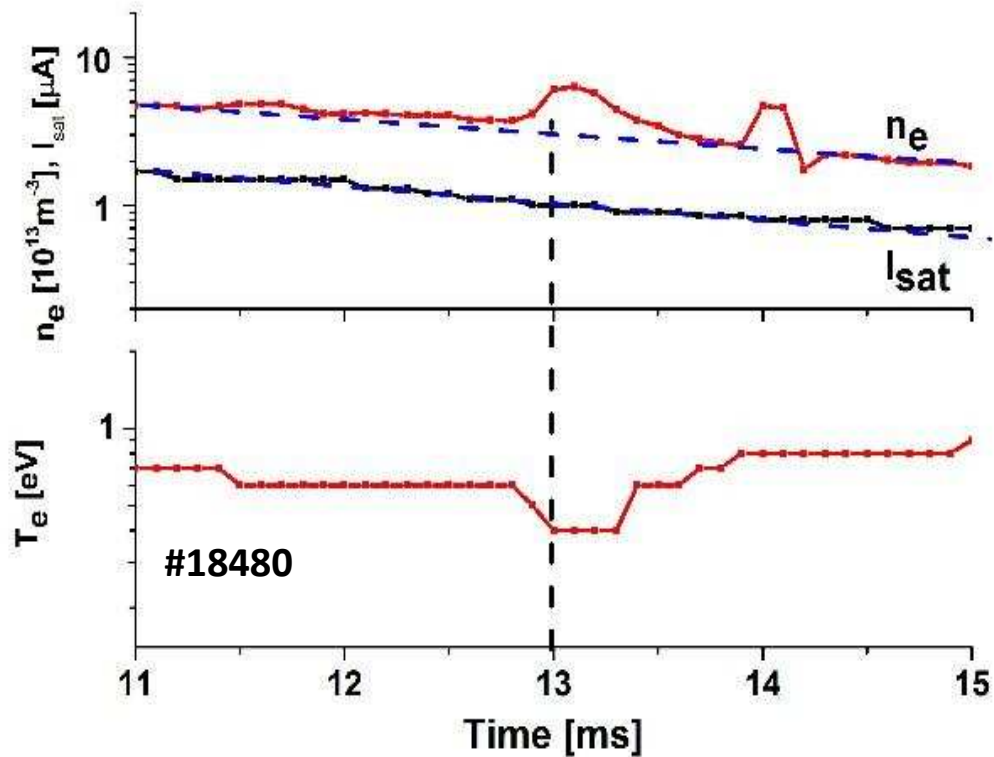


Probe measurements in microwave plasma – 2

B_{tor} is still on, but MW power switched off



Evolution of the electron density and temperature during MW plasma decay in toroidal magnetic field

- n_e decays with a characteristic time constant 7,4 ms
- T_e is constant, remaining at < 1 eV

-> Low temperature plasma can be confined in toroidal magnetic field for a relatively long time (in the range of 1 -10 ms), if the electron temperature is sufficiently low.

-> Particle losses due to the centrifugal and $\mathbf{B} \times \mathbf{grad} \mathbf{B}$ losses in inhomogeneous magnetic field are reasonably low in this case