

# EXS/P6 Impact of the JET ITER-like wall on H-mode plasma fueling



- In contrast to JET-C, metallic devices as the JET-ILW exhibit a complex picture of the recycling process in ELMy H-mode discharges.
- Outgassing by surface temperature dependent desorption of particles near the strike-points on the bulk-W/W-coated CFC PFCs as well as from Be co-deposits in localized areas do lead to an inhomogeneous poloidal fueling profile evolving in time.
- It is difficult to disentangle the origin of a secondary recycling flux peak occurring a few ms after the ELM burst as several processes happen at the same time on overlapping time-scales: outgassing from bulk-W/W-coated CFC (~8ms) as well as from Be co-deposits on top of the HFS baffle (~6ms).
- A direct and time-dependent measurement of the plasma and neutral flows in the SOL is not possible in JET. The full data is taken to derive numerically the poloidal ionization and fueling profiles (in 2D) by using the SOLPS-ITER code package to compare the H-mode fueling efficiency between JET-ILW and JET-C.

