

## **Session Program**

**15-19 Nov 2021**



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

### ***THU-OR4-401 Magnets for Medical, Biological, and Analytical Applications***

Fukuoka Convention Center

# Thursday 18 November

16:00

## THU-OR4-401 Magnets for Medical, Biological, and Analytical Applications

**Session** | **Location:** Fukuoka Convention Center | **Conveners:** Enrico Felcini, Yu Suetomi

16:00–16:15 **[Invited] First images of the Iseult Whole Body 11.7 T MRI**

**Speaker**

Dr Lionel Quettier

16:15–16:30

**Study of the Basic Properties of Meter-class REBCO High-Temperature Superconducting Coils for MRI**

**Speaker**

Mr Hideaki Miura

16:30–16:45

**Design of a Curved Superconducting Combined Function Bending Magnet Demonstrator for Hadron Therapy**

**Speaker**

Mikko Karppinen

16:45–17:00

**Mechanical and thermal analysis of an HTS superconducting magnet for an achromatic gantry for proton therapy**

**Speaker**

Jose Luis Rudeiros Fernandez

17:00–17:15

**Preliminary study of 4 T superconducting dipoles for a light rotating gantry for ion-therapy**

**Speaker**

Lucio Rossi

17:15–17:30

**Feasibility Study of GaToroid Gantries for Carbon Ions**

**Speaker**

Dr Enrico Felcini

17:30–17:45

**Development of a persistent-mode 400 MHz (9.39 T) LTS/Bi2223 NMR magnet with a Bi2223 superconducting joint**

**Speaker**

Yasuaki Takeda

17:45–18:00

**First NMR Relaxometry using Outer Field of Single-sided HTS Bulk Magnet activated by Pulsed Field**

**Speaker**

Dr Masato Takahashi

18:00