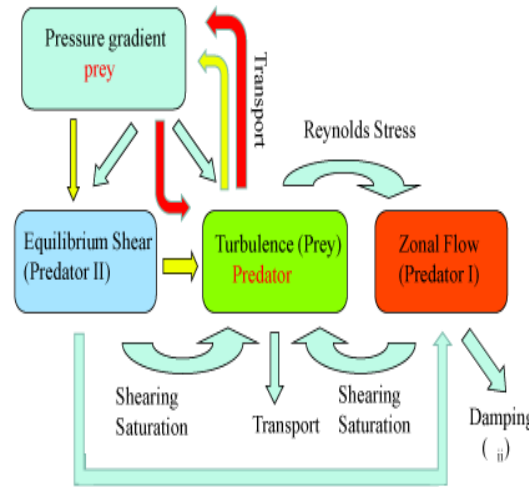
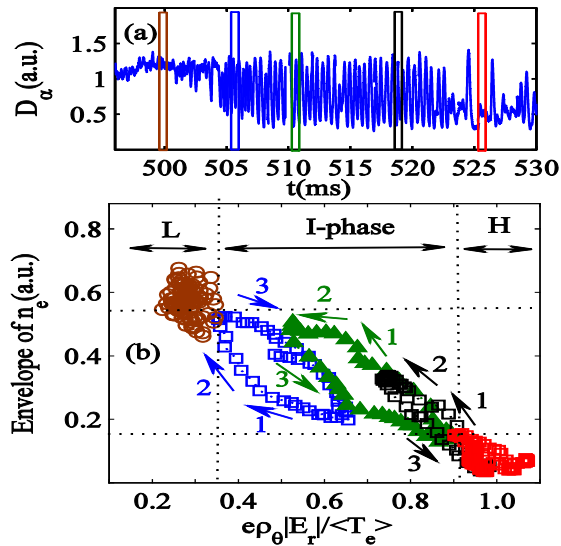
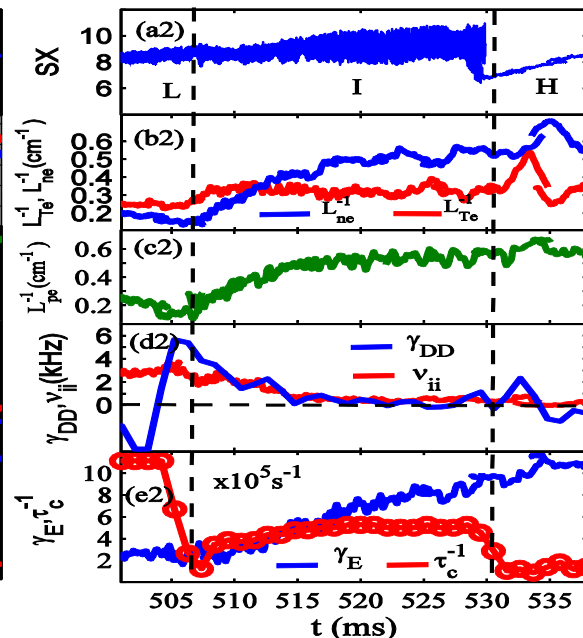
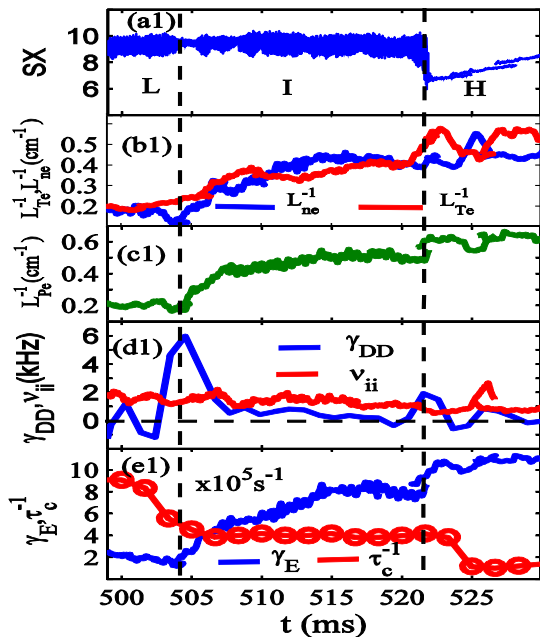


LCOs in L-I-H transitions and physics model



(Left) The evolution of D_{α} emission (a) and the Lissajous diagram in the phase space of $e\rho_{\theta}|E_r|/T_e$ and envelope of density fluctuations (b). (Right) Sketch of the three plausible loops for the two types of LCOs and I-H transition.



The time evolutions of soft X-ray (a), inverses of the scale lengths of gradients of electron temperature $1/L_{te}$ and density $1/L_{ne}$ (b), and pressure $1/L_{pe}$ (c), the ion-ion collision frequency ν_{ii} , growth rate of the diamagnetic drift flow γ_{DD} (d), the $E \times B$ flow shearing rate $\gamma_{E \times B}$ and the decorrelation rate of the turbulence $1/\tau_c$ (e) for two shots.