

Session Program

Nov 15 - 19, 2021



MT27, 27th International Conference on Magnet Technology

FRI-OR7-502 SMES, Superconducting Transformers, Cables and Bulks

Fukuoka Convention Center

Fri, November 19

10:00 AM

FRI-OR7-502 SMES, Superconducting Transformers, Cables and Bulks

Session | **Location:** Fukuoka Convention Center | **Conveners:** Shinichi Nomura, Kohei Higashikawa

10:00 - 10:15

[Invited] 15% reduction in AC loss of a 3-phase 1 MVA HTS transformer by exploiting asymmetric conductor critical current

Speaker

Zhenan Jiang

10:15 - 10:30

Operation Scenario of Mobile SMES for On-Site Eigenvalue Measurement of Electric Power System

Speaker

Dr Shinichi Nomura

10:30 - 10:45

Development of DC Superconducting Cable with Magnetic Energy Storage Function for Compensating Power Fluctuation from Renewable Energy Sources

Speaker

Kohei Higashikawa

10:45 - 11:00

Development of superconducting magnetic energy storage for the power system of the particle accelerators Booster and Nuclotron of NICA

Speaker

Mikhail Novikov

11:00 - 11:15

[Invited] Portable, desktop high-field magnet systems using bulk high-temperature superconductors

Speaker

Mark Ainslie

11:30 - 11:45

Numerical modeling of the pulse field magnetization of the bulk array used as the field poles of a superconducting machine

Speaker

Mr Antomne Caunes

11:45 - 12:00

Trapped Field Characteristics of K-doped Ba122 Polycrystalline Bulks Synthesized by Spark Plasma Sintering

Speaker

Mr Shinnosuke Tokuta

12:00 PM