

## List of Poster Presentations

### **P-1 Classical trajectory modeling of atoms and molecules in intense laser fields**

Erik Lötstedt<sup>1,2,3</sup>, Tsuyoshi Kato<sup>1</sup>, Katsumi Midorikawa<sup>2,3</sup>, and Kaoru Yamanouchi<sup>1</sup> (<sup>1</sup> Department of Chemistry, School of Science, The University of Tokyo, <sup>2</sup>Laser Technology Laboratory, RIKEN, <sup>3</sup> RIKEN Center for Advanced Photonics)

### **P-2 Ab initio non-Born-Oppenheimer simulations of rescattering dissociation of H<sub>2</sub> in strong infrared laser fields**

Zhi-Chao Li and Feng He\* (Key Laboratory for Laser Plasmas (Ministry of Education) and Department of Physics, Shanghai Jiaotong University) **PRESENTATION WITHDRAWN**

### **P-3 Coulomb effects on photoelectron momentum distribution in strong laser fields**

Pei-Lun He<sup>a</sup>, Norio Takemoto<sup>b</sup> and Feng He<sup>a,\*</sup> (<sup>a</sup>Key Laboratory for Laser Plasmas (Ministry of Education) and Department of Physics, Shanghai Jiaotong University, <sup>b</sup>Max-Planck-Institut für Physik Komplexer Systeme) **PRESENTATION WITHDRAWN**

### **P-4 CEP-dependent strong-field multiple ionization of Xe**

Krithika Dota<sup>1</sup>, Aditya K. Dharmadhikari<sup>1,\*</sup>, Jayashree A. Dharmadhikari<sup>2</sup>, and Deepak Mathur<sup>1</sup> (<sup>1</sup> Tata Institute of Fundamental Research, <sup>2</sup> Centre for Atomic and Molecular Physics)

### **P-5 Tracing vibrational and rotational dynamics in molecules with ultrafast intense laser pulses**

Sankar De<sup>1,2</sup>, D. Ray<sup>2,5</sup>, I. Znakovskaya<sup>3</sup>, M. Magrakvelidze<sup>2,6</sup>, Nora G. Kling<sup>2</sup>, I. A. Bocharova<sup>2</sup>, W. Cao<sup>2</sup>, U. Thumm<sup>2</sup>, I. V. Litvinyuk<sup>2,4</sup>, I. Ben-Itzhak<sup>2</sup>, M. F. Kling<sup>2,3</sup> and C. L. Cocke<sup>2</sup> (<sup>1</sup>Applied Nuclear Physics Division, Saha Institute of Nuclear Physics, <sup>2</sup>J. R. Macdonald Laboratory, Physics Department, Kansas State University, <sup>3</sup>Max-Planck Institute of Quantum Optics, <sup>4</sup>Centre for Quantum Dynamics, Griffith University, <sup>5</sup>Lawrence Berkeley National Laboratory, <sup>6</sup>Northwest Missouri State University)

### **P-6 Development of a multi-electrode velocity map imaging apparatus**

Sankar De<sup>1</sup>, Krithika Dota<sup>2,3</sup>, Jayashree Dharmadhikari<sup>3</sup>, Aditya Dharmadhikari<sup>2</sup> and Deepak Mathur<sup>2,3</sup> (<sup>1</sup>Applied Nuclear Physics Division, Saha Institute of Nuclear Physics, <sup>2</sup>Tata Institute of Fundamental Research, <sup>3</sup>Centre for Atomic and Molecular Physics, Manipal University)

### **P-7 Multiphoton ionization and dissociation of methanol in intense laser fields by PEPICO-MI and MF-PAD methods**

Shinichi Fukahori<sup>1,2</sup>, Motoyoshi Nakano<sup>1</sup>, Ryuji Itakura<sup>1</sup>, Kaoru Yamanouchi<sup>2</sup> (<sup>1</sup> Kansai Photon Science Institute, Japan Atomic Energy Agency, <sup>2</sup>Department of Chemistry, School of Science, The University of Tokyo)

