

## **Session Program**

**Nov 15 - 19, 2021**



# **MT27, 27th International Conference on Magnet Technology**

## ***TUE-PO1-513 SMES, Transformers, Wireless Power Transfer***

Fukuoka Convention Center

## Tue, November 16

1:15 PM

### TUE-PO1-513 SMES, Transformers, Wireless Power Transfer

Poster Session | Location: Fukuoka Convention Center

**The research on double pancake coil of 1MJ high temperature superconducting magnet energy storage for the power system of NICA complex**

**Speaker**

Ming Li

**AC Loss Measurement of Double Pancakes Wound with MgB2 Rutherford Type Superconductor**

**Speaker**

Toshihiro Komagome

**Study on Low Loss Coil Structure for High Energy Density of a Wireless Power Transmission System Using High Temperature Superconducting Coils for Railway Vehicle**

**Speaker**

Dr Ryota Inoue

**Study on thermal stability of transformer under external thermal disturbance**

**Speaker**

Binyi Tian

**The influence of SMES magnet operation parameters on voltage distribution characteristic**

**Speaker**

Jing Shi

**[Invited] Preliminary tests 12 T REBCO isolated solenoid magnet used as compact 1 MJ SMES.**

**Speaker**

Julien Vialle

**Optimized configurations for enhancing the interaction capacity between permanent magnet and superconductor coil**

**Speaker**

Mr Wenxin Li

**Current Source Converter Based Photovoltaic Synchronous Generator Incorporated with a SMES**

**Speaker**

Wenyong Guo

**Wind photovoltaic Synchronous Generating System integrating with a SMES for a Grid Forming Renewable Energy System**

**Speaker**

Wenyong Guo

**Basic study on coil structure for high-temperature superconducting cable termination applying a wireless power transmission system****Speaker**

Dr Ryota Inoue

**Design of 10MJ toroidal field D-type superconducting energy storage magnet****Speaker**

Xinyu Zou

**AC loss reduction on a 6.5 MVA/25 kV HTS traction transformer by exploiting asymmetric conductor critical current****Speaker**

Ms Yue Wu

**Design and Simulation of a 150 kVA Single-Phase HTS Transformer with 1G/2G Hybrid HTS Tapes****Speakers**

Wei Pi, Zhaoyu Zhang, Yu Yang, Ziyuan Sun, Ruiqi Wang

**Evaluation of operating characteristics of coils wound with no-insulation REBCO bundle conductor for SMES****Speaker**

Mr Yu Miyamoto

**Investigation of HTS Power Devices Cooled by LN<sub>2</sub>/CF<sub>4</sub> Mixture****Speaker**

Dr Qingquan Qiu

**Design Study of 3 $\phi$ -10 MVA-6.9/1.0 kV REBCO Superconducting Transformers with Lightweight and Current-Limiting Function for an E-aircraft Propulsion System****Speaker**

Masashi Sumida

**Multi-Input, Long-Distance, HTS-Based Wireless Charging System for Undersea Sensor Networks****Speaker**

Mr Xiaoyang Tian

3:15 PM