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## **P4.088 AC loss and stability analysis of EAST superconducting magnet in ELM triggering**

*Thursday, 20 September 2018 11:00 (2 hours)*

The ELM triggering with H-mode will cause energy loss of plasma in Tokamak device. The phenomenon results in the timely response of control system and motivates the rapid variation of current in PF coils which affects the AC loss and stability of superconducting magnet. The cryogenic parameters of the superconducting magnet will be analyzed according to the EAST experimental data for recent years in this paper. The AC loss of superconducting magnet in ELM triggering will be acquired to determine the stability margin in operation temperature.

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