

Stationary convection due to resistivity, viscosity, and thermal conductivity in a cylindrical plasma

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The stability of a current-carrying cylindrical plasma is studied by using the nonideal magnetohydrodynamic equations in a shearless magnetic field. It is shown that for each m mode there are four marginal stationary states which, under some conditions, give rise to large scale stationary convection when nonlinear effects are taken into account. © 1984 American Institute of Physics.