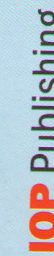
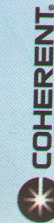
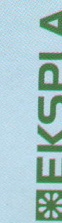
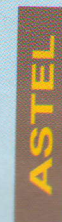


LPHYS'14



23th International Laser Physics Workshop
July 14–18, 2014, Sofia, Bulgaria

PROGRAM



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High-order above-threshold ionization of an atom in IR+XUV two-color laser fields

2.11.4 M. Li, J. Geng, H. Liu, Y. Deng, C. Wu, L.-Y. Peng, Q. Gong, and Y. Liu (Beijing, China)

Classical-quantum correspondence for above threshold ionization

Poster Session, July 15, 19:45-21:00

Chair: M.V. Fedorov (Russia)

P2.1 A. Gazibegović-Busuladžić, E. Hasović, A. Čerkić (Sarajevo, Bosnia and Herzegovina), W. Becker (Berlin, Germany), D.B. Milošević (Sarajevo, Bosnia and Herzegovina; Berlin, Germany), and M. Busuladžić (Sarajevo, Bosnia and Herzegovina)

Atomic and molecular processes generated by few-cycle laser pulses

P2.2 A. Dakova, L.M. Kovachev, and K.L. Kovachev (Sofia, Bulgaria)

λ^3 diffraction of phase-modulated broad-band femtosecond pulses

P2.3 A.S. Emelina, M.Yu. Emelin, and M.Yu. Ryabikin (Nizhny Novgorod, Russia)

Generation of high harmonics with energies beyond 10 keV in neutral gases irradiated by mid-infrared laser pulses

P2.4 K. Krajewska and J.Z. Kamiński (Warszawa, Poland)

Circular dichroism in nonlinear electron-positron pair creation

P2.5 M.V. Frolov, D.V. Knyazeva, N.L. Manakov (Voronezh, Russia), and A.F. Starace (Lincoln, NE USA)

Chasm-like structures in ATI spectra for a two-color laser field: suppression of single-return trajectories

P2.6 T. Morioka and H. Takabe (Osaka, Japan)

Effects of pulse structure on gamma ray emission and pair production in high-intensity laser fields

P2.7 A.H. Gevorgyan, K.B. Oganessyan (Yerevan, Armenia), and G.A. Vardanyan (Granada Hills, CA USA)

The photonic density of states of the stack of cholesteric liquid crystal and anisotropic medium layers

P2.8 K.B. Oganessyan, N.Sh. Izmailyan (Yerevan, Armenia), A.E. Ayryan, and A.S. Ayryan (Dubna, Russia)

Diamond synthesis using electron beams

P2.9 T.S. Sarantseva, M.V. Frolov, N.L. Manakov (Voronezh, Russia), and A.F. Starace (Lincoln, NE USA)

Caustics in two-color laser field with orthogonal polarizations

P2.10 A.A. Silaev and N.V. Vvedenskii (Nizhny Novgorod, Russia)

Effective absorbing layers in numerical solutions of the time-dependent Schrödinger equation

P2.11 V. Usachenko, V. Kim, and P. Pyak (Tashkent, Uzbekistan)

Signatures of field-induced intramolecular quantum interference in higher order harmonic generation by laser-irradiated homonuclear diatomic(s)

P2.12 S. Varró (Szeged, Hungary; Budapest, Hungary), N. Kroó (Budapest, Hungary) and P. Rácz (Szeged, Hungary; Budapest, Hungary)

Surface-plasmon-induced effective attraction between electrons

P2.13 A.N. Zheltukhin, A.V. Flegel, M.V. Frolov, N.L. Manakov (Voronezh, Russia), and A.F. Starace (Lincoln, NE USA)

Resonant electron-atom bremsstrahlung in an intense laser field

Monday, July 14

Seminar 3.1

Chair: E. Borisova (Bulgaria)

13.30-13.55 3.1.1 J. Lademann, A. Patzelt, H. Richter (Berlin, Germany), O. Lademann (Rostock, Germany), M.E. Darvin, M.E. Meinke (Berlin, Germany), A. Kramer (Greifswald, Germany), and B. Lange-Asschenfeldt (Klagenfurt am Woerthersee, Austria)

Application of laser scanning microscopy for the evaluation of effects of tissue-tolerable plasma in Dermatology

13.55-14.20 3.1.2 M. Jelinek, T. Kocourek, P. Pisářík, J. Remsa, J. Zemek, and L. Bačáková (Prague, Czech Republic)

Chromium-doped biomaterials prepared by laser

14.20-14.45 3.1.3 L. Avramov, I. Iliev, Ch. Markovska, and I. Kacarska (Sofia, Bulgaria)

Study of chlorine photosensitizers assisted photodynamic effect in vitro

14.45-15.05 3.1.4 F. Lu, M. Jin, and M.A. Belkin (Austin, Texas, USA)

Mid-infrared nanospectroscopy by detecting molecular expansion forces

15.05-15.25 3.1.5 P. Pavlova (Plovdiv, Bulgaria), E. Borisova, El. Pavlova, and L. Avramov (Sofia, Bulgaria)

Adaptive technique for matching the spectral response in skin lesions' images

15.25-15.45 3.1.6 A.A. Krasnovsky (Moscow, Russia)

Laser applications to studies of singlet oxygen photonics

Coffee break

Seminar 3.2

Chair: J. Lademann (Germany)

16.15-16.35 3.2.1 E. Borisova, E. Pavlova, P. Troyanova, B. Vladimirov, R. Ivanova, and L. Avramov (Sofia, Bulgaria)

Light-induced fluorescence spectroscopy of cutaneous and mucosal tumors – clinical applications

16.35-16.55 3.2.2 V.S. Maryakhina and L.S. Scheglova (Orenburg, Russia)

Laser flash photolysis in investigation of breast cancer at different stages of pathology development

16.55-17.15 3.2.3 V.B. Loschenov, T.A. Saveliyeva, P.V. Grachev, M.V. Loshchenov, S.A. Goryanov, P.V. Zelenkov, and A.A. Potapov (Moscow, Russia)

Multimodal spectroscopy technique for optical biopsy in vivo during neurosurgery

17.15-17.35 3.2.4 L. Angelov, N. Markova, I. Eneva, V. Mantareva, E. Borisova, and V. Enchev (Sofia, Bulgaria)

Tautomer compound with capabilities for application in fluorescent investigation of biomolecules

17.35-17.55 3.2.5 T.Yu. Mogul'naya, P.V. Bobkov, V.A. Tomilin, and E.B. Kononenko (Moscow, Russia)

Real-time monitoring of changes the pathogens concentration in under influence of nanosilver particles by resonance laser spectroscopy techniques