

INFLUENCE OF THE ION TEMPERATURE
ANISOTROPY ON THE RELAXATION PROCESSES
IN A MAGNETIZED PLASMA

V.N. Pavlenko, V.G. Panchenko, S.I. Vykhodets

Institute for Nuclear Researches,
Nat. Acad. Sci. of Ukraine
(47, Nauky Prosp., Kyiv 03028, Ukraine)

S u m m a r y

The processes of temperature relaxation under conditions of the parametric excitation of an ion-cyclotron wave by the lower-hybrid (LH) pump in a magnetized plasma with the ion temperature anisotropy have been considered. The inverse relaxation time in the region above the instability threshold has been calculated, as well as its dependences on the amplitude of the electromagnetic field and the ion temperature anisotropy. The results derived are useful for plasma diagnostics.