エクストリームフォトニクスセミナー

Extreme Photonics Seminar

No. 2

Language: English

Date: May 13(Fri), 2011, 15:00 〜 16:00

Location: Cooperation Center, 5F Meeting Room, W524
(研究交流棟5階会議室 W524)

Title: Laser-induced molecular dynamics with a classical model

Speaker: **Dr. Erik Lotstedt**
(Department of Chemistry, School of Science, The University of Tokyo)

Classical models of laser-atom interaction has been widely used to understand the laser-driven electron dynamics, and as a computationally cheap alternative to solving the time-dependent Schroedinger equation. However, it has not been known how to treat the interaction of molecules with intense laser light in a classical way. In this talk, I will demonstrate how to model a classical molecule with a suitably modified Hamiltonian. Application of the model to the D3+ molecule exposed to a few-cycle, intense laser pulse reproduces qualitatively experimentally measured spectra, and yields insight in the laser-driven intramolecular motion.

連絡先： エクストリームフォトニクス研究グループ 緑川(8532)
Contact: K. Midorikawa (8532), Extreme Photonics Research Group