

JOURNAL OF PLASMA AND FUSION RESEARCH

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

Vol. 99, No. 1, January 2023

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A solitary vortex excitation/damping process in nonlinear solitary wave interacting with zonal flow was identified in a linear magnetized plasma. Figures (a)-(d) show the spatio-temporal evolution of the ion saturation current detected using azimuthal probe array. Figure (e) shows a plasma frame of Fig.(a) along the propagation of the nonlinear solitary wave (triangular wave). The excitation of the solitary vortex (red dotted ellipse) is synchronized with the zonal flow (~ 0.4 kHz). Figure (f) shows the cross-sectional image when the solitary vortex is excited.

(Hiroyuki ARAKAWA *et al.*, Plasma and Fusion Research, Vol. 17, 1301106 (2022) <http://www.jspf.or.jp/>)



Published Monthly by

The Japan Society of Plasma Science and Nuclear Fusion Research

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