TH/P1-13 Summary Slide

Active control/stabilization of locked mode in tokamaks at high magnetic Reynolds number

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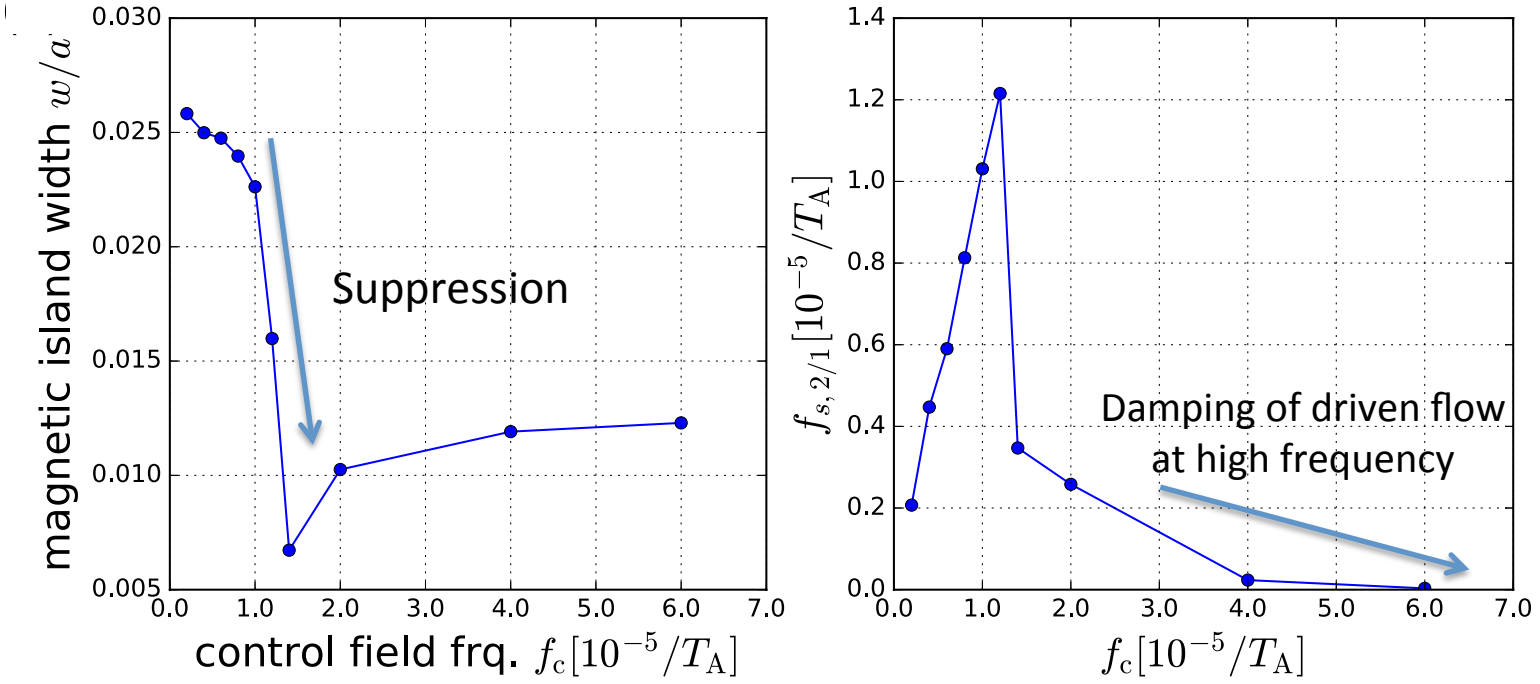

- We developed the resistive MHD simulation code “AEOLUS-IT”, which can simulate mode locking, where the magnetic island interacts with error/control field, under JT-60SA class high magnetic Reynolds number condition.
- The developed code successfully simulates the stabilization effect of the control field against the error field, which reveals a frequency dependence of the control field for suppressing the island evolution.