

エクストリームフォトンクスセミナー
Extreme Photonics Seminar

No. 9

Language: English

Date : Dec. 5(Wed), 2012, 13:30 ~ 14:30
Location : Cooperation Center, 5F Meeting Room, W524
(研究交流棟 5 階会議室 W524)

Title : Control of attosecond auto-ionization dynamics
of Fano resonances by intense coupling
femtosecond lasers

Speaker : Prof. Chii-Dong Lin
(University Distinguished Professor, Kansas State Univ.)

Fano resonances are common phenomena in many fields of science. For atomic and molecular systems, they are known to have lifetimes in the order of a few femtoseconds or longer. With the availability of attosecond light pulses recently, it is possible to observe and control the autoionization dynamics of a Fano resonance. In this talk I will discuss how to characterize the time evolution of a Fano resonance, and how to control its decay with intense infrared lasers. The latter can be observed with present technology by measuring photoelectron spectra or by transient absorption spectroscopy.