**P-8 Electron localization-assisted enhanced strong-field deprotonation ionization of acetylene**

Xiaochun Gong, Qiying Song, Qinying Ji, Haifeng Pan, Jingxin Ding, Heping Zeng, and Jian Wu\* (State Key Laboratory of Precision Spectroscopy, East China Normal University)

**P-9 Attosecond steering of chemical bond-cleavage in simple and polyatomic molecules**

A. S. Alnaser<sup>1</sup>, M. Kübel<sup>2,3</sup>, H. Li<sup>2,3</sup>, B. Bergues<sup>3</sup>, N.G. Kling<sup>2,3</sup>, R. Siemering<sup>4</sup>, R. de Vivie-Riedle<sup>4</sup>, R. Moshhammer<sup>5</sup>, and M. F. Kling<sup>2,3</sup> (<sup>1</sup>Department of Physics, American University of Sharjah, <sup>2</sup>Department of Physics, Ludwig-Maximilians-Universität München, <sup>3</sup>Max-Planck-Institut für Quantenoptik, <sup>4</sup>Department für Chemie und Biochemie, Ludwig-Maximilians-Universität München, <sup>5</sup>Max-Planck-Institut für Kernphysik) **PRESENTATION WITHDRAWN**

**P-10 Carrier-envelope phase dependence of spectral minima in molecular harmonics induced by midinfrared laser pulses**

Pidong Hu<sup>1,2</sup>, Chengpu Liu<sup>1</sup>, and Ruxin Li<sup>1</sup> (<sup>1</sup>State Key Laboratory of High Field Laser Physics, Shanghai Institute of Optics and Fine Mechanics, Chinese Academy of Sciences, <sup>2</sup>Department of Physics, East China University of Science and Technology)

**P-11 Generation of attosecond XUV pulses via laser solid interaction**

Ashutosh Sharma (Senior Scientist, ELI-ALPS) **PRESENTATION WITHDRAWN**

**P-12 Using ultrashort, intense laser pulses to generate extremely small gold nanoparticles**

Parinda Vasa, <sup>1,\*</sup> Rahul Sharma,<sup>1</sup> Mamraj Singh,<sup>1</sup> Aditya K. Dharmadhikari,<sup>2,#</sup> Jayashree A. Dharmadhikari,<sup>3</sup> and Deepak Mathur<sup>2,\*</sup> (<sup>1</sup>Department of Physics, Indian Institute of Technology Bombay, <sup>2</sup>Tata Institute of Fundamental Research, <sup>3</sup>Centre for Atomic and Molecular Physics, Manipal University)

**P-13 Effect of filamentation on ultrashort laser-induced DNA damage**

J. A. Dharmadhikari<sup>1</sup>, H. Bharambe<sup>2</sup>, K. K. Chaitanya<sup>2</sup>, J. S. D'Souza<sup>2</sup> A. K. Dharmadhikari<sup>3</sup> and D. Mathur<sup>1,3</sup> (<sup>1</sup>Department of Atomic and Molecular Physics, Manipal University, <sup>2</sup>UM-DAE Centre for Excellence in Basic Sciences, Kalina campus, <sup>3</sup>Tata Institute of Fundamental Research)

**P-14 Femtosecond laser based inscription of waveguides and splitters in borosilicate glass**

J. A. Dharmadhikari<sup>1\*</sup>, K. Mittholiya<sup>2</sup>, A. K. Mallik<sup>2</sup>, A. Bhatnagar<sup>3</sup>, R. Bernard<sup>3</sup>, D. Mathur<sup>1,3</sup> and A. K. Dharmadhikari<sup>3</sup> (<sup>1</sup>Centre for Atomic and Molecular Physics, Manipal University, <sup>2</sup>Photonics Division, SAMEER, IIT campus, <sup>3</sup>Tata Institute of Fundamental Research)

