

Program of UMD2019

22 min Presentation + 3 min Discussion = 25 min

*30 min Presentation + 5 min Discussion = 35 min

July 5 (2019)

12:50– Opening

(Session I) 13:00–14:25

* H. Bernhard Schlegel (Wayne State University, USA)

Computational simulation of electron dynamics in intense laser fields

Kenichi L. Ishikawa (The University of Tokyo, Japan)

Simulations of atoms, molecules, clusters, and solids in intense laser fields

Hideki Ohmura (AIST, Japan)

Sub-cycle attosecond control of molecular ionization by using Fourier-synthesized laser fields

(Break) 14:25–14:45

(Session II) 14:45–16:20

Hiroshi Akagi (QST, Japan)

Laser induced deformation of a molecular orbital in ethanol on a suboptical cycle time scale

* Akiyoshi Hishikawa (Nagoya University, Japan)

Coherent reaction control of symmetric molecules using two-color intense laser fields

* Kenji Ohmori (IMS, Japan)

Ultrafast quantum many-body dynamics in an ultracold BEC and Mott insulator of ^{87}Rb atoms

Group Photography 16:20 – 16:25 inside the symposium room

(Break) 16:25–16:40

(Session III) 16:40–18:15

* Chao Xu¹, Feng Long Gu¹ and OChaoyuan Zhu²

(¹South China Normal University, China, ²National Chiao-Tung University, Taiwan)

Photo-induced Wolff rearrangement reaction of 5-diazo Meldrum's acid revealed by on-the-fly nonadiabatic dynamic simulation

* Tetsuya Taketsugu (Hokkaido University, Japan)

Reaction pathways and dynamics of the excited-state branching reaction of stilbene derivatives

Michitoshi Hayashi (National Taiwan University, Taiwan)

Molecular individuality in molecular crystals: First principle study of Terahertz vibrational spectroscopy

19:00– Banquet

July 6 (2019)

(Session IV) 9:40–10:55

Hironobu Fukuzawa (Tohoku University, Japan)

X-ray induced ultrafast dynamics in molecules using XFEL

OReika Kanya and Kaoru Yamanouchi (The University of Tokyo, Japan)

Laser-assisted streaking of electron diffraction patterns for ultrafast molecular imaging

OMasakazu Yamazaki and Masahiko Takahashi (Tohoku University, Japan)

Towards filming a movie of atomic motions during a chemical reaction

(Break) 10:55–11:10

(Session V) 11:10–12:25

Shiro Koseki (Osaka Prefecture University, Japan)

Theoretical calculations of the emission spectra and radiationless transition rate constants in OLED

OTsuyoshi Kato and Kaoru Yamanouchi (The University of Tokyo, Japan)

Effective-potential description of time-dependent many-electron wave functions

OLe Yu and Masahiko Takahashi (Tohoku University, Japan)

Ab initio nonadiabatic molecular dynamics study on the photodissociation of acetone at 195 nm

(Lunch) 12:25–13:15

(Session VI) 13:15–14:40

Heng-Liang Wu (National Taiwan University, Taiwan)

Controlling electrochemical lithium deposition and sulfur reduction mechanism through liquid electrolytes

* Deepak Mathur (Manipal Academy of Higher Education, India)

Exploring the dynamics of DNA damage by low-energy and thermal-energy particles

Hirohiko Kono (Tohoku University, Japan)

Field-induced ultrafast dynamics of molecules: Development from fundamentals to applications

14:45– closing