

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

*Wednesday 24 October 2018 08:30 (4 hours)*

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.

## Country or International Organization

Japan

## Paper Number

EX/P3-4

**Author:** Dr KAMIYA, Kensaku (QST, Naka)

**Co-authors:** Dr ISAYAMA, Akihiko (National Institutes for Quantum and Radiological Science and Technology); Prof. ITOH, Kimitaka (Institute of Science and Technology Research, Chubu University); Dr HONDA, Mitsuru (QST, Naka); Dr OYAMA, Naoyuki (National Institutes for Quantum and Radiological Science and Technology); Prof. ITOH, Sanae (Research Center for Plasma Turbulence, Kyushu University)

**Presenter:** Dr KAMIYA, Kensaku (QST, Naka)

**Session Classification:** P3 Posters