



Contribution ID: 397

Type: **Poster**

## **M1Po3C-04: Researches on Superconducting Magnetic Drivers**

*Monday 19 May 2025 14:00 (2 hours)*

Magnetic drive is a technology that utilizes magnetic force to achieve non-contact driving, which has advantages such as high efficiency, reliability, and environmental protection. It can meet the needs of different working conditions and has important application prospects. In this presentation, we conduct researches on magnetic drivers based on superconducting materials, explain the principle and structure of the superconducting magnetic drivers, simulate and optimize its design, develop a prototype of the superconducting magnetic drivers. A testing platform for superconducting magnetic drivers is built, and the performance tests on the developed magnetic drivers are conducted.

**Author:** ZHANG, Guomin (Institute of Electrical Engineering, Chinese Academy of Sciences)

**Presenter:** ZHANG, Guomin (Institute of Electrical Engineering, Chinese Academy of Sciences)

**Session Classification:** M1Po3C - Magnet Design and Applications I