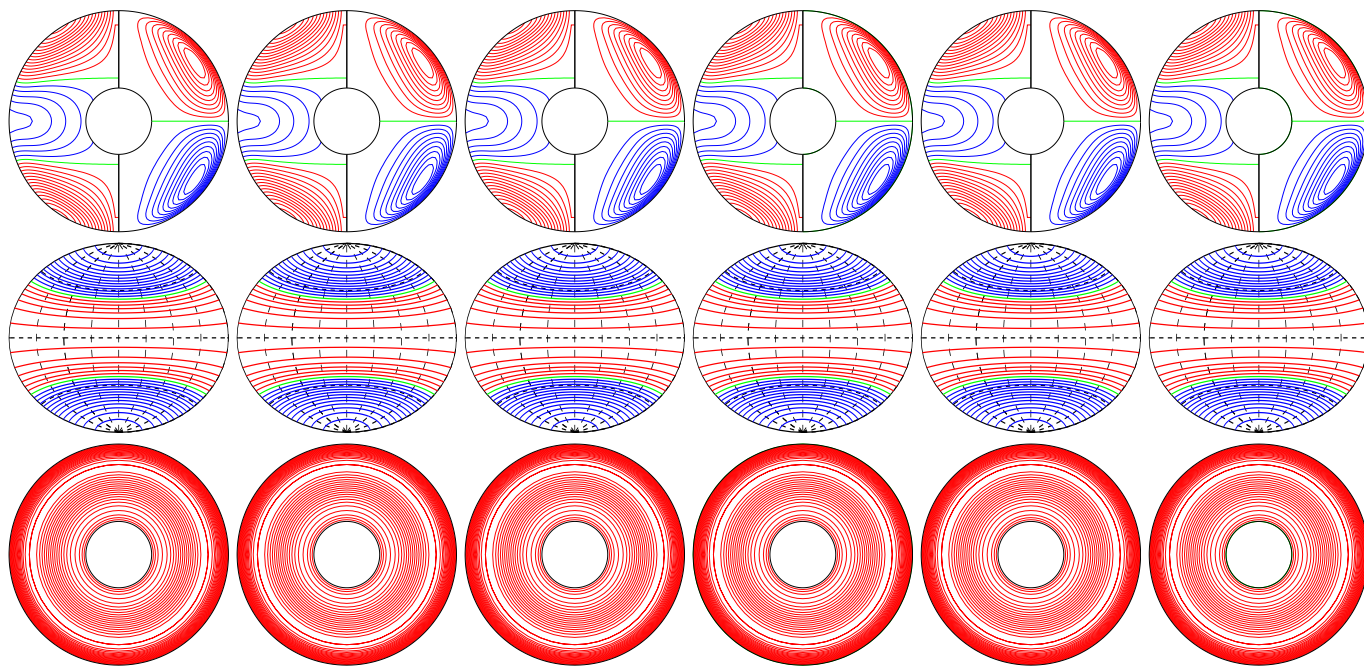
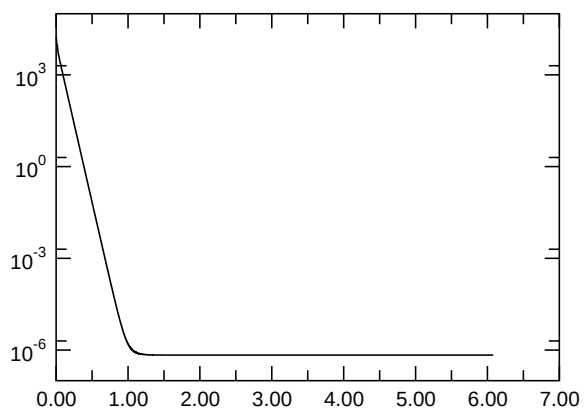


a.e03p1t03r-50000m16n2N2z1.0e0Y.20
times: 4.480013 4.800014 5.120015 5.440016 5.760017 6.080018

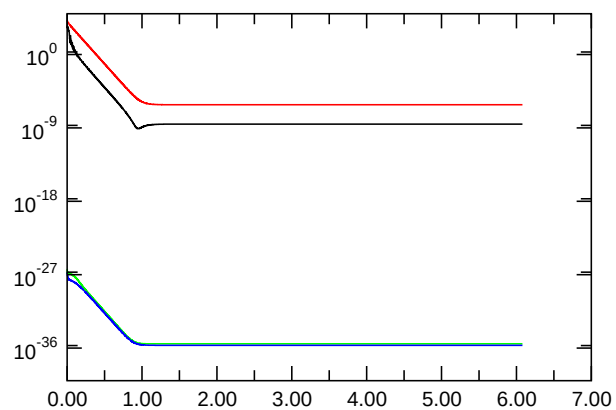
April 1, 2016



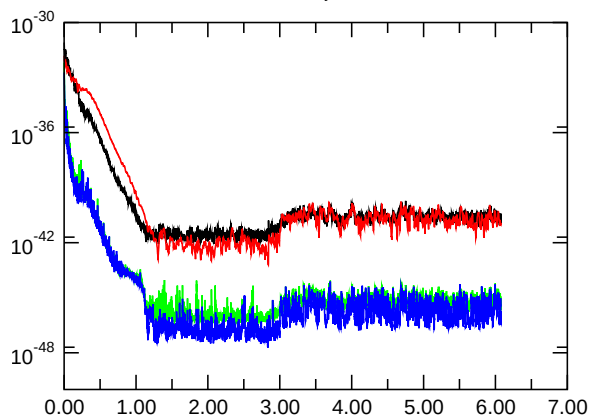
a.e03p1t03r-50000m16n2N2z1.0e0Y
 E_{kin}



