

## ISUILS2024

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- P-1 Simulation of rotational, vibrational, and electronic excitation dynamics of H<sub>2</sub><sup>+</sup> irradiated by an intense few-cycle 400-nm laser pulse**  
Erik Lötstedt,<sup>1</sup> Tsuyoshi Kato,<sup>1</sup> and Kaoru Yamanouchi<sup>1,2</sup> (<sup>1</sup> *Department of Chemistry, School of Science, The University of Tokyo,* <sup>2</sup> *Institute for Attosecond Laser Facility, The University of Tokyo*)
- P-2 Electron-nuclear energy sharing through low-energy inelastic recollisions in dissociative strong-field ionization of D<sub>2</sub>**  
Sebastian Hell<sup>1\*</sup>, Gerhard G. Paulus<sup>1,2</sup>, and Matthias Kübel<sup>1,2</sup> (<sup>1</sup> *Institute of Optics and Quantum Electronics, University of Jena,* <sup>2</sup> *Helmholtz Institute Jena*)
- P-3 Angle dependent ionization probability of N<sub>2</sub> in an intense laser field**  
Shinichi Fukahori and Hirokazu Hasegawa (*Graduate School of Arts and Sciences, The University of Tokyo, Komaba Institute for Science, The University of Tokyo*)
- P-4 Searching for signatures of collective tunneling in multiple ionization of Si<sup>+</sup> and Si<sub>2</sub><sup>+</sup> ions**  
B. Ying<sup>1,2\*</sup>, F. Machalett<sup>1,2</sup>, A. Sommerfeld<sup>1</sup>, M. Kübel<sup>1,2</sup>, and G. G. Paulus<sup>1,2</sup> (<sup>1</sup> *Institute of Optic and Quantum Electronics, Friedrich Schiller University Jena,* <sup>2</sup> *Helmholtz Institute Jena*)
- P-5 XUV coherence tomography with nanoscale resolution using high harmonic radiation**  
J. J. Abel, S. Fuchs, J. Reinhard, F. Wiesner, M. Wünsche, G. G. Paulus (*Faculty of Physics and Astronomy, Friedrich Schiller University Jena, Helmholtz Institute Jena*)
- P-6 Key role of the large-bandgap semiconductor property of water in femtosecond laser-induced breakdown**  
Helong Li<sup>1,\*</sup> and Huailiang Xu<sup>2</sup> (<sup>1</sup> *Institute of Atomic and Molecular Physics, Jilin University,* <sup>2</sup> *State Key Laboratory of Integrated Optoelectronics, College of Electronic Science and Engineering, Jilin University*)
- P-7 4D imaging of surface charge dynamics on isolated nanoparticles**  
Wenbin Zhang<sup>1,2,3\*</sup>, Ritika Dagar<sup>2,3</sup>, Philipp Rosenberger<sup>2,3</sup>, Jian Wu<sup>1</sup>, and Matthias F. Kling<sup>2,3,4,5</sup> (<sup>1</sup> *State Key Laboratory of Precision Spectroscopy, East China Normal University,* <sup>2</sup> *Physics Department, Ludwig-Maximilians-Universität Munich,* <sup>4</sup> *SLAC National Accelerator Laboratory,* <sup>5</sup> *Department of Applied Physics, Stanford University*)
- P-8 Development of a liquid flat-jet module for time-resolved soft X-ray attosecond spectroscopy**  
T. Fujiwara,<sup>1</sup> T. Mizuno,<sup>2</sup> T. Kurihara,<sup>2</sup> T. Yang,<sup>2</sup> T. Kanai,<sup>2</sup> Y. Harada,<sup>2</sup> K. Midorikawa,<sup>1</sup> and J. Itatani<sup>2</sup> (<sup>1</sup> *RIKEN Center for Advanced Photonics,* <sup>2</sup> *The Institute for Solid State Physics, The*

University of Tokyo)

**P-9 Wavefront control of relativistic high harmonic radiation generated from plasma mirrors**

Hyeon Kim<sup>1,2</sup>, Chul Min Kim<sup>1,3</sup>, Ki Hong Pae<sup>1,3</sup>, Kyung Taec Kim<sup>1,2\*</sup> (<sup>1</sup>*Center for Relativistic Laser Science, IBS*, <sup>2</sup>*Dept. of Physics and Photon Science, GIST*, <sup>3</sup>*Advanced Photonics Research Institute, Gwangju Institute of Science and Technology*)

**P-10 Taking a snapshot of a laser waveform using plasma fluorescence in ambient air**

Kyunghoon Yeom,<sup>1,2</sup> Wosik Cho,<sup>1,2</sup> Jeong-uk Shin,<sup>1,2</sup> Bin Kim,<sup>1,2</sup> Sung In Hwang,<sup>1,3</sup> Jae Hee Sung,<sup>1,3</sup> and Kyung Taec Kim<sup>1,2,\*</sup> (<sup>1</sup>*Center for Relativistic Laser Science, Institute of Basic Science*, <sup>2</sup>*Department of Physics and Photon Science, Gwangju Institute of Science and Technology*, <sup>3</sup>*Advanced Photonics Research Institute, Gwangju Institute of Science and Technology*)

**P-11 Single-shot carrier-envelope-phase measurement in ambient air**

Bin Kim<sup>1,2</sup>, Jeong-Uk Shin<sup>1,2</sup>, Wosik Cho<sup>1,2</sup>, Kyunghoon Yeom<sup>1,2</sup>, Yang Hwan Kim<sup>1,2</sup> and Kyung Taec Kim<sup>1,2</sup> (<sup>1</sup>*Department of Physics and Photon Science, Gwangju Institute of Science and Technology*, <sup>2</sup>*Center for Relativistic Laser Science, Institute for Basic Science*)

**P-12 Attenuation of the high-power laser beam at focus using a random pinhole attenuator**

Seong Choel Park<sup>1,2</sup>, Hyeok Yun<sup>1,3</sup>, Jin Woo Yoon<sup>1,3</sup>, Seong Ku Lee<sup>1,3</sup>, Jae Hee Sung<sup>1,3</sup>, Il Woo Choi<sup>1,3</sup>, Chang Hee Nam<sup>1,2</sup>, Kyung Taec Kim<sup>1,2,\*</sup> (<sup>1</sup>*Center for Relativistic Laser Science, Institute for Basic Science*, <sup>2</sup>*Department of Physics and Photon Science, Gwangju Institute of Science and Technology*, <sup>3</sup>*Advanced Photonics Research Institute, Gwangju Institute of Science and Technology*)