

Figure 1: Half a period of oscillation in the case $\eta=0.65, P=1, \tau=2000, R_e=100000, P_m=5, \beta=0$ with stress-free velocity boundary condition at $r=r_o$ and no-slip at $r=r_i$. The left column shows contour lines of B_r at r=1 and the right column shows contour lines of $-\frac{\partial g}{\partial \theta}$ at r=0.9. The time interval between the snapshots is 0.0308.

Remarks:

e065p1t2r100000m1p4mvbcFD

Phase shift between poloidal and toroidal components of the magnetic field. m=2