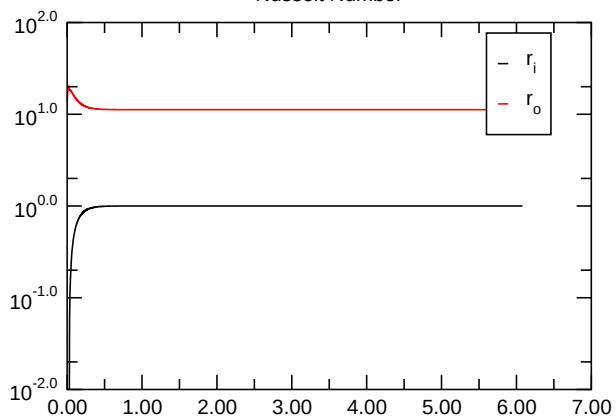
$E_{\text{kin,symm.}}$



$E_{\text{kin,asymm.}}$

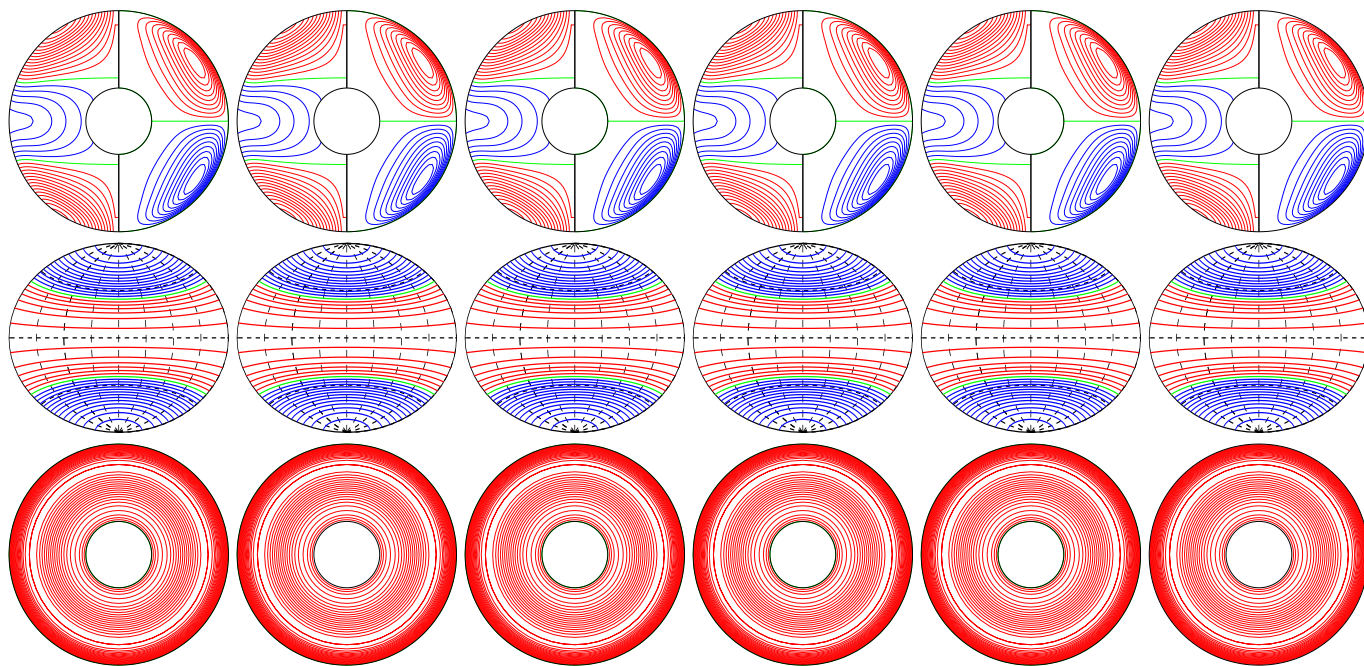


Nusselt Number

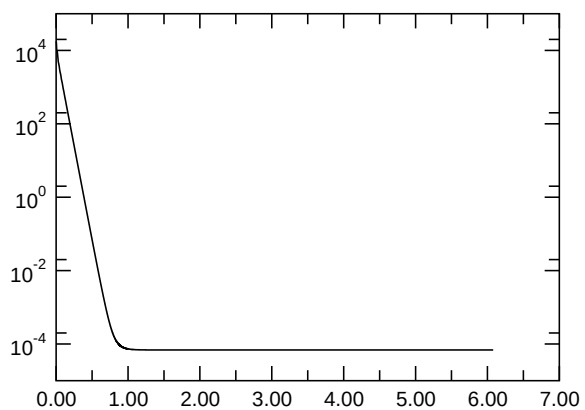


a.e03p1t03r-50000m16n2N2z1.0e1Y.20
times: 4.480013 4.800014 5.120015 5.440016 5.760017 6.080018

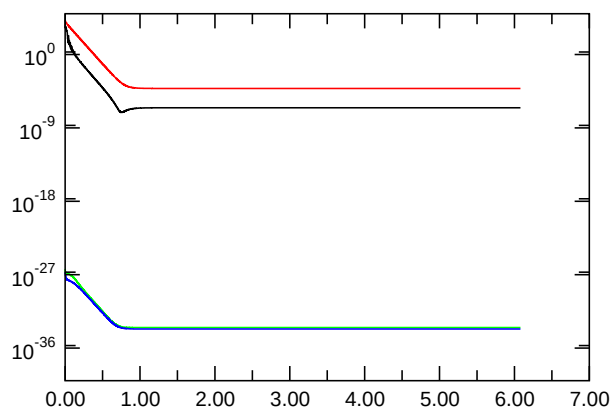
April 1, 2016



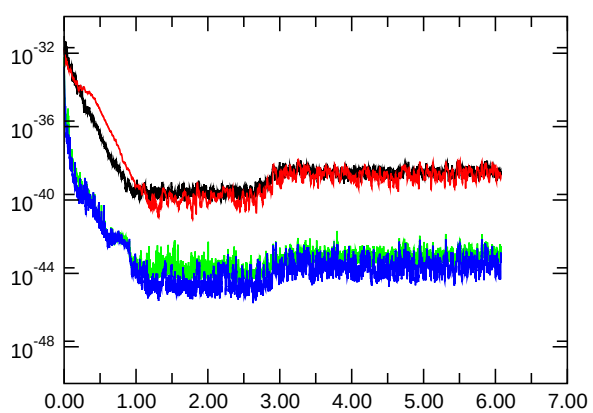
a.e03p1t03r-50000m16n2N2z1.0e1Y
 E_{kin}



