

JOURNAL OF PLASMA AND FUSION RESEARCH

The Journal of the Japan Society of Plasma Science and Nuclear Fusion Research

Vol. 97, No. 7, July 2021

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Nonlinear MHD of the J-TEXT tokamak with an external stellarator field considered with the MIPS code. The results of nonlinear MHD simulations with low- q configuration are shown in the left column, and the case with the external stellarator field with $l = 2$ and $n = 2$ is shown in the right column. The stellarator field produces the helical magnetic field of $\iota_{coil}/\iota_0 \sim 0.1$ at the plasma boundary. It can be seen that the $m = 2$ mode is suppressed on the $q = 2$ rational surface when the stellarator field is superposed. Therefore, the hybrid operation of tokamak and stellarator is effective for low- q operation. (Jie HUANG *et al.*, Plasma and Fusion Research, Vol. 16, 2403047 (2021) <http://www.jspf.or.jp/>)



Published Monthly by

The Japan Society of Plasma Science and Nuclear Fusion Research

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