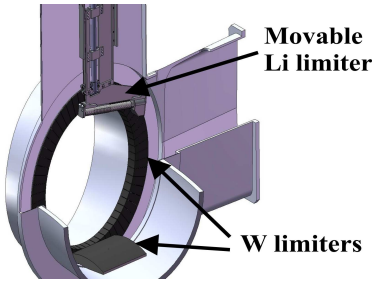
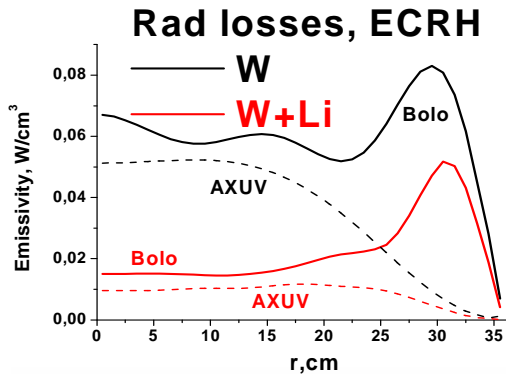


# Review of Recent Experiments on the T-10 Tokamak with All Metal Wall

OV/4-5

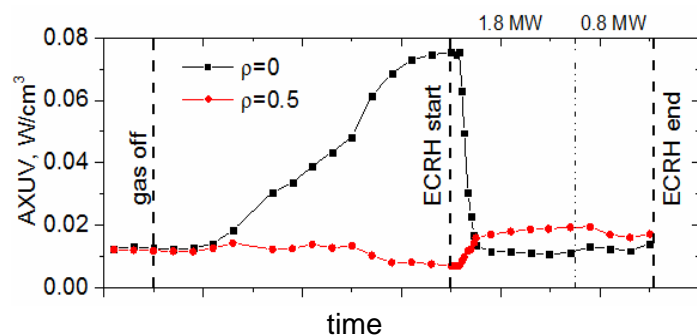
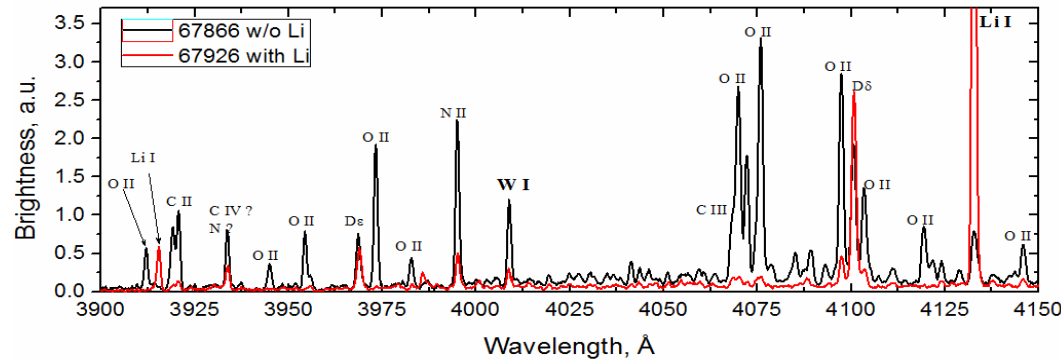


Graphite limiters replaced with tungsten ones. For the first time on a tokamak possibility of W protection and core accumulation prevention with lithium was studied in OH and ECRH regimes.

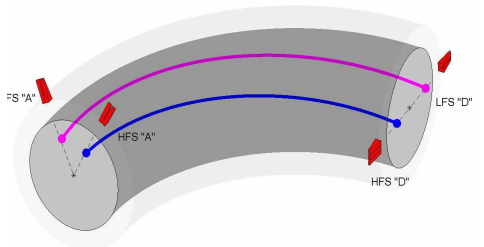
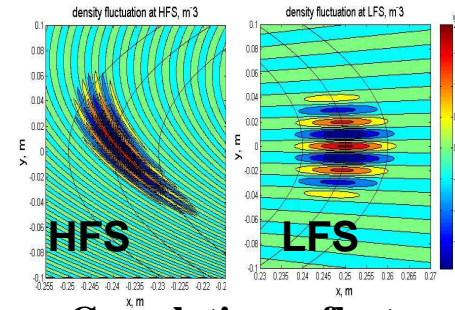


With Li:

- W core density falls >10 times, W influx 3-5 times.
- Drastic drop of light impurities in plasma observed.
- Low Li penetration into bulk plasma found:  $n_{Li^{3+}}(0)/n_e(0) \sim 0.5\%$ .



Prevention of W accumulation with central ECRH demonstrated [M.R. Nurgaliev et al., **EX/P8-36**].



**Correlation reflectometry:**

- Modeling showed that decrease of  $n_e$  fluctuations on HFS partially may be caused by reflectometry nonlocality and change of fluctuation elongation direction under magnetic shear.
- Toroidal correlations of  $n_e$  fluctuations at distance 2.5 m along field lines investigated.



Effect of plasma exposition on limiter plates of ITER-grade tungsten studied.