

How to approach to the transport parameter of electrons
in a low-temperature collisional plasma subject to time-varying field?

Toshiaki Makabe (Keio University)

The topic is old and new issue hidden in a numerical simulation of a time-varying low-temperature collisional plasma on the basis of fluid equations. The driving frequency of the external power is distributed from 10^2 KHz to 10^2 GHz at pressures mTorr – 760 Torr. In this workshop, we will try to understand the present stage of the transport parameter of electrons under the external reduced field from the viewpoint of the time constant in the collisional plasma.