Study of detached plasma profile in the divertor simulation experimental module of GAMMA 10/PDX

M. Yoshikawa, et al., Univ. Tsukuba

We successfully measured the core and edge plasma electron temperature and density, simultaneously, and obtained the axial density and temperature profiles in the detached plasma experiments.

We clearly observed the ionization region in the detached plasma for the first time in GAMMA 10/PDX. It is useful to study more detail of the ionization region behaviour in the detached plasma.