

Abstract Submitted
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Pedestal turbulence simulations using GENE¹ XING LIU, M. KOTSCHENREUTHER, D. R. HATCH, L. J. ZHENG, S. MAHAJAN, Univ of Texas, Austin, A. DIALLO, PPPL, R. J. GROEBNER, GA, A. E. HUBBARD, J. W. HUGHES, MIT, C. F. MAGGI, S. SAARELMA, JET CONTRIBUTORS², CCFE — We match frequencies, power balance, and other transport characteristics of several pedestals-two DIII-D ELMy H-modes and a C-Mod I-mode, and attempt this for a C-Mod ELMy H-mode. Observed quasi-coherent fluctuations (QCFs) on the DIII-D shots are identified as MTMs. The MTMs match frequency and power balance (with slight adjustment of temperature profile), and cause low transport in the density, ion heat and impurity channels- consistent with observed inter-ELM evolution of ion and electron temperature, electron and impurity density, or transport analysis of those channels. KBM can be ruled out as the dominant agent for heat transport. We find the Weakly Coherent Mode on C-Mod I-mode may be an electrostatic heavy particle/ITG mode. Analysis is ongoing for the C-Mod ELMy H-mode QCF. Pedestal density profiles in JET-ILW are consistent with ITG induced particle pinch.

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