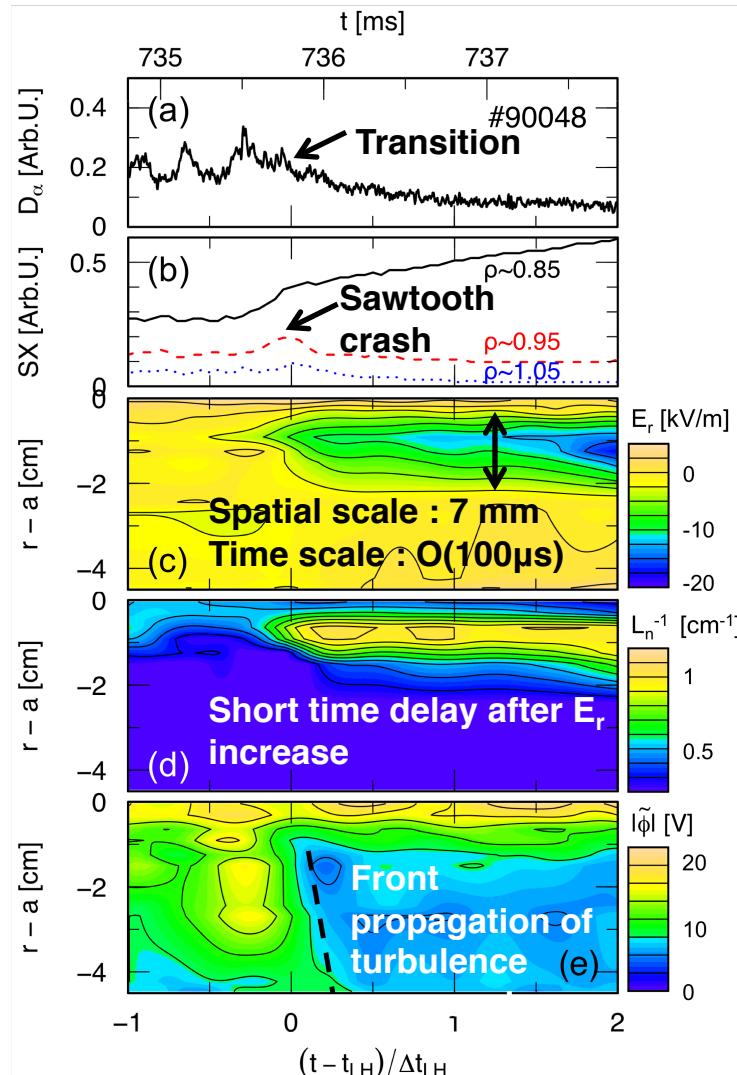


Edge plasma dynamics during L-H transition in the JFT-2M tokamak

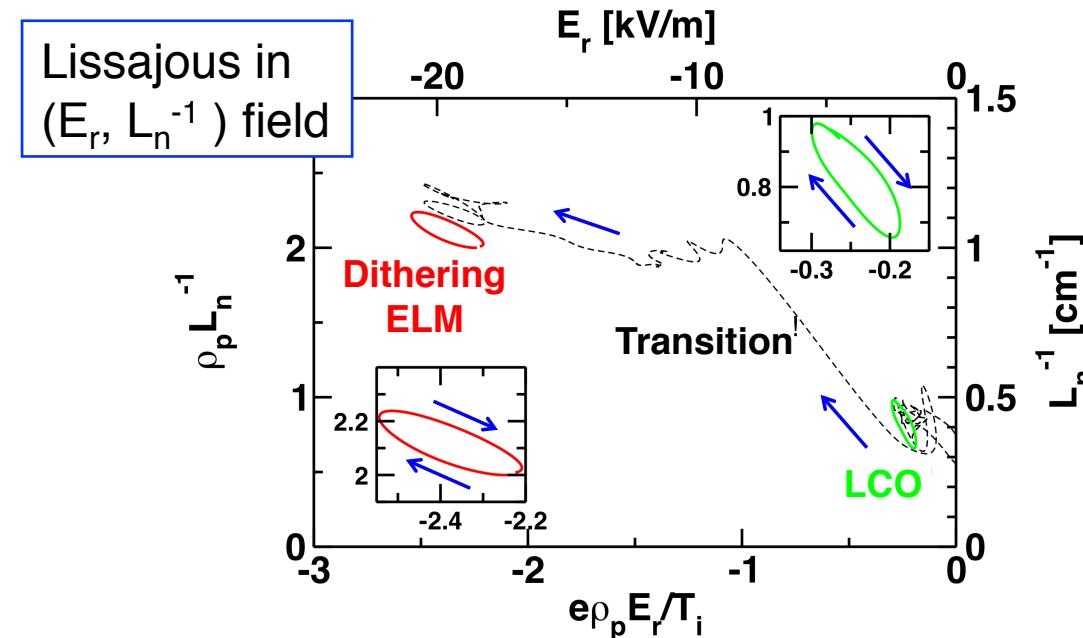
T. Kobayashi (NIFS, National Institute for Fusion Science)



- ✓ Using heavy ion beam probe, spatiotemporal evolutions of E_r , L_n^{-1} and $|\tilde{J}_\phi|$ are measured.

- ✓ Three kinds of transition dynamics:

- ① Limit-cycle oscillation (LCO), ② L-H transition,
③ dithering ELM.



Similar phase relation in the LCO, L-H transition and dithering ELM.

Large jump of $e\rho_p E_r / T_i \sim 1$ can trigger the L-H \leftrightarrow Small $e\rho_p E_r / T_i$ in the LCO or dithering ELM just oscillates the transport barrier.