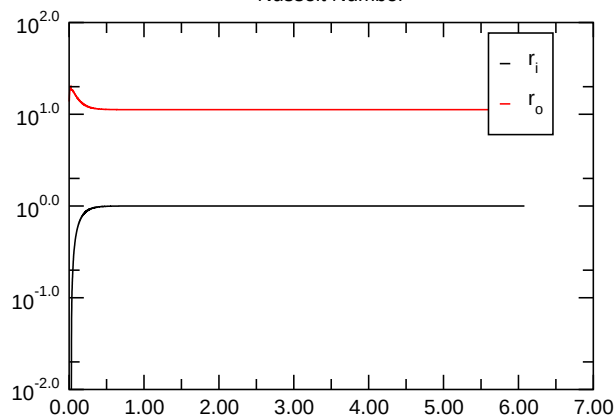
$E_{\text{kin,symm.}}$



$E_{\text{kin,asymm.}}$

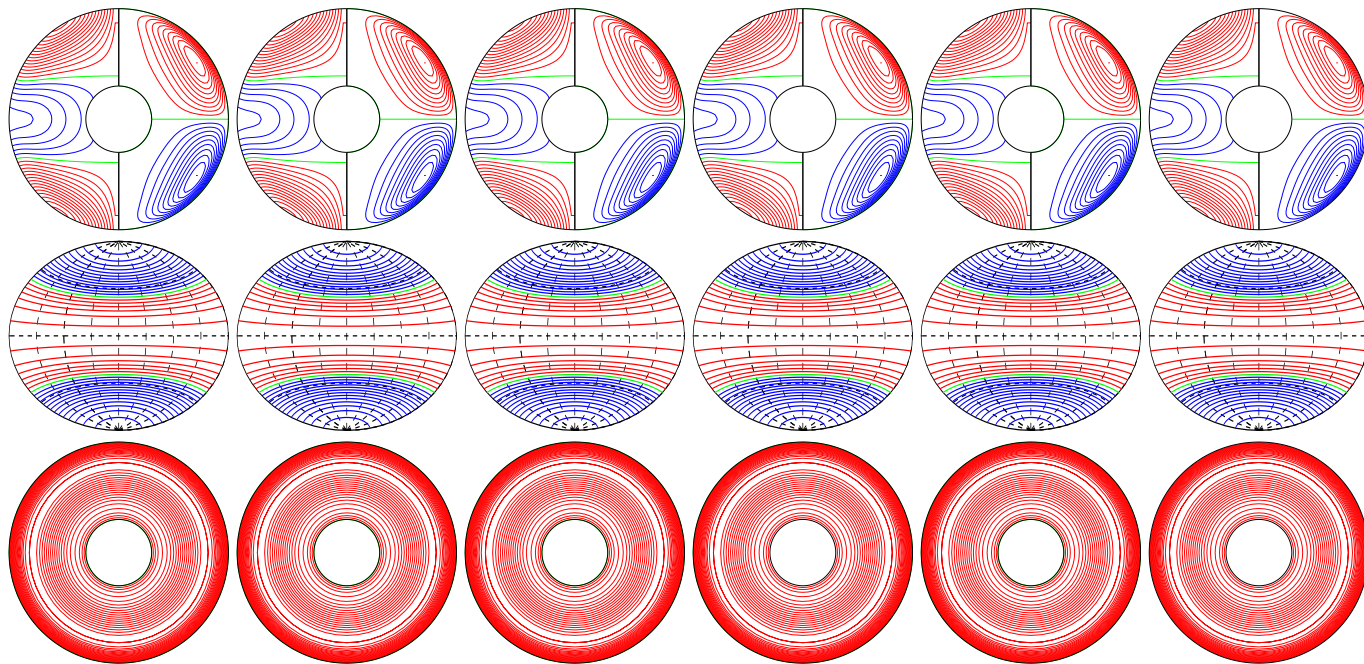


Nusselt Number

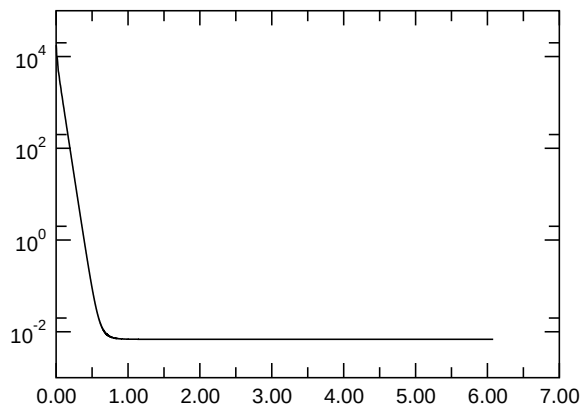


a.e03p1t03r-50000m16n2N2z1.0e2Y.20
times: 4.480013 4.800014 5.120015 5.440016 5.760017 6.080018

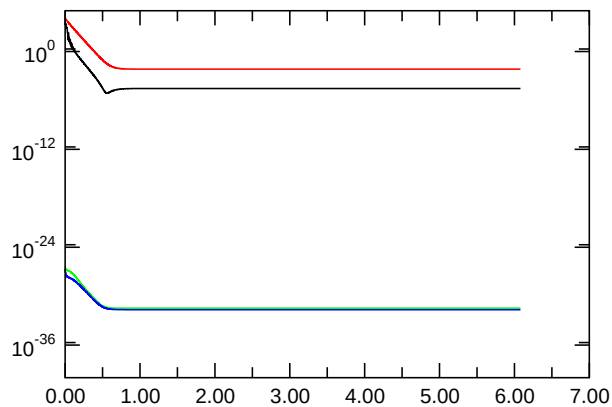
April 1, 2016



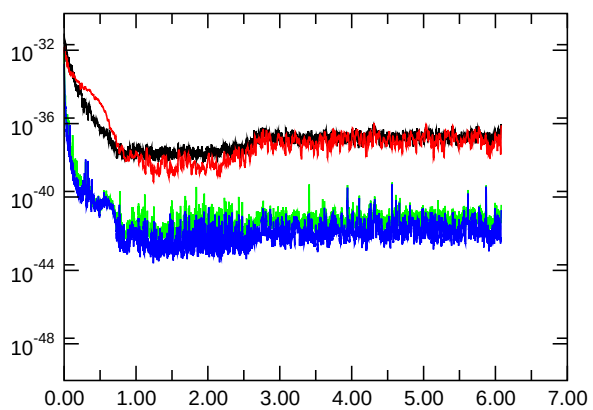
a.e03p1t03r-50000m16n2N2z1.0e2Y
 E_{kin}



