

PPPS 2019

Tuesday, 25 June 2019

Poster - Microwave Generation and Plasma Interactions and Pulsed Power Switches and Components - Universal Center

(13:00 - 14:30)

-Conveners: Jose Rossi; Jason Sanders; Joel Ennis

[id] title	presenter	board
[542] 2P02 - Modeling the wakefield excitation by a 28 GHz microwave pulse in a plasma filled waveguide	LEOPOLD, J.G.	
[599] 2P33 - High Power Radio Frequency Pulse Shaping For a 1.5MW S Band Magnetron Source	BUTCHER, Michael	
[925] 2P36 - Electron Temperature and Density Measurements of Plasma Generated at the Focus of a CW Microwave Beam	LOPEZ, Adrian	
[541] 2P01 - Modeling a compact A6 relativistic magnetron operating with permanent magnets	Dr LEOPOLD, John	
[842] 2P75 - THE DISCHARGE CHARACTERISTICS OF C5 AND ITS MIXTURES IN UNIFORM FIELD UNDER AC VOLTAGE	YAN, Jiayin	
[600] 2P69 - A sequential characterization method for the insulation evaluation of the rod-plane gap under repetitive frequency nanosecond pulses in high-pressure nitrogen	Mr ZHAO, Zheng	
[1265] 2P40 - Linear plasma experiment for non-linear microwave interaction experiments	WHYTE, colin	
[1243] 2P30 - Electrostatic Finite Element Numerical Modeling of Spark Gap and Related Accelerator Structures	Ms BERDINE, Rena	
[776] 2P62 - A comprehensive design procedure for high voltage pulse power transformers	Dr JARITZ, Michael	
[1209] 2P65 - Design of A Long Pulse High Energy Water Transmission Line to Drive HPM Sources	Dr PORTILLO, Salvador	
[739] 2P45 - High performance triggering transformer for stack of series connected thyristors	SENAJ, Viliam	
[948] 2P49 - Performance of 20-kV, 20-A Silicon Carbide High-Voltage Modules	HINOJOSA, Miguel	
[701] 2P09 - Cold Test Validation of Metamaterial Based Rectangular Slow Wave Structure for High Power Backward-Wave Oscillators	Ms ESER, Doğancan	
[860] 2P12 - The Influence of Magnetic Field Profile on the Downstream Electrons and the Output Mode of MDO	Prof. CHUNG, Shen Shou Max	
[1059] 2P17 - Pulsed RF Signal Irradiation Using a Low Voltage NLTL Coupled to a DRG Antenna*	Dr ROSSI, Jose O. SCHAMILOGLU, Edl	
[1163] 2P18 - E-band Overmoded Relativistic Backward Wave Oscillator	BI, Liangjie ELFRGANI, Ahmed	
[1156] 2P05 - Fast-Wave and Slow-Wave Interactions in the Rippled-Field Magnetron	KUSKOV, Artem Ms HERNANDEZ, Stacie	
[567] 2P03 - Effects of the Mesh Anode Transparency on the Operation Characteristics of the Virtual Cathode Oscillator	Mr KIM, Se-Hoon	

[1298] 2P66 - A 1 MV Tesla pulsed transformer	Mr WOODYARD, Matthew	
[713] 2P24 - Hybrid Quantum-Hydrodynamics/Kinetics Model for Dense Plasma Mixtures	Mr STANEK, Lucas J.	
[1096] 2P28 - Dispersion Engineering for O and M-Types High Power Microwave Sources	KUSKOV, Artem	
[629] 2P70 - Experimental approach of the dielectric strength of a vacuum insulator	CADILHON, Baptiste	
[585] 2P08 - Metamaterial Based RF Source	FOULKES, Simon	
[1057] 2P16 - Simulations of a W-Band Circular TWT	NUSRAT ISLAM, Khandakar	
[912] 2P77 - Investigation of impulsive breakdown of interfaces formed by ester insulating liquids and solid dielectrics	Mr WILLIAMSON, Chris	
[596] 2P68 - Design of a Dielectric Compression Bushing for Compact, High-Voltage Applications	Dr BUTCHER, Michael	
[781] 2P35 - Investigation into the Propagation of Electron Beams of Different Shapes through Gas-Filled Space Using PIC Simulations	PAL, Udit Narayan	
[575] 2P07 - Examination of stability against beam parameters in a Ku band helix TWT	Prof. OKSUZ, Lutfi	
[1039] 2P14 - W-band 2D Periodic Lattice Oscillator	Dr WHYTE, Colin	
[729] 2P61 - STUDY ON SHEATH INDUCED VOLTAGE AND SPATIAL TEMPERATURE FIELD OF LONG-DISTANCE 330/110KV CABLE SHARED THE SAME PIPE JACKING	Mr LIU, Shuhan	
[785] 2P47 - Development and Switching Characterization Study of Hot Cathode Thyatron for Pulse Modulator Applications in Linear Accelerator	PAL, Udit Narayan	
[754] 2P72 - INFLUENCE OF THE CREEPAGE DISTANCE ON SURFACE FLASHOVER OF THE EPOXY INSULATION UNDER AC VOLTAGE IN C4F7N-CO2 MIXTURES	ZHENG, Zhongbo	
[1242] 2P55 - On the performance of triggered closing switches deployed in high explosive pulsed power experiments*	Dr YOUNG, Andrew	
[1263] 2P80 - Insulator Technologies to Achieve Maximum Electric Field Holdoff	Mr HARJES, Cameron	
[838] 2P48 - DIFFERENT PATTERNS OF CURRENT QUENCHING PHENOMENA DURING PSEUDOSPARK DISCHARGE	YAN, Jiaqi	
[797] 2P57 - Silicon Carbide drift step recovery diode structures evaluated as >10kV nanosecond pulse power switches using Mixed-Mode simulation	Mr ARTHUR, Stephen	
[734] 2P44 - Perspectives of Supercritical Fluids for Switching Applications	Prof. PEMEN, Guus	
[1307] 2P19 - 3D ICEPIC SIMULATION OF AN X-BAND RELATIVISTIC TWISTRON	Dr GENSHEIMER, Paul	
[976] 2P50 - Surface Passivation of GaAs Photoconductive Semiconductor Switches with Silicon Resin	Mr KIM, Yong-Pyo	
[1154] 2P29 - Fast A-Stable Implicit Scheme and Scalable Software MOLTN For Electromagnetics	THAVAPPIRAGSAM, Mathialakan	
[817] 2P10 - Simulation of an Industrial Magnetron Using Cathode Modulation	Mr YUE, Andong	
[827] 2P11 - NLTL Frequency Chirp through Dynamic Bias of Inductor Cores	SCHROCK, Emily	
[1054] 2P15 - Operation of a Gyromagnetic Line with Magnetic Axial Bias	YAMASAKI, Fernanda ROSSI, Jose SCHAMILOGLU, Edl	

