

# RIKEN International Symposium on Attosecond Science

Organized by RIKEN Extreme Photonics Research Group



Co-organizer: Advanced Photon Science Alliance



Co-organizer: Ultrafast Optoelectronics  
Technical Committee (Term Limited),  
IEICE Electronics Society

Endorsed by Japan Society of Applied Physics  
Laser Society of Japan

Keynote speaker : Prof. Paul B. Corkum

Joint University of Ottawa  
National Research Council Laboratory  
for Attosecond Science

**Date: Friday, April 3rd, 2009**

**Time: 9:50~17:50**

**Venue: Suzuki Umetaro Hall, RIKEN**

2-1 Hirosawa, Wako-shi, Saitama 351-0198, Japan

Free Discussion: 18:00 ~ @ Hirosawa Club

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Date : April 3rd (Fri), 2009

Place : Suzuki Umetaro Hall, Wako Institute, RIKEN

<http://www.riken.jp/r-world/riken/campus/wako/index.html>

- 9:50 Opening Remark (Director K. Tamao)
- 10:00 S. Adachi (Univ. Tokyo, Japan)  
“CEP control of few-cycle multi-mJ OPCPA system for attosecond harmonics generation”
- 10:20 N. Ishii (Univ. Tokyo, Japan)  
“High-harmonic generation in the water window using a CEP-locked few-cycle OPCPA system”
- 10:40 K. Ishikawa (RIKEN)  
“Wavelength dependence of the dramatically enhanced high-order harmonic generation”
- 11:00 Coffee Break
- 11:15 Ya Cheng (SIOM, China)  
“New phenomena in high field laser physics with intense mid-infrared laser pulses”
- 11:45 T. Sekikawa (Hokkaido Univ. Japan)  
“Two-photon resonant excitation of a doubly excited state in He atoms by high-harmonic pulses”
- 12:15 T. Morishita (Univ. EC, Japan)  
“Accurate retrieval of structural information from laser-induced photoelectron and high-order harmonic spectra by intense laser pulses”
- 12:45 Lunch
- 14:00 P. Corkum (NRC, Canada)  
**Keynote** “Molecules and Attosecond Science”
- 14:50 Z. Chang (Kansas Univ. USA)  
“FROG-CRAB measurement of single isolated attosecond pulses generated with double optical gating”
- 15:20 C. H. Nam (KAIST, Korea)  
“Attosecond chirp compensation by material dispersion for transform-limited attosecond pulse generation”
- 15:50 Break
- 16:10 Y. Nabekawa (RIKEN, Japan)  
“Nonlinear interaction of attosecond pulses”
- 16:40 K. Yamanouchi (Univ. Tokyo)  
“Ultrafast hydrogen migration in hydrocarbon molecules induced by intense laser fields”
- 17:10 H. Sakai (Univ. Tokyo, Japan)  
“Recent progress in the control of molecular orientation”
- 17:40 Closing Remark (K. Midorikawa)
- 18:00 Free Discussion (*Reception*)