

# JOURNAL OF PLASMA AND FUSION RESEARCH

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

*Vol. 98, No. 2, February 2022*

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Advanced-Fuel Fusion Research -Current Status and Development-

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Controlling chaos in plasma. The figure shows the process of controlling the chaotic oscillations observed in the ionization waves to periodic oscillations based on the time delayed-feedback method. Time series, power spectrum, and orbit reconstructed in phase space, which correspond to the system before and in the process of control, are shown. From them, it can be seen that the system in chaotic state (control off) is periodically stabilized (control on).

(Takao FUKUYAMA and Naoki NISHIDA, Plasma and Fusion Research, Vol. 17, 1201002 (2022) <http://www.jspf.or.jp/>)



Published Monthly by

The Japan Society of Plasma Science and Nuclear Fusion Research

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