



MANDAL, Debabrata

極端紫外光科学研究系基礎光化学研究部門 学振外国人特別研究員

Graduated from the Indian Association for the Cultivation of Science (2000). Ph.D. thesis: "Solvation dynamics and other ultrafast processes in organized media." Since November 2000, I have been a JSPS post-doctoral fellow in the group of Prof. T. Tahara at IMS.

My research interests are focussed mainly on the laser spectroscopic study of a variety of ultrafast photophysical processes (in the pico- and femtosecond time scales) in homogeneous solutions as well as in restricted environments like biomolecules, macromolecules, supramolecular assemblies and nanocages.



SKODJE, Rex T.

極端紫外光科学研究系極端紫外光研究部門 客員教授
(理論研究系分子基礎理論第二研究部門 中村グループ)

I graduated from Harvard University with a BS in physics in 1978. After a brief stay at the University of Texas where I studied high-energy physics, I moved to the University of Minnesota and received a Ph.D. in chemical physics in 1983. My graduate studies, supervised by Professor Donald Truhlar, focused on tunneling in chemical reactions. In 1983, I accepted a postdoctoral position with Professor William Reinhardt at JILA, and we worked on development of the adiabatic switching method for semiclassical quantization. In 1984, I assumed a position as Assistant Professor in the Chemistry Department at the University of Colorado in Boulder, which has been my permanent home institution ever since. In 1998, I became a Full Professor in the Chemistry Department. I also have affiliations with the Department of Applied Mathematics and the Center for Complexity at the University. I have held visiting positions at Argonne National Laboratory, Los Alamos National Laboratory, Autonoma University (Madrid), Academia Sinica (Taipei), Institute for Theoretical Physics (Santa Barbara), Institute for Theoretical Atomic and Molecular Physics (Harvard), and the Cornell Center for Applied Mathematics.

My research interests cover a range of topics in the area of molecular dynamics and chemical kinetics. I am interested in problems arising in chemical reaction dynamics, molecular spectroscopy, surface kinetics, thin films, and gas phase reaction kinetics. My group employs theoretical techniques including quantum scattering theory, wave packet dynamics, semiclassical theory, nonlinear dynamics, Monte Carlo simulations, and classical trajectory simulation. I am especially eager to interact with experimental groups to produce physical understanding of laboratory results.





HUDECEK, Jiri

分子構造研究系分子動力学研究部門 文部科学省招聘外国人研究員

プラハのカレル大学化学科で物理化学を専攻。卒業後、兵役、スロバキアの放射線及び応用原子力研究所の研究員を経てカレル大学の物理化学の助手となった。1年間務めた後、同大学の生化学科の助手に移った。そこで助教授になり現在に到る。これまでチトクロムP450というヘム酵素の構造と機能を分光学的に調べてきた。本研究所では、ヘム部分はP450と似ているが機能の異なる、NO合成酵素の共鳴ラマン分光の研究をする。