

# Multiple turbulent plasma states in the H-mode transition on JT-60U

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Multiple turbulent plasma states in the edge transport barriers (ETBs) formation are studied on JT-60U. Following a slow transition, which causes significant reduction in the ion thermal transport in the pedestal towards the neoclassical level with a weak negative  $E_r$  value, we found a clear and fast changes in the particle transport in association with the change in the  $E_r$  towards a strong negative value at the later H-phase. This observation suggests the existence of multiple types of turbulent fluctuations in the H-mode plasma state, which affects the ion energy and other channels of transport differently.

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