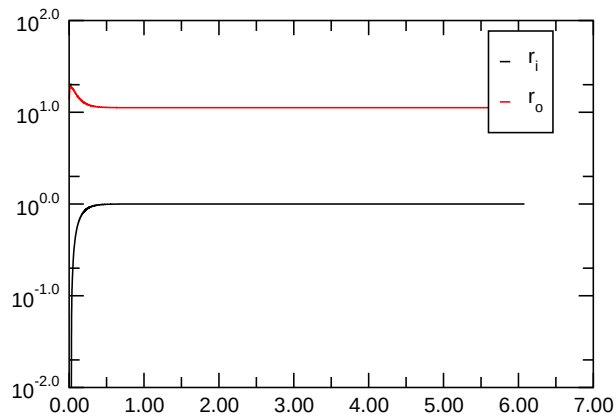
$E_{\text{kin,symm.}}$



$E_{\text{kin,asymm.}}$

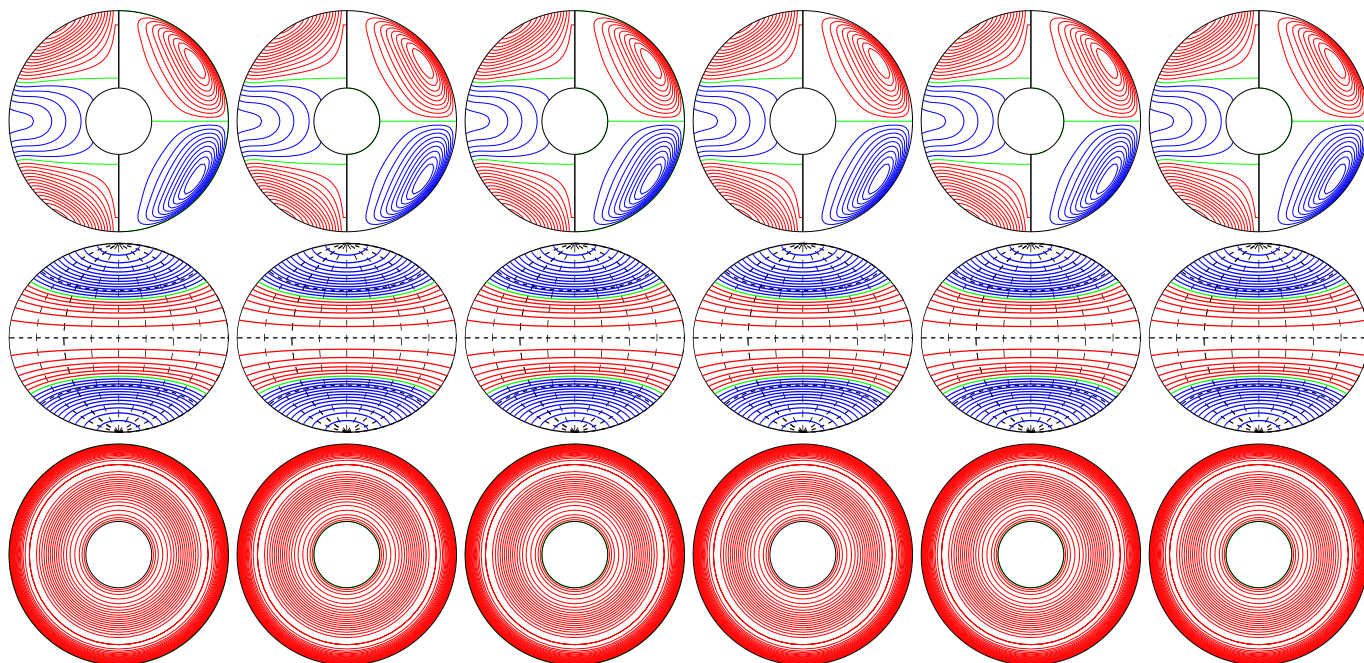


Nusselt Number

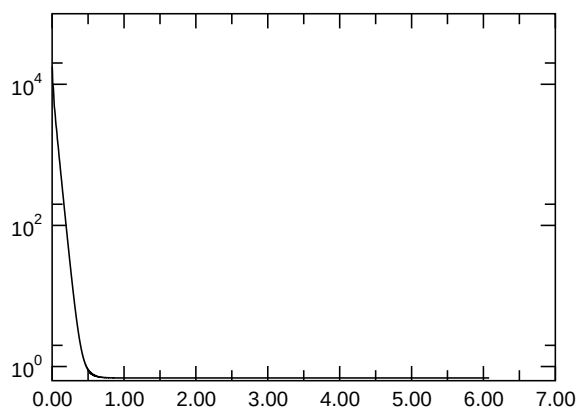


a.e03p1t03r-50000m16n2N2z1.0e3Y.20
times: 4.480013 4.800014 5.120015 5.440016 5.760017 6.080018

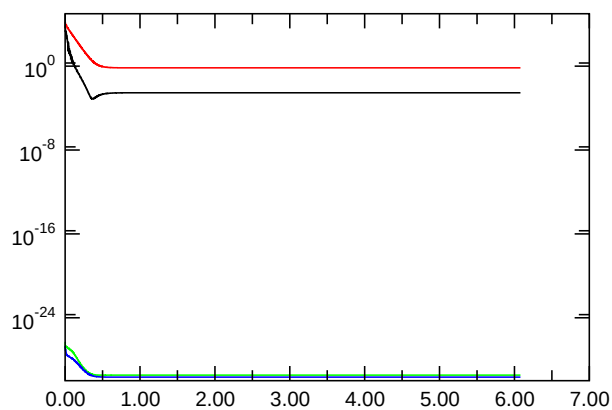
April 1, 2016



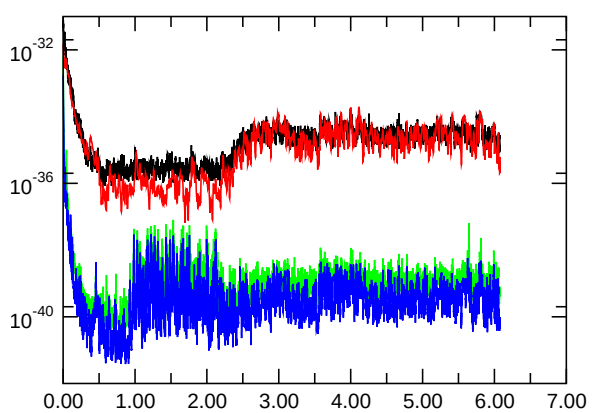
a.e03p1t03r-50000m16n2N2z1.0e3Y
 E_{kin}



