Convective flow and the most dangerous perturbation
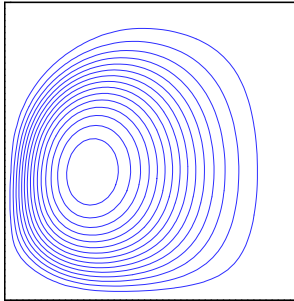
Parabolic heating from the side

Effect of axial magnetic field
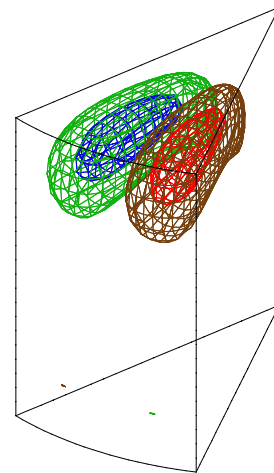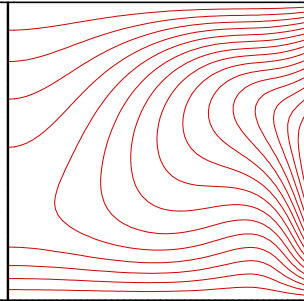
$A = H/R = 1,\ Pr = 0.015,\ Ha = 20,\ Gr = 3,237,000,\ k = 10$
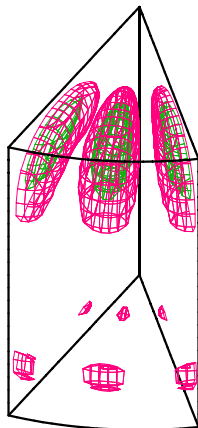
Perurbation of temperature

streamlines   isotherms
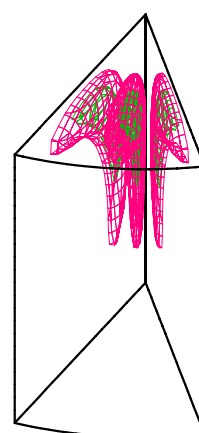
Perurbations of vector potential of velocity

Ψ_r Ψ_z