

Session Title:	[Th1B] Strong Field Driven Light Matter Interaction
Session Date:	August 8 (Thu.), 2024
Session Time:	11:00-12:30
Session Room:	Room B (104-106)
Session Chair(s)	Prof. Kyung Taec Kim (GIST, Korea)

[Th1B-1] [Invited] 11:00-11:30

#### Attosecond Pulses Generated from Relativistically Driven Plasma

Yang Hwan Kim, Hyeon Kim, Seong Cheol Park, Yongjin Kwon, Kyunghoon Yeom, Wosik Cho, Taeyong Kwon, Hyeok Yun, Jae Hee Sung, Seong Ku Lee (GIST, Korea), Tran Trung Luu (The Univ. of Hong Kong, Hong Kong S.A.R), Chang Hee Nam, and Kyung Taec Kim (GIST, Korea)

[Th1B-2] 11:30-11:45

#### Laguerre Gaussian Laser Filamentation for the Control of Electric Discharges in Air

Silin Fu, Leonid Arantchouk, Magali Lozano, André Mysyrowicz (Institut Polytechnique de Paris, France), Arnaud Couairon (Centre de Physique Theorique, France), and Aurélien Houard (Institut Polytechnique de Paris, France)

[Th1B-3] 11:45-12:00

#### Improved Performance of Few-TW Laser Wakefield Acceleration with a sub-mm Gas Jet of an Asymmetric Density Profile

Po-Wei Lai, Dang Khoa Tran (Nat'l Tsing Hua Univ., Taiwan), Shou-Wei Chou, Chih-Hao Pai, Hsu-Hsin Chu, Shih-Hung Chen (Nat'l Central Univ., Taiwan), Jyhpyng Wang (Academia Sinica, Taiwan), and Ming-Wei Lin (Nat'l Tsing Hua Univ., Taiwan)

[Th1B-4] 12:00-12:15

#### Optical Nonlinearity of Free Electrons

H. Hu (Istituto Italiano di Tecnologia, Italy), A. Rossetti (Univ. of Luxembourg, Luxembourg), T. Venanzi (Istituto Italiano di Tecnologia, Italy), A. Bousseksou (Univ. of Paris-Saclay, France), F. De Luca (City Univ. of New York, USA), T. Deckert (Univ. of Luxembourg, Luxembourg), V. Giliberti (Istituto Italiano di Tecnologia, Italy), I. Sagnes, G. Beaudoin (Universite Paris-Saclay, France), D. Brida (Univ. of Luxembourg, Luxembourg), R. Colombelli (Universite Paris-Saclay, France), M. Ortolani (Sapienza Univ. of Rome, Italy), and C. Ciraci (Istituto Italiano di Tecnologia, Italy)

[Th1B-5] 12:15-12:30



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## Extending Femtosecond Laser Superfilamentation in Air with a Multifocal Phase Mask

Silin Fu, Leonid Arantchouk, André Mysyrowicz, and Aurélien Houard (Institut Polytechnique de Paris, France)