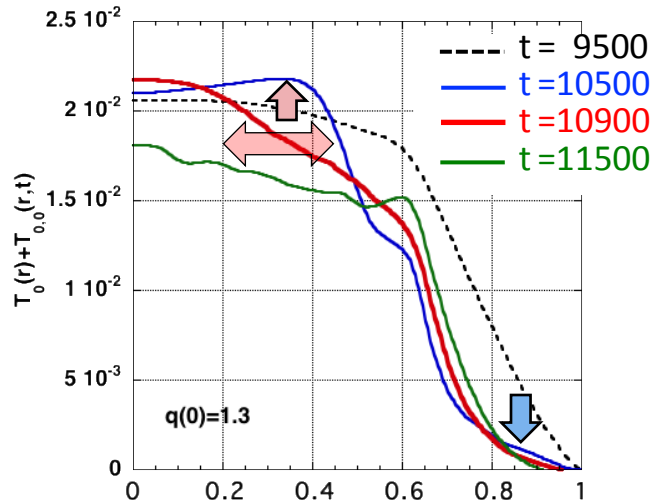
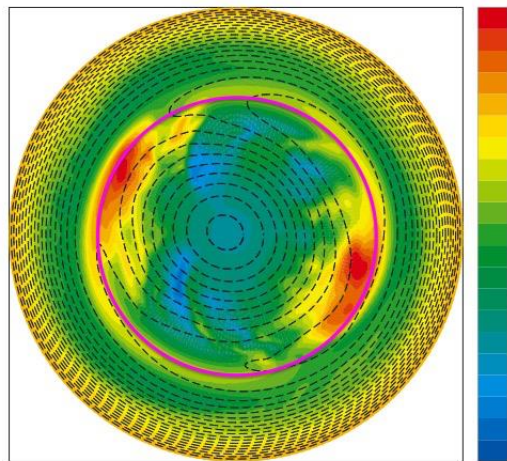


# TH/P3-21: Nonlocal Plasma Response to Edge Perturbation in Tokamak

by M. Yagi *et al*



Time evolution of mean electron temperature (in poloidal Alfvén time unit).



Contour Plot of Fluctuating Electron Temperature at  $t = 10900$ .

Nonlocal response of electron temperature fluctuation is investigated using 5-field RMHD model.

Density source and cooling sink are introduced into density and electron temperature evolution equations, respectively.

After density source and cooling sink are turned on near the edge ( $t = 9500$ )  $\downarrow$ , the mean electron temperature increases at the central region  $\uparrow$ .

The profile relaxation occurs after density source and cooling sink are turned off ( $t = 10500$ ). Meso-scale mode (*streamer*) plays a role for profile relaxation ( $t = 10900$ )  $\leftarrow$ .