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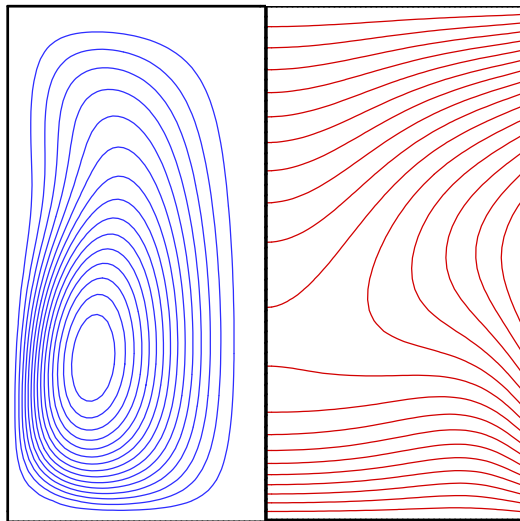
Parabolic heating from the side

Effect of axial magnetic field
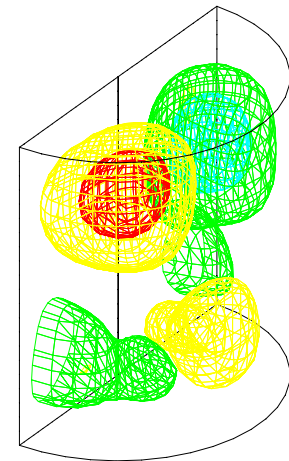
$A = H/R = 2,\ Pr = 0.015,\ Ha = 10,\ Gr = 347{,}000,\ k = 2$

streamlines   isotherms

Perurbation of temperature

Perurbations of vector potential of velocity

Ψ_r

Ψ_z