

DRIFT AND ION-ACOUSTIC
WAVES IN MAGNETIZED PLASMAS,
SYMMETRIES, AND INVARIANT SOLUTIONS

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S u m m a r y

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