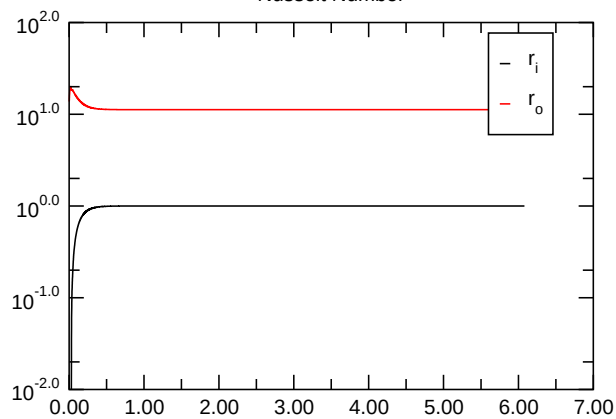
$E_{\text{kin,symm.}}$



$E_{\text{kin,asymm.}}$

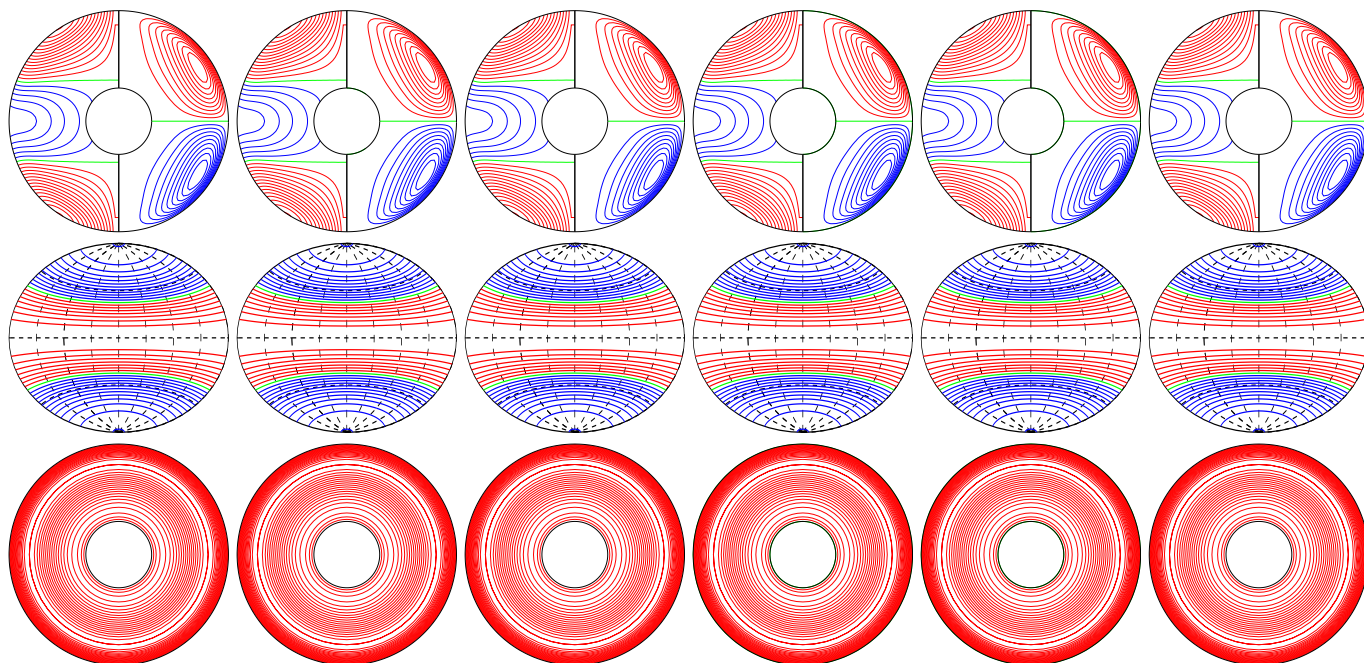


Nusselt Number



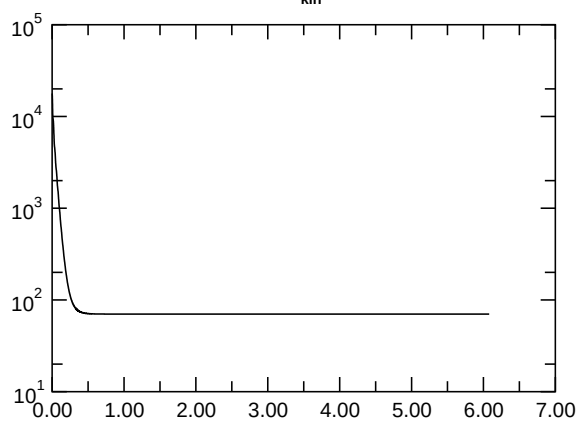
a.e03p1t03r-50000m16n2N2z1.0e4Y.20
times: 4.480013 4.800014 5.120015 5.440016 5.760017 6.080018

