



Contribution ID: 379

Type: **Poster**

## Research and Analysis on Electrical Performance of EAST Cryogenic Axial Insulation Breaks

*Wednesday 7 June 2017 13:40 (2 hours)*

**Abstract:** The cryogenic axial insulation breaks (IBs) are key components of the superconducting magnet system for the EAST device, which play an important role of the liquid nitrogen and liquid helium insulation channel. In order to ensure the safe operation of the IBs during the working life of the EAST device, experimental research and analysis on electrical performance should be carried out, including structural analysis, partial discharge test, direct current high voltage test in helium pressure and impulse test.

**Keywords:** Axial insulation breaks; Structural analysis; Partial discharge; Impulse.

### Eligible for student paper award?

No

**Author:** Mr WU, Cheng

**Presenter:** Mr WU, Cheng

**Session Classification:** W.POS: Poster Session W

**Track Classification:** Magnets