## Accepted Manuscript

Investigation of the Voltage-Current Hysteresis Behavior for a High-Temperature Superconducting Magnet in Laboratory Scale

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PII:S0577-9073(17)30487-2DOI:10.1016/j.cjph.2017.12.013Reference:CJPH 414



To appear in: *Chinese Journal of Physics* 

Received date:24 April 2017Revised date:9 December 2017Accepted date:10 December 2017

Please cite this article as: N. Abdollahi, J. Mahmoodi, M. Abdollahi, A.H. Ghorashi, N. Alinejad, Investigation of the Voltage-Current Hysteresis Behavior for a High-Temperature Superconducting Magnet in Laboratory Scale, *Chinese Journal of Physics* (2018), doi: 10.1016/j.cjph.2017.12.013

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## Highlights

- An equivalent electrical circuit is represented for response of a HTS system for arbitrary current ramp.
- The magnetic hysteresis loop for the ramp up-down current is obtained.
- In this model the behavior of the voltage versus current is in good agreement with considered theory.

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