April 1, 2016

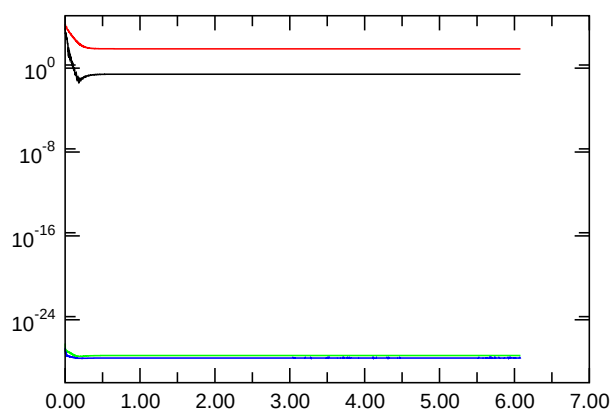


a.e03p1t03r-50000m16n2N2z1.0e4Y

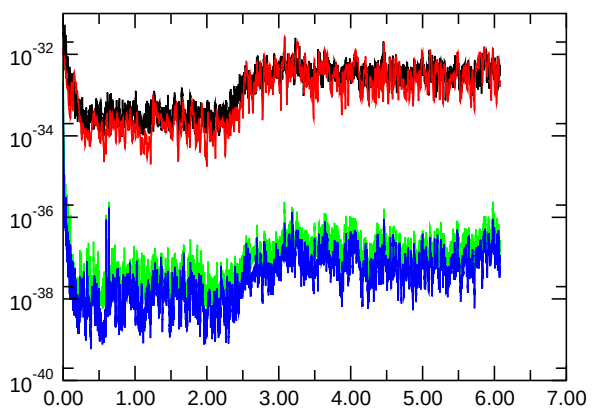
E_{kin}



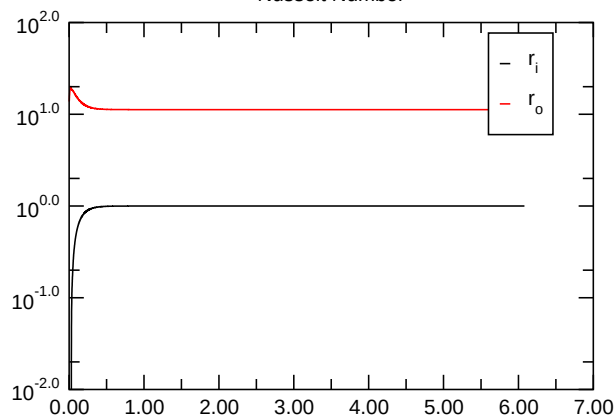
$E_{\text{kin,symm.}}$



$E_{\text{kin,asymm.}}$

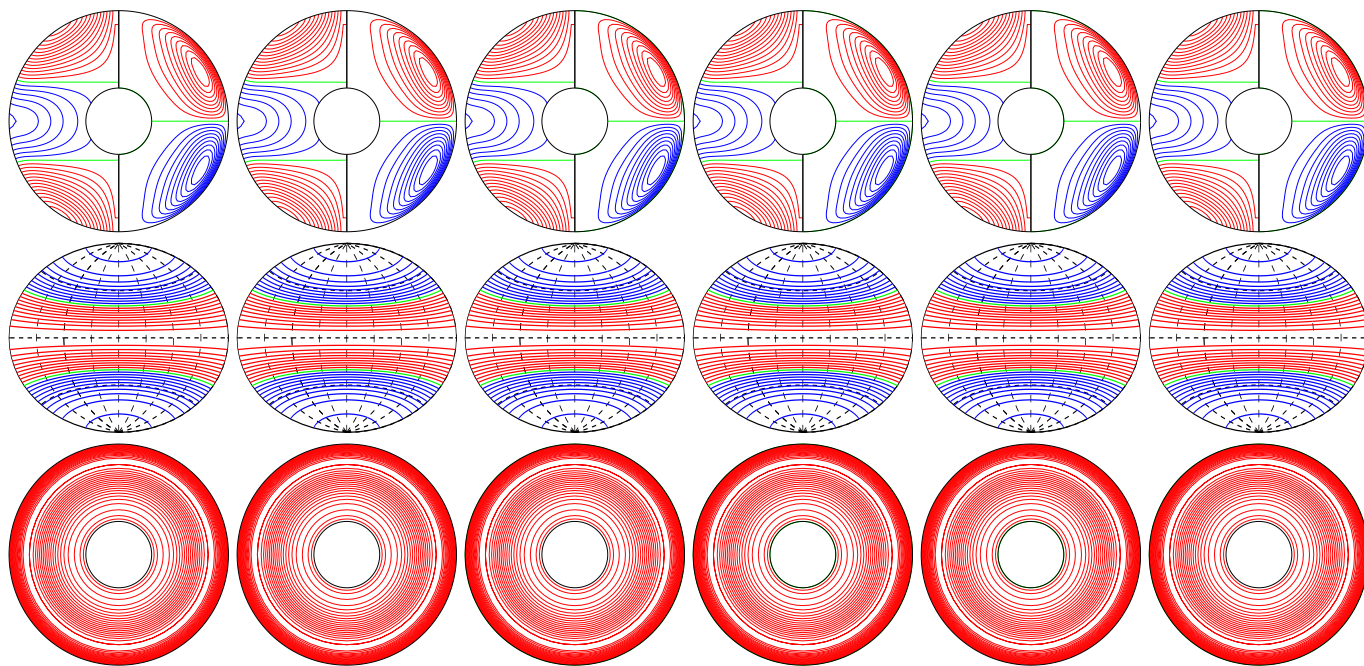


Nusselt Number



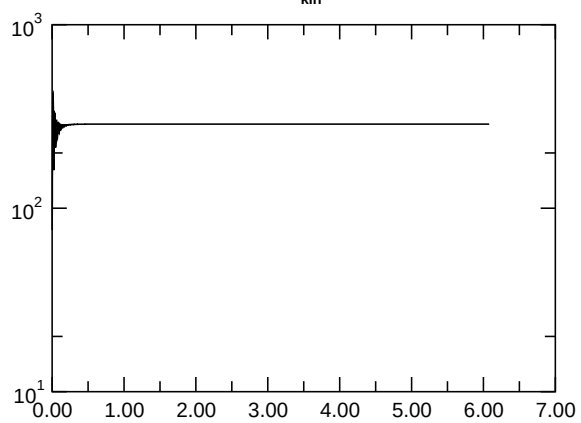
a.e03p1t03r-50000m16n2N2z2.0e4Y.20
times: 4.480013 4.800014 5.120015 5.440016 5.760017 6.080018

