

## **Session Program**

**Nov 15 - 19, 2021**



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

## ***FRI-OR6-701 Design and Analysis***

Fukuoka Convention Center

# Fri, November 19

7:30 AM

## FRI-OR6-701 Design and Analysis

**Session** | **Location:** Fukuoka Convention Center | **Conveners:** Honghai Song, So Noguchi

07:30 - 07:45

### Quasi-3D Magneto-Thermal Quench Simulation of Superconducting Magnets

**Speaker**

Ms Laura D'Angelo

07:45 - 08:00

### An Optimal Configuration Method of Superconducting Magnet with Iron Shield using Model Order Reduction

**Speaker**

So Noguchi

08:00 - 08:15

### A complete, coupled model for Electro-Magnetic, Electro-Thermal and Mechanical analysis for axi-symmetric coils using variational principles

**Speaker**

Mr Anang Dadhich

08:15 - 08:30

### Multiphysics field topology optimization design of heat conduction structure of high-temperature superconducting magnets

**Speaker**

QING SHAO

08:30 - 08:45

### Evaluation of the screening current effect in an all-superconducting high-field magnet

**Speaker**

Dr XiaoGang Liu

08:45 - 09:00

### Simulation of Quench Transients in Self-Protecting Magnets with a 3D Semi-Implicit Finite-Difference Method

**Speaker**

Dr Emmanuele Ravaioli

09:00 - 09:15

### Modeling stabilizer and superconducting inhomogeneities of commercial REBCO tapes with a 1-D electro-thermal model

**Speaker**

Nicolo' Riva

09:15 - 09:30

### Variable inductance observed in the HTS non-insulation (NI) coils

**Speaker**

Dr Sriharsha Venuturumilli

9:30 AM