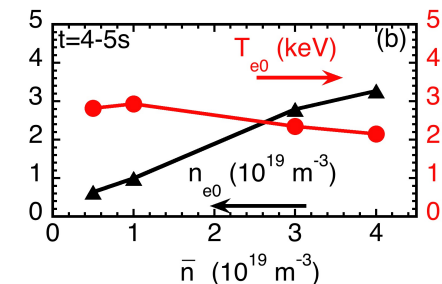
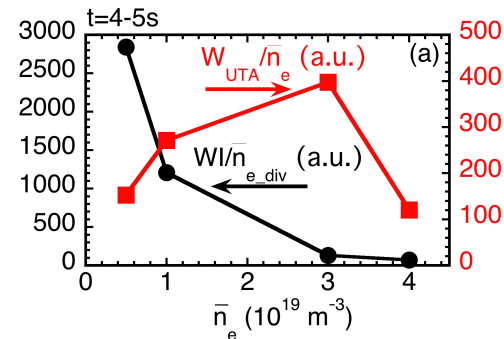
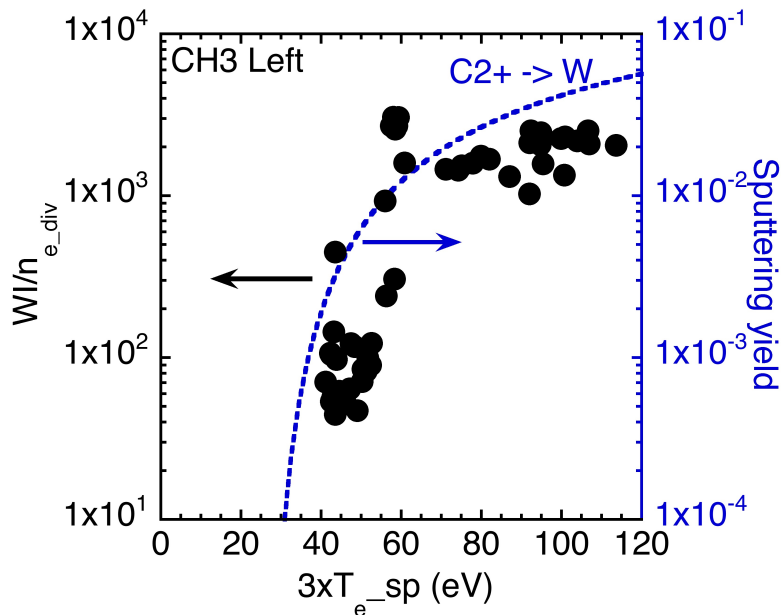
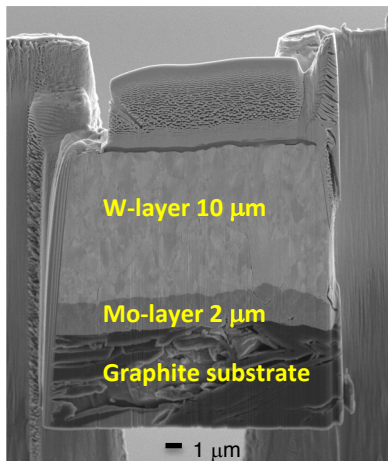


Effects of partially installed tungsten coated divertor tiles on the LHD plasma and plasma-wall interactions

EX/P6-22

Gen Motojima et al.

Behavior of tungsten (W) by the sputtering of partially installed W-coated divertor tiles was investigated under the condition graphite divertor is dominant.



- ✓ W-coating on the graphite divertor tiles was partially applied.
- ✓ The thickness of W-layer is 10 mm and the thickness of Mo-layer is 2 mm.

- ✓ The divertor visible spectroscopy shows the neutral W emission from sputtered W divertor tiles in divertor region.
- ✓ Carbon impurities could be a cause for the sputtering of W.

- ✓ UTA intensity ($W^{24+} \sim W^{29+}$, 50-51Å) by EUV spectroscopy is maximum at $3x10^{19} \text{ m}^{-3}$, and the intensity decreases with further high density. \rightarrow suggesting in the change of the transport of W.