Session Program

3-7 Jun 2018



2018 IEEE International Power Modulator and High Voltage Conference

Poster 3 - Power Modulator Systems and Applications

Jackson Lake Lodge, Jackson Lake Lodge 101 Jackson Lake Lodge Road, Jackson Lake Lodge, Moran, WY 83013 Phone: (307) 543-3100

Wednesday 6 June

13:30

Poster 3 - Power Modulator Systems and Applications

Poster Session | Location: Buffalo/Moose

High Burst Rate Charging System for the Lithium Lens Power Supply

Speaker

Daniil Frolov

Characteristic Evaluation of Virtual Cathode Oscillator with High Transmittance Anode

High Power Microwaves facilities and generators of CEA/GRAMAT

RF measurements to determine tranverse impedance of a linear accelerator cell

A FEM-based simulation of electromagnetic forces on transformer windings under short-circuit

Speaker

Mr Yi Zhao

An Innovative Method for generating High-Stability Flat-Top Pulsed Magnetic Field

Nanosecond Electric Pulses for Anti-Cancer Treatment

Improving the voltage modulation depth and RF power generated on Nonlinear Transmission lines

Speaker

Dr Lauro Paulo Silva Neto

Pulsed Electric Field Processing of Fruits and Vegetables

Characterisation of a DBD plasma in dependence of its supply parameters for surface modification

Experimental Demonstration of a Representative Rotary Motor and Linear Actuator Using Controlled Turn-less Structures Arrays Motors (CTM)

GAS TEMPERATURE DEPENDENCE ON PULSE FREQUENCY IN NANOSECOND-PULSE HIGH-FREQUENCY DISCHARGES

Simulation study of switching over-voltage of UHVDC transmission system under hierarchical connection mode caused by typical faults

Activation of Endoplasmic Reticulum Stress Response by Applying of Nanosecond Pulsed Electric Fields for Medical Application

Development of a compact, 240-kV, 10-J impulse generator for mobile platforms

Development of High Power Burst Pulse Generator for Cancer Treatment and Investigation of Superiority of High Power Burst Pulse as against Single Pulse

Speaker

Hiromi Sato

Design and characterization of n benchtop electron beam system for validation of gas transport

Consolidation of the 400kA magnetic horn power supply for AD antiproton production

Study of the electrostatic precipitator efficiency according to particle size and HV supply

Electric Pulse Modification of Cancer Cell Population Dynamics

Optimisation of the FRANZ chopper system

Speaker

Christopher Wagner

Spatially Dispersive Nonlinear Transmission Line Experimental Performance Analysis and COMSOL Simulation Development

RF Generation at 200 MHz Using a SiC Schottky Diode Lumped NLTL*

Speakers

Dr Jose Rossi, Lauro Paulo Silva Neto

Measurement and analysis of luminescence signal and emission spectrum in vacuum surface flashover for polymeric materials

Development, Implementation and Final Performance of the new PS Booster Distributor Generators (PFN, 6.3kV/1kA) with Fast Protection System

PROTOTYPE INDUCTIVE ADDER FOR THE PROTON SYNCROTRON AT CERN

Speaker

David Woog

Developing a benchmark example of magnetically insulated transmission line current loss

Speaker

Andrew Fierro

Simultaneous Switching of Multiple GaN Transistors in a High-Speed Switch

Speaker

Daniil Frolov

A Multiple Material Velocimetry Based Current Loss Detector for Pulsed Power Systems

Design and First Tests of a Cathode Ion Detector at Z (CIDZ) to Measure Positive Ion Current at the Convolute on the Z Machine

Electrical Characteristics of Low Voltage Compact Virtual Cathode Oscillator

Nonlinear Transmission Line for RF Plasma Heating

Interaction of water with Barium Titanate thin films and nanoparticles: Oxygendeficient defects and hydrogen decorated surfaces

Speaker

Renee Van Ginhoven

Synergistic enhancement of antibiotic susceptibility of bacteria using nanosecond electric pulses

A multi-waveform pulsed current generator for slow kicker magnets

Discussion of Discharge Distribution in Reactor and Design of Reactor for Dense Ozone Production Using Nanosecond Pulsed Power

Speaker

Mr Yuki Utsumi

HIGH-SPEED IMAGING OF EXPLODING DETONATORS

Speaker

Mr Henry Gaus

Life Review and Development of Thyratron in Linac Coherent Light Source

Speaker

Dr Xupeng Chen

Pulse power system for formation and acceleration of field-reversed configurations in C2-W.

Impedance Information from Different Electrode-pairs under four electrodes-Refelecting the irreversible electroporation outcome

Speaker

Yajun Zhao

Treatment of Anionic Surfactant Solution Using Nanosecond Pulsed Power Discharges

Analysis of Pulsed RF Signals Radiated from a Capacitive NLTL*

Speaker

Dr Jose Rossi

15:00