

DRIFT ION ACOUSTIC WAVES AND THEIR SYMMETRIES

V. B. Taranov

Institute for Nuclear Research, National Academy of Sciences of Ukraine, Kyiv

3D model for the coupled drift and ion acoustic waves is considered. Symmetries of the model are found in the presence of the magnetic shear as well as in the shearless case. Some of the most symmetric solutions, exact and perturbative, are presented. In particular, solutions describing zonal flow generation by initially monochromatic waves are obtained.