

# *International Symposium on Analysis and Control of Molecular Quantum Processes*

12 July 2005,  
TAGEN Scientific Measurements Bldg (N-Bldg) Seminar Room,  
TAGEN, Tohoku University, Sendai 980-8577, Japan  
- hosted by TAGEN, Tohoku University

09:20-09:25 Opening (K. Ueda)

(Chair: K. Ueda)

09:25-10:00 Dr. Y. Yamakita (Dept. Chem., Tohoku University)  
*Controlling the Motion of Rydberg Molecules in Inhomogeneous Electric Field*

10:00-10:45 Prof. Y. Fujimura (Dept. Chem., Tohoku University)  
*Quantum Control of Molecular Chirality*

-Coffee break-

(Chair: Y. Fujimura)

11:00-11:45 Prof. K. Ohno (Dept. Chem., Tohoku University)  
*Quantum Chemistry Calculations on Site Specific Reactions*

11:45-12:30 Prof. V. Carravetta (TAGEN, Tohoku University / CNRS, Italy)  
*Theory and Modelling of Resonant Auger Decay in Molecules: H<sub>2</sub>O, NO<sub>2</sub>, O<sub>2</sub>*

-Lunch break-

(Chair: K. Ohno)

14:00-14:45 Prof. M. Ehara (Kyoto University)  
*Theoretical Fine Spectroscopy: Excited-state Geometries and Vibrational Spectra*

14:45-15:40 Prof. L.S. Cederbaum (Heidelberg University, Germany)  
*Intermolecular Decay and Ultrafast Energy Transfer in Clusters and Weakly Bound Systems*

-Coffee break-

(Chair: Y. Udagawa)

16:00-16:35 Prof. M. Takahashi (TAGEN, Tohoku University)  
*(e-2e) Experiments with Spherically-averaged and Fixed-in-space H<sub>2</sub> Molecules*

17:35-17:10 Dr. G. Prümper (TAGEN, Tohoku University)  
*Intramolecular Electron Scattering and Charge Transfer in Ultrafast Dissociation of Core-excited Molecules*

17:10-17:45 Dr. X.J. Liu (TAGEN, Tohoku University)  
*Molecular-frame Core-level Photoelectron Angular Distribution*

18:00-20:00 Reception and Banquet