April 1, 2016

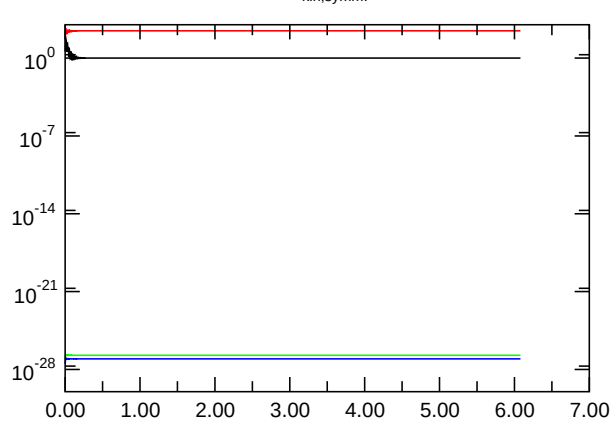


a.e03p1t03r-50000m16n2N2z2.0e4Y

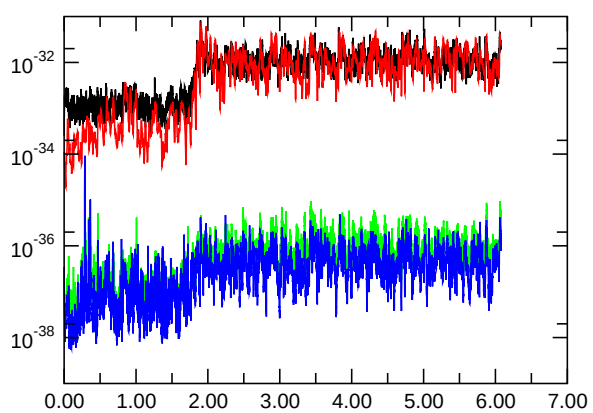
E_{kin}



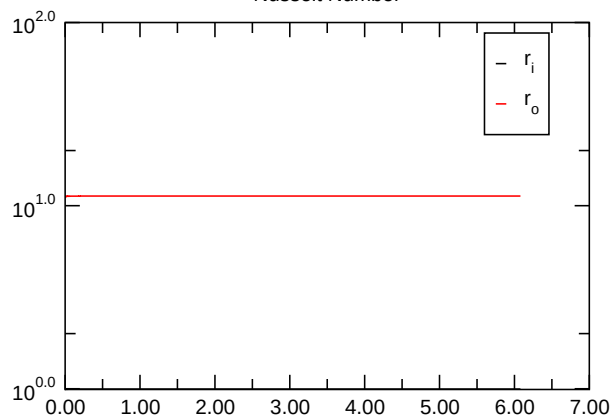
$E_{\text{kin,symm.}}$



$E_{\text{kin,asymm.}}$

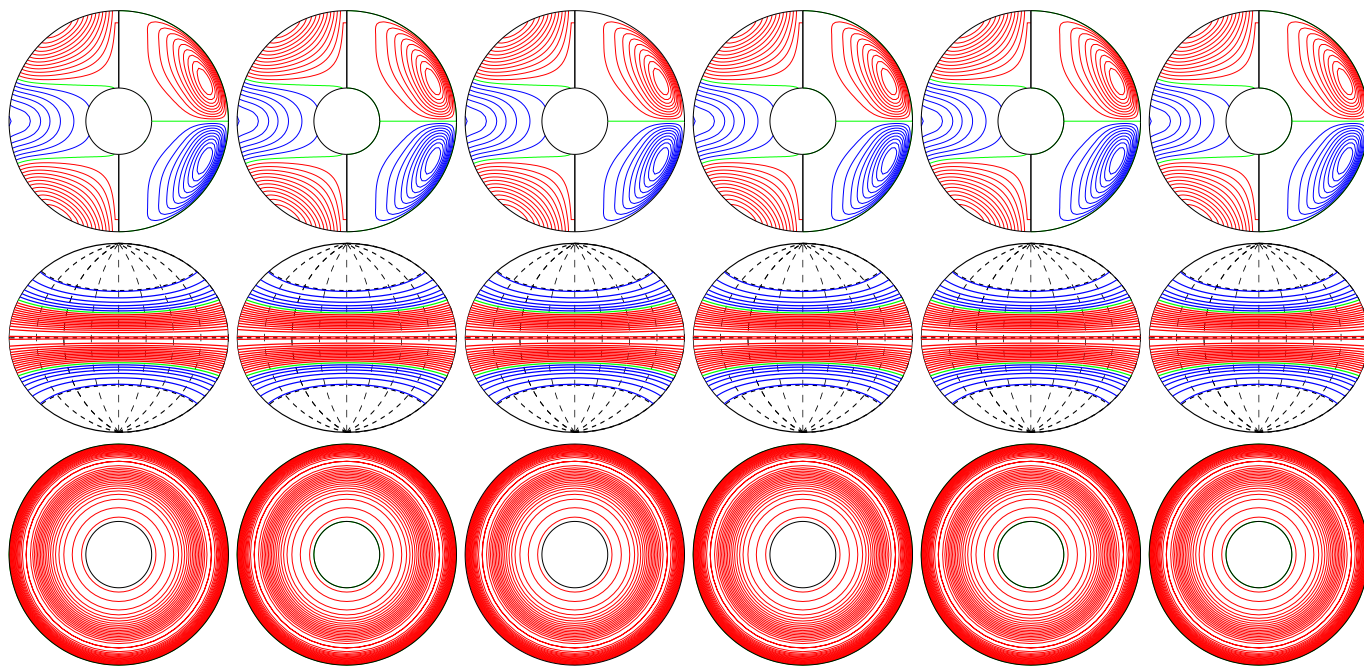


Nusselt Number



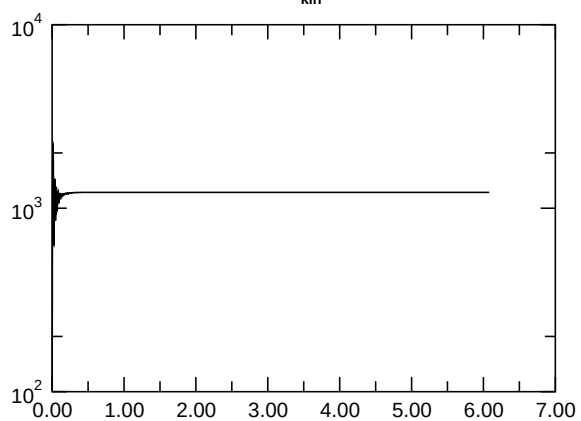
a.e03p1t03r-50000m16n2N2z4.0e4Y.20
times: 4.480013 4.800014 5.120015 5.440016 5.760017 6.080018

