

| Technical Session | Technical Session Organizer |
|--------------------------------|--|
| 4.4 High Energy Density Matter | David Ampleford (damplef@sandia.gov) |

Session TU 2.4: High Energy Density Matter & Opening and Closing Switches

Tuesday, May 23, 2017 from 16:00-18:00, Wildwood 13

Session Chair: Kefu Liu, Fudan University, China

16:00 TU 2.4-1 (invited) QUENCHED HIGH GAIN OPERATION OF GAAS PHOTOCONDUCTIVE SEMICONDUCTOR SWITCH AT NANO-JOULES EXCITATION

M. Xu, H. Liu, C. Ma, L. Hou, W. Shi

Applied Physics, Xi'an University of Technology, Xi'an, China

16:30 TU 2.4-2 MECHANISM OF THE POST-ARC DYNAMIC VOLTAGE DISTRIBUTION FOR SERIES-CONNECTED VACUUM GAPS IN MULTI-BREAK VACUUM CIRCUIT BREAKERS

M. Liao, G. Ge, X. Duan, G. Lu, J. Zou

school of electrical engineering, dalian university of technology, dalian, China

16:45 TU 2.4-3 MODELING AND SIMULATION OF THE INTERACTION BETWEEN HIGH-CURRENT VACUUM ARC AND ANODE VAPOR

L. Wang, X. Zhang, Z. Yang, R. Lin, S. Jia

Xi'an Jiaotong University, Xi'an, Shaanxi, China

17:00 TU 2.4-4 STUDY OF THE INITIAL TRANSITION PROCESS OF HIGH CURRENT VACUUM ARC IN TRANSVERSE MAGNETIC FIELD (TMF)

S. Xiu, D. Feng, T. Wang, Z. Liu, J. Yang

State Key Laboratory of Electrical Insulation and Power Equipment, Xi'an Jiaotong University, Xi'an, China

17:15 TU 2.4-5 SECOND GENERATION HIGH-VOLTAGE, ULTRA-FAST, HIGH RELIABILITY SOLID STATE THYRATRON REPLACEMENTS

J. Waldron

Silicon Power Corporation, Malvern, PA, United States

17:30 TU 2.4-6 MICROWAVE PULSE COMPRESSION EXPERIMENTS USING RF BREAKDOWN TRIGGERED SWITCH UNDER REPETITIVE OPERATIONAL CONDITIONS

S. P. Savaidis, N. A. Stathopoulos, S. A. Mitilineos, Z. C. Ioannidis

Electronics Engineering, Piraeus University of Applied Sciences, Athens, Greece

17:45 TU 2.4-7 RESEARCH ON A NOVEL HIGH-POWER SEMI-INSULATING GAAS PHOTOCONDUCTIVE SEMICONDUCTOR SWITCH

J. Xiao, C. Luan, X. Ma, H. Li

China Academy of Engineering Physics, Mianyang, Sichuan, China