

## **Session Program**

**17-21 Sept 2017**



## **EUCAS 2017**

### ***Poster : 1EP1 - Circuit Application & System***

Geneva, CIG

# Monday 18 September

13:30

## Poster : 1EP1 - Circuit Application & System

Poster Session | Location: Geneva, CIG

### 1EP1-01 Arrays of stacked SNS Josephson junctions for pulse-driven Josephson voltage standards

**Speaker**

Oliver Kieler

### 1EP1-03 A fast wire-routing method and an automatic layout tool for RSFQ digital circuits considering wire-length matching

**Speaker**

Nobutaka Kito

### 1EP1-04 Logic Design of a 16-bit Bit-Slice Arithmetic Logic Unit for 32-/64-bit RSFQ Microprocessors

**Speaker**

Guang-Ming Tang

### 1EP1-05 Die size requirements versus capability for SFQ SPGAs in multilayer fabrication processes

**Speaker**

Coenrad Fourie

### 1EP1-06 Microarchitectures for energy-efficient computing implemented in adiabatic quantum-flux-parametron logic

**Speaker**

Christopher Ayala

### 1EP1-07 Fabrication and Characterization of NbN-based Magnetic Josephson Junctions

**Speaker**

Li Feng

### 1EP1-08 Superconducting And Cryogenic Environments For Quantum Technologies

**Speaker**

Ziad Melhem

### 1EP1-09 Superconducting and flexible multilayer high density interconnect

**Speaker**

Samuel d'Hollosy

### 1EP1-10 Characterization of Frequency-Dependent Nonlinear Effects in Pulse-Bias Waveform Synthesis

**Speaker**

Christine Donnelly

### 1EP1-11 Inductance Extraction of Superconducting Structures in the Presence of Magnetic Materials

**Speaker**  
Kyle Jackman

**1EP1-12 Design and implementation of AQFP-based register files for an AQFP 4-bit RISC microprocessor prototype**

**Speaker**  
Qiuyun Xu

**1EP1-13 Charge-based superconducting digital logic family using quantum phase-slip junctions**

**Speaker**  
Uday Goteti

**1EP1-14 Parallel Adders for Low-Pass Phase Modulation-Demodulation ADCs**

**Speaker**  
Timur Filippov

**1EP1-15 High-Resolution Characterization of Josephson Junctions and Magnetic Multilayers for Low-Power, Superconducting Logic and Memory Devices**

**Speaker**  
Nancy Missert

**1EP1-16 Timing Characterization and Enabling Static Timing Analysis in Rapid Single Flux Quantum Circuits**

**Speaker**  
Massoud Pedram

**1EP1-17 Superconducting NbTi Flex Cables for High-Density Interconnects**

**Speaker**  
Robin Cantor

15:30