

物理化学
—化学・生物系の超高速分光とイメージング—
平成 25 年 9 月 28 日 (土) ~30 日 (月) F 会場

セッションオーガナイザー：上田 潔(東北大多元研)、加藤 隆二(日大工)、森田 明弘(東北大院理)、河野 裕彦(東北大院理)

28 日

9:00 - 12:00

Collaboration of theory and experiment

座長：森田 明弘(東北大院理)

28F1 福村 裕史(東北大理)

“Laser-induced Physical and Chemical Changes in Binary Liquid Mixtures: How Long Should We Wait Until the System Entropy is Maximized?”

28F2 田原 太平(理研)

“Structure and Dynamics of Water Interfaces Revealed by Heterodyne-Detected Sum-Frequency Generation”

28F3 林 倫年(台大凝態中心)

“A Molecular Theory of Sum Frequency Generation and its Application”

28F4 加藤 隆二(日大工)

“Primary Processes in Dye-sensitized Solar Cells Studied by Transient Laser Spectroscopy”

28F5 太田 信廣(北大電子研)

“Electric Field Effects on Photoinduced Dynamics and Function of Organic Molecular Systems”

28F6 Jörn Manz (Free University Berlin, Germany)

“Panta Rhei – Electronic and Nuclear Quantum Fluxes in Molecules”

13:00-15:30

X-ray chemistry and biology – dedicated to Ada Yonath –

座長：上田 潔(東北大多元研)

28F7 足立 伸一(KEK)

“Capturing Atomic Structural Dynamics by Picosecond Time-resolved X-ray Diffraction, Scattering, and Spectroscopy”

28F8 Simone Techert (DESY/ University of Göttingen/ Max-Planck Institute for Biophysical Chemistry, Germany)

“Structural Dynamics Investigations in Chemistry with High Brilliance Pulsed X-ray Sources”

28F9 Junko Yano (Lawrence Berkeley National Laboratory, USA)

“Simultaneous Femtosecond X-ray Spectroscopy and Diffraction of Photosystem II”

28F10 岩田 想(京大院医)

“Recent Progress in Structural Biology at SACLA”

28F11 Ilme Schlichting (Max-Planck Institute for Medical Research, Germany)
"XFELs - Emerging Opportunities in Structural Biology"

29 日 (日)

8:50-10:50

Ultrafast physical chemistry - dedicated to Y.T. Lee -

座長：河野 裕彦(東北大院理)

29F1 Sheng H. Lin (National Chiao Tung University, Taiwan)

"Theory of Intramolecular Vibrational Relaxation"

29F2 Chi-Kung Kenny Ni (Institute of Atomic and Molecular Sciences, Taiwan)

"Recent Progress in the Investigation of MALDI Mechanisms"

29F3 鈴木 俊法(京大院理、理研)

"Ultrafast Photoelectron Spectroscopy of Electronic Dynamics in Aqueous Solution"

29F4 Marc Vrakking (Max-Born Institute, Germany)

"Attosecond Time-resolved Molecular Electron Dynamics"

10:50-11:00

山田耕一 (産業技術総合研究所)

"Professor Yonezo Morino and The Morino Foundation for Molecular Science"

30 日 (月)

9:00-10:30

Ultrafast biochemistry

座長：加藤 隆二(日大工)

30F1 Villy Sundström (Lund University, Sweden)

"Fundamental Steps of Photoprotection and Photocatalysis"

30F2 寺嶋 正秀(京大院理)

"Spectrally Silent Processes are Important for Reactions Toward Biological Function"

30F3 Kankan Bhattacharyya (Indian Association for the Cultivation of Science, India)

"Conformational Dynamics in a Protein and Solvation Dynamics in a Live Cell:
Time Resolved Microscopy"