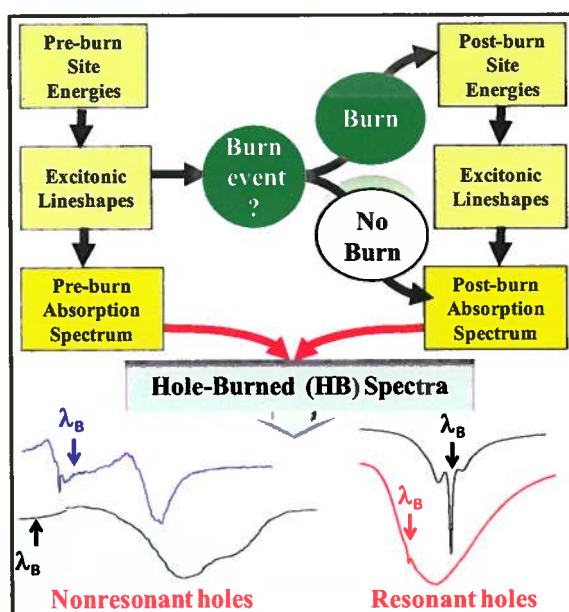
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### Excitation Energy Transfer and Charge Separation Processes in Photosynthetic Complexes

Basic aspects of oxygenic photosynthesis along with a brief discussion of persistent and transient hole-burned (HB) spectra (and the information they provide) obtained for various photosynthetic complexes will be presented. Examples include reaction centers (RCs) containing zinc-bacteriochlorophylls (Zn-BChls), Photosystem II (PSII) RCs from *Chlamydomonas reinhardtii*, and CP29 antenna protein complex of PSII. Regarding bacterial RCs, the shape of the spectral density and the strength of electron-phonon coupling are reexamined.

I will focus, however, on heterogeneity of isolated RCs from spinach and, in particular, *Chlamydomonas reinhardtii*, site-energies of active (electron acceptor) and inactive pheophytins, the nature of the primary electron donor(s), and the possibility of multiple charge-separation (CS) pathways in isolated PSII RCs. I will also discuss various optical spectra obtained for water soluble complex protein (WSCP) focusing on its excitonic structure.



**Jour  
inhabituel**

**Jeudi 13 juin 2013 à 11 h 00**

Bât. 210 – Amphi 1 (2<sup>ème</sup> étage)

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