RAP 特別講演会

Language: Japanese

March 20 , 2015 (Friday) 15:00-16:30

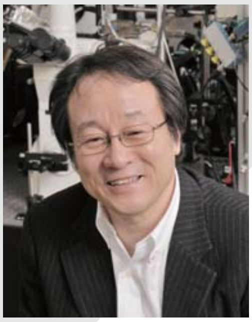
Cooperation Center 3F, W319, Wako, RIKEN

（和光地区 研究交流棟 3 階 W319）

15:00-15:30

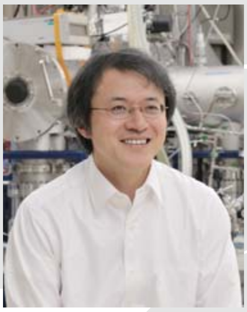
プラズモニクス：エキゾチックなナノフォトニクス

“Plasmonics: an exotic nanophotonics”



Dr. Satoshi Kawata Team Leader, Near-field NanoPhotonics Research Team

On the surface of metal, photons are non-radiative and confined in nanometer scale. They even stop due to the interaction with electrons collectively oscillating as the surface plasmon polaritons. I will show recent progress on our plasmonics study, including 3D cellular Raman imaging, plasmonic materials and their applications in deep UV, and fabrication of metamaterials with fractal geometry.



15:30-16:00

分子反応ダイナミクスとレーザー

“Molecular Reaction Dynamics and Lasers”

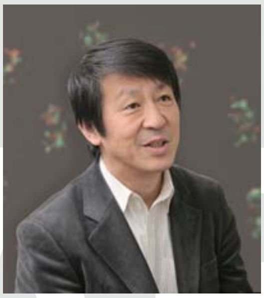
Dr. Toshinori Suzuki Team Leader, Molecular Reaction Dynamics Research Team

Molecular reaction dynamics is the heart of chemistry. How do atoms and molecule collide and undergo chemical rearrangements? How does a UV-excited molecule relax or dissociate? How are chemical reactions in solution influenced by solvents? Reaction dynamics experiments using lasers try to find the answers.

16:00-16:30

ライブセルイメージングの究極を目指して

“Towards Extreme Live Cell Imaging”



Dr. Akihiko Nakano Team Leader, Live Cell Molecular Imaging Research Team

We aimed at developing a new optical microscopic system that enables high-speed and high-resolution multicolor fluorescence imaging within living cells, and achieved very high performance. We applied it to tackle problems of intracellular membrane trafficking and discovered novel mechanisms of protein delivery between membrane compartments.

RIKEN

RAP

RIKEN Center for Advanced Photonics (RAP)
Contact：RAP Planning Office (cemsrap@riken.jp)