**P-15 Wakefield enhancement by two-color, short laser pulses propagating in plasma**

Akanksha Saroch and Pallavi Jha (Department of Physics, University of Lucknow)

**P-16 Laser wakefield acceleration and x-ray generation from an asymmetric laser pulse interactions with plasmas**

D. N. Gupta,<sup>1</sup> M. Kaur,<sup>1</sup> I. H. Nam,<sup>2</sup> and H. Suk<sup>2</sup> (<sup>1</sup>Department of Physics and Astrophysics, University of Delhi, <sup>2</sup>Department of Physics and Photon Science, Gwangju Institute of Science and Technology)

**P-17 Laser pulse shape distortion in a parabolic density plasma channel**

Maninder Kaur and D. N. Gupta (Department of Physics & Astrophysics, University of Delhi)

**P-18 Frequency doubling and tripling of an amplitude-modulated laser beam in plasmas**

Mamta Singh and D. N. Gupta (Department of Physics and Astrophysics, University of Delhi)

**P-19 High quality electron beams from laser plasma acceleration using gas jets and preformed plasmas from solids**

B. S. Rao, A. Moorti, J. A. Chakera, P. A. Naik, and P. D. Gupta (Laser Plasma Division, Raja Ramanna Centre for Advanced Technology)

**P-20 Laser acceleration of protons using neon-proton gaseous targets**

Tung-Chang Liu<sup>1</sup>, Xi Shao<sup>1</sup>, Chuan-Sheng Liu<sup>1</sup>, W. T. Hill, III<sup>1,\*</sup>, Bengt Eliasson<sup>1,2</sup>, Jyhpyng Wang<sup>3,4</sup> and Shih-Hung Chen<sup>4</sup> (<sup>1</sup>Department of Physics, University of Maryland, <sup>2</sup>SUPA, Department of Physics, Strathclyde University, <sup>3</sup>Institute of Atomic and Molecular Sciences, Academia Sinica, <sup>4</sup>Department of Physics, National Central University)

**P-21 Experimental and theoretical studies on acceleration of background gas ions induced by Coulomb explosion of clusters**

Y. Fukuda<sup>1</sup>, M. Kanasaki<sup>1</sup>, S. Jinno<sup>1</sup>, H. Sakaki<sup>1</sup>, M. Nishiuchi<sup>1</sup>, A. Ya. Faenov<sup>1</sup>, T. A. Pikuz<sup>1</sup>, H. Kiriya<sup>1</sup>, M. Kando<sup>1</sup>, K. Kondo<sup>1</sup>, K. Oda<sup>2</sup>, T. Yamauchi<sup>2</sup>, K. Morishima<sup>3</sup>, Y. Watanabe<sup>4</sup>, C. Scullion<sup>5</sup>, A. G. Smyth<sup>5</sup>, A. Alonso<sup>5</sup>, D. Doria<sup>5</sup>, M. Borghesi<sup>5</sup>, R. Matsui<sup>2</sup>, Y. Kishimoto<sup>2</sup> (<sup>1</sup>Kansai Photon Science Institute, Japan Atomic Energy Agency, <sup>2</sup>Graduate School of Maritime Sciences, Kobe University, <sup>3</sup>EcoTopia Science Institute, Nagoya University, <sup>4</sup>Department of Advanced Energy Engineering Science, Kyushu University, <sup>5</sup>Centre for Plasma Physics, School of Mathematics and Physics, Queen's University Belfast, <sup>b</sup>Graduate School of Energy Science, Kyoto University)

**P-22 XUV enhancement at 89 nm via nonlinear interaction of femtosecond UV filaments**

Di Wang, Wenxue Li, Liangen Ding, and Heping Zeng (State Key Laboratory of Precision Spectroscopy, East China Normal University)

**P-23 Intense THz radiation from laser plasma with controllable waveform and polarization**

Peng Liu, Ya Bai, Liwei Song, Ruxin Li and Zhizhan Xu (Shanghai Institute of Optics and Fine Mechanics, Chinese Academy of Sciences)