

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

No. 6

Language: English

**Date:** Sept. 8th(Wed), 2010, 11:00 ~ 12:00

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

**Title:** Quantitative Theory of high-order harmonic generation of molecules

**Speaker:** Prof. Chii-Dong Lin (Kansas State Univ.)

Based on the recently developed quantitative rescattering theory [1], accurate high-order harmonic generation (HHG) spectra of single atoms and molecules can be accurately and conveniently calculated. We have now included the macroscopic propagation effect such that the calculated HHG spectra can be directly compared to experimental measurements. Examples from recent HHG measurements for Ar, N<sub>2</sub> and CO<sub>2</sub> molecules using IR and mid-IR lasers will be presented.

[1] C. D. Lin et al, Topical Review, J. Phys. B43, 122001 (2010).