April 1, 2016

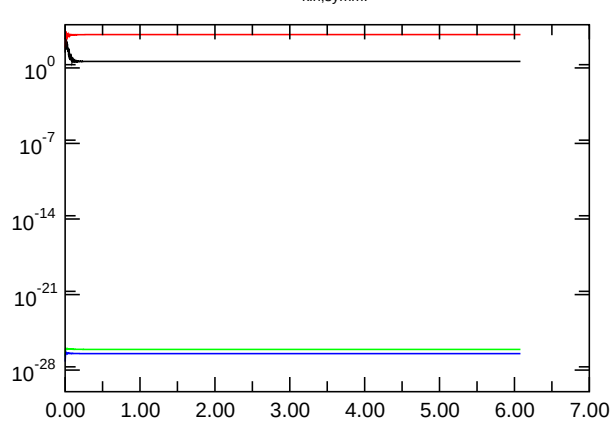


a.e03p1t03r-50000m16n2N2z4.0e4Y

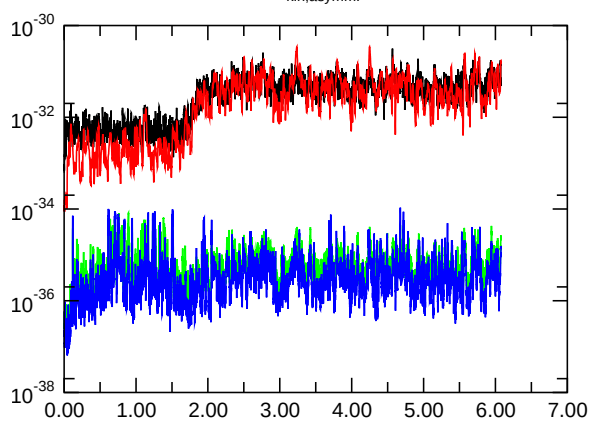
E_{kin}



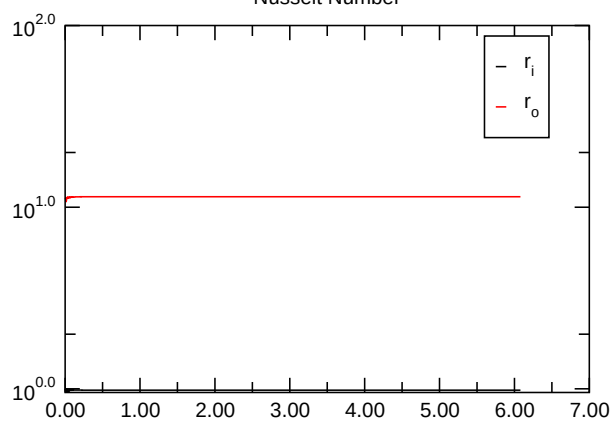
$E_{\text{kin,symm.}}$



$E_{\text{kin,asymm.}}$

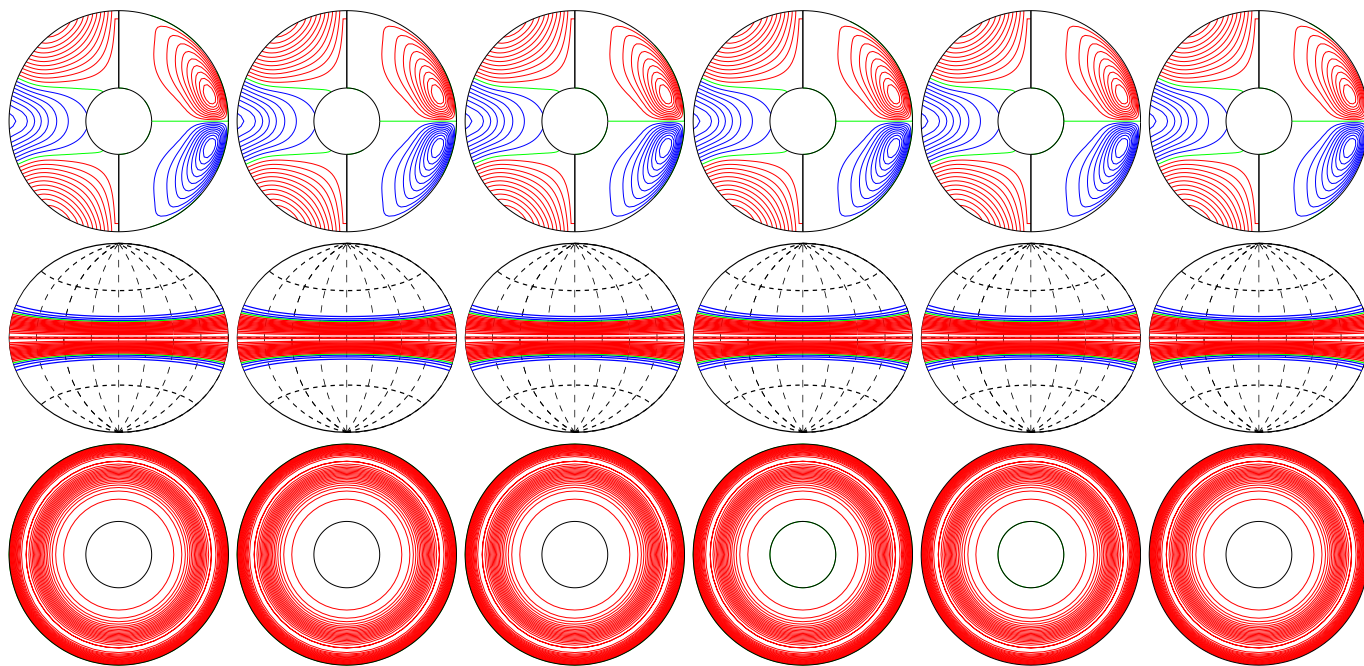


Nusselt Number

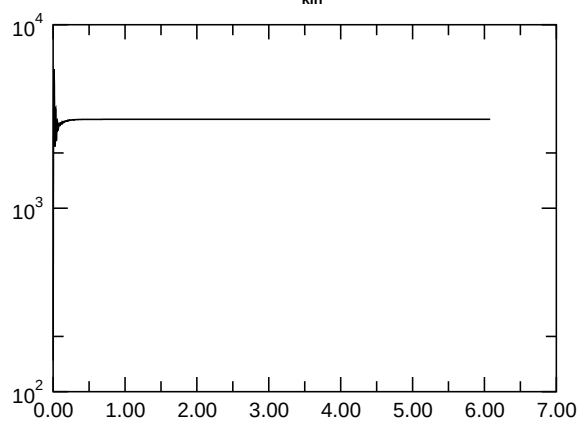


a.e03p1t03r-50000m16n2N2z6.0e4Y.20
times: 4.480013 4.800014 5.120015 5.440016 5.760017 6.080018

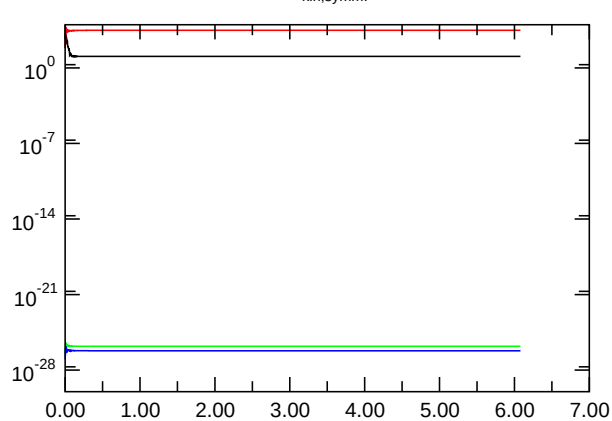
April 1, 2016



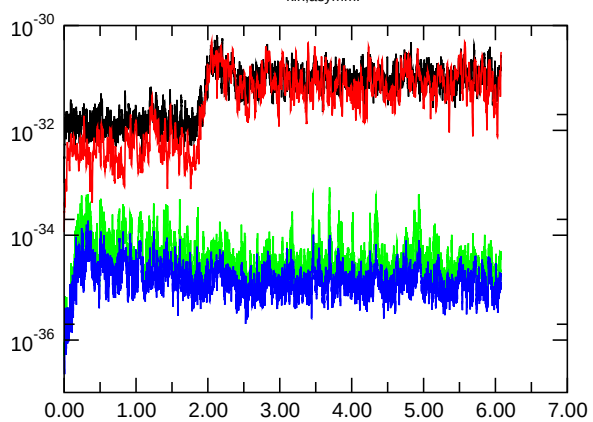
a.e03p1t03