[809] 2P20 - Simulations of Surface Inhomogeneities in Field Emission	Dr TORFASON, Kristinn	
[995] 2P21 - Beam-Current Loss in Emittance-Dominated High-Frequency Tubes	ZUBORAJ, Muhammed	
[788] 2P26 - Plasma Simulation and Modeling of Pseudospark Discharge for High Density and Energetic Electron Beam Generation	., Varun	
[943] 2P27 - PIC-DSMC numerical grid heating in collisional plasmas: Application to streamer discharge simulations	MOORE, Chris	
[1290] 2P31 - Modeling of gas recirculation effects in nanosecond-pulsed high-frequency discharges	STRAUBING, Asher	
[571] 2P32 - Study of two-surface multipactor susceptibility using Monte Carlo simulation	Mr HUANG, Zizhuo	
[665] 2P34 - Feasibility Study of Guiding High Power Microwave with Laser Created Plasma Ring Channels or Photonic Crystals in Air	Prof. CHUNG, Shen Shou Max	
[982] 2P37 - Multipactor in Coaxial Transmission Lines	Dr JORDAN, Nicholas M.	
[1146] 2P39 - Suppressing single-surface multipactor discharges using non-sinusoidal electric field	Dr WEN, Deqi	
[774] 2P46 - Data acquisition system for HEH monitor	CABRERIZO PASTOR, David	
[978] 2P51 - Comparison of Lateral and Vertical Photoconductive Semiconductor Switches Fabricated on 4H-SiC	CHOI, Pyeunghwi	
[1118] 2P53 - The Influence of Electrode Profile on Repetition Performance of Corona-stabilized Switch	LI, Longjie Mr WANG, Yongsheng	
[1120] 2P54 - Polarity Effect of Repetitive Corona Stabilization Breakdown	Dr LI, Longjie	
[689] 2P59 - A High-gain nanosecond pulse generator based on inductor energy storage and pulse forming line voltage superposition	MA, Jianhao	
[839] 2P74 - STUDY OF DISSOCIATION CHARACTERISTIC OF SF6-N2 MIXTURES UNDER CORONA DISCHARGE WITH PIN-TO-PLATE ELECTRODE	Ms YAN, Jiayin	
[906] 2P76 - C5F10O/N2 GAS MIXTURE TO SUBSTITUTE SF6 IN HIGH VOLTAGE APPLICATIONS	YAN, Jiaqi	
[968] 2P13 - Hybrid Kinetic-Fluid Simulations of a Ku-band MILO	STOLTZ, Peter	
[582] 2P56 - MODERNIZATION OF THE MARX AND RIMFIRE TRIGGERING SYSTEMS FOR THE HERMES-III ACCELERATOR	Dr GRABOWSKI, Chris	
[1319] 2P81 - Impact on electrodes during plasma decomposition of carbon dioxide	Dr WRIGHT, Kamau	
[890] 2P04 - Development and testing of the 190 GHz dual mode OAM gyrotron with axial output	SAWANT, Ashwini	
[511] 2P06 - Frequency tunable X-band Relativistic Backward Wave Oscillator	DIOT, jean-christophe	1