

## Session Program

1-6 Jul 2025



## MT29 Abstracts and Technical Program

### ***Fri-Af-Po.06 - High Field HTS Solenoids***

Omni Boston Hotel at the Seaport  
450 Summer Street Boston, MA 02210

## Friday 4 July

14:00

### Fri-Af-Po.06 - High Field HTS Solenoids

**Poster Session** | **Location:** Ensemble Ballroom, Level 2 | **Conveners:** Nicholas Tsoupas, Gianmarco Bovone

#### **Fri-Af-Po.06-03: Graded parallel-wound coil technique for highly compact HTS magnet.**

**Speaker**

Dr Yawei Wang

#### **Fri-Af-Po.06-02: Review on the technology and application of all-superconducting high-field magnet**

**Speaker**

Chao Zhou

#### **Fri-Af-Po.06-04: Detailed manufacturing design of REBCO insert and cooling performance of 33T Cryogen-Free Superconducting Magnet**

**Speaker**

Hayato Nezuka

#### **Fri-Af-Po.06-05: Temperature stability of 25-T cryogen-free superconducting magnet during initial and subsequent ramping**

**Speaker**

Dr Kohki Takahashi

#### **Fri-Af-Po.06-06: Feasibility study of low-inductance high-field solenoid magnets using CORC® conductors**

**Speaker**

Yufan Yan

#### **Fri-Af-Po.06-07: Optimization design and mechanical analysis of a 5 T iron-based superconducting insert coil for high field application**

**Speaker**

Hangwei Ding

#### **Fri-Af-Po.06-08: Experimental Study on Innovative Methods to Improve Electromechanical Performance in Insert HTS Coil**

**Speakers**

Xinxing Qian, Mr You Zhou, Zhaofer Jiang, Zhen Fang

#### **Fri-Af-Po.06-01: Progress report and future plans for a 20 T, 50 mm room temperature bore high-homogeneity all-HTS magnet with conduction-cooled system**

**Speaker**

Dr Woosung Lee

16:00