### **Session Program**

18-22 Jun 2017



### **2017 IEEE Pulsed Power Conference**

## Poster session I - High Power Microwaves, RF Sources and Antennas

Hilton Brighton Metropole Hotel Kings Road Brighton BN1 2FU United Kingdom

### Monday 19 June

13:30

### Poster session I - High Power Microwaves, RF Sources and Antennas

Poster Session | Location: Hilton Brighton Metropole Hotel, Hall 4 / Cambridge

### High Power Soliton Generation Using Hybrid Nonlinear Transmission lines

#### **Speaker**

Dr Lauro Paulo Silva Neto

#### Improved secondary windings for the Tesla transformer

#### Speaker

Prof. Ivor Smith

#### **Magnetic Coupling in Tesla transformers**

#### Speaker

Prof. Ivor Smith

### High-Power RF Source for the Pulsed Fields Excitation in the Ground

#### **Speaker**

Yaroslav Tkach

#### High-Current Test Stand for HPM Sources Testing Based on the Marx Generator

#### Speaker

Yaroslav Tkach

### Planar removable high voltage Vivaldi antenna

#### Speaker

Dr Jean-Christophe DIOT

# Experimental investigation of relativistic backward-wave oscillators operating in phase-induced regime

#### Speaker

Dr Vladislav Rostov

# Phase control in a klystron-like relativistic backward wave oscillator operating at low guiding magnetic field with 10 kW input signal

#### Speaker

Dr Renzhen Xiao

# An all circular waveguide four-way power combiner with ultra high power capacity and high combination efficiency

#### Speaker

Dr Renzhen Xiao

# DEVELOPMENT AND TEST OF A COMPACT PFN MARX FOR 100 PPS REPETITIVE OPERATION AT 400 kV - 85 ns - 5 ns RISE TIME ON A 100 Ohm LOAD

#### **Speaker**

**Martial Toury** 

#### EFFECTS OF PULSE SHAPES ON AXIAL VIRTUAL CATHODE OSCILLATOR

Speaker

Mr Se-Hoon Kim

# Analysis on Design Parameters of Plasma Limiter for Protecting against High Power Electromagnetic Pulse

Speaker

Young-Maan Cho

#### Results of an S-band Sheet Beam Klystron Development Effort

Speaker

Michael Perkins

#### A Test Stand used to Evaluate a Prototype S-band Sheet Beam Klystron

Speaker

Michael Perkins

### Multi-point Ignition Process in Methane-air Mixtures by Pulsed Microwave Power

Speaker

Mr Cheng Liu

## PARTICLE-IN-CELL CODE INVESTIGATION OF MAGNETIC FIELD EFFECT ON AXIAL VIRCATOR

Speaker

Dr Shen Shou Max Chung

#### The Design Energy Saving Device for RF System at Taiwan Photon Source.

**Speaker** 

Fu-Tsai Chung

#### **Emitter Residual Gas Effects in a High Power Microwave System**

Speaker

Denny Åberg

# Experimental Studies on Cathode Material Dependence of Mirowave Power in Axially-Extracted Vircator with Resonance Cavity

Speaker

Mr Motohiro Teramae

# Modification of Townsend Breakdown Theory for investigating the High-Power Microwave Propagation in the Atmosphere

Speaker

Bao-Liang Qian

#### **Compact Marx Generator and High Power Microwave System**

Speaker

David Barnett

#### 35 kV Inductive Adder for Driving 50 $\Omega$ with Fast Rise Time

Speaker

Mr John Carscadden

### Laser induced plasma for HPM Compressor Switching

Speaker

Dr Jacob Cohen

Periodic Structures Manufactured by 3D Printing for Electron Beam Excitation of High Power Microwave Sources

Speaker

Adrian Cross

4616V4 Tetrode and Klystron RF Resources for CSNS LINAC

Speaker

Wenzhong Zhou

15:00