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Physical Modeling and Simulation Using Neural Networks

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Saloon

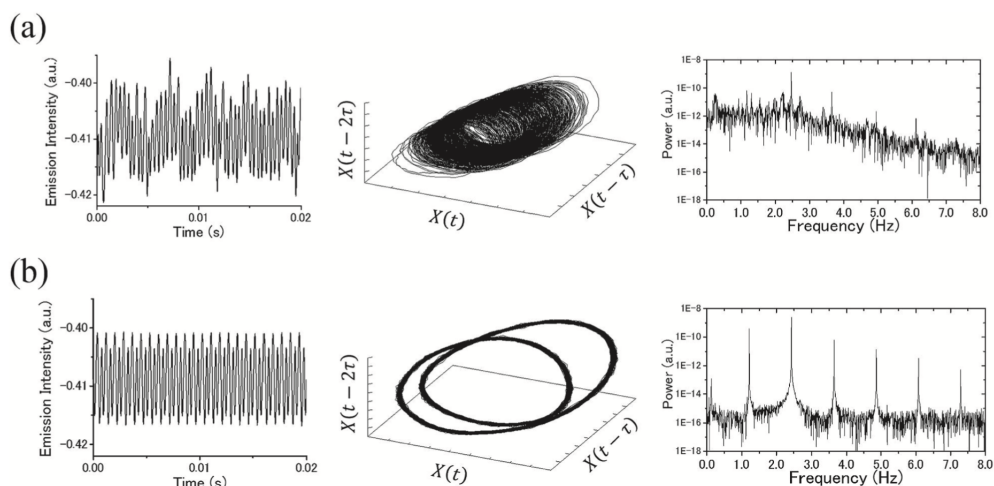
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Periodization of chaotic oscillations caused by an external force. The figure illustrates chaotic oscillations observed in ionization waves within a plasma transitioning into periodic oscillations upon application of a square-wave external force. The time evolution of emission intensity from the ionization waves was measured as time-series data. The transition from chaotic to periodic state can be confirmed from the time series, reconstructed trajectories in phase space, and the power spectrum. (Hiroto MIYOSHI *et al.*, Plasma and Fusion Research, Vol. 21, 1401012 (2026) <https://www.jspf.or.jp/>)