



Advanced laser-based spectroscopies and their applications to complex biological systems

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Course description:

Fundamentals of photosynthesis and chemical carcinogenesis will be presented. Lectures will focus on laser-based (frequency domain) low temperature spectroscopies (hole-burning and fluorescence line narrowing), time-domain spectroscopies, and their application to complex biological systems (i.e. photosynthetic antenna complexes, reaction centers, and DNA adducts). The basic properties of electromagnetic radiation and its interaction with matter will be summarized. The density matrix approach, pure vs mixed states, populations and coherences, and modeling of various optical spectra will be discussed in more detail.

TERMINY WYKŁADÓW			
Data	Dzień tygodnia	Godzina	Sala
13 maj 2013	poniedziałek	15-18	LUWR - Chemia A
14 maj 2013	wtorek	14-17	19 Chemia B
15 maj 2013	środa	15-18	LUWR - Chemia A
16 maj 2013	czwartek	15-18	LUWR - Chemia A
17 maj 2013	piątek	14-17	3/09 - Centrum Nanotech.