

**Aim: Help ITER reach decision on material for first divertor**

**Special W lamella edge melted by ELMs:**

- ELMs: 0.3MJ, 30Hz,  $q_{||peak} \sim 3\text{GWm}^{-2}$
- A few droplets  $\sim 0.1\text{mm}$  ejected  
 $\Rightarrow$  Small plasma impact & no disruptions
- Erosion  $\sim 150\text{-}300\mu\text{m}$  per 1.5s exposure
- MEMOS code fits melt motion: TH/P3-40  
 $\Rightarrow$  Driven by  $J \times B$  force (thermo mission)

**Experiment planned for 2015**

- ELM melt with  $\sim 15^\circ$  angle of incidence  
 $\Rightarrow$  more ITER-like geometry
- Direct measure of surface temperature

All H-modes at 3MA,  $\sim 24\text{MW}$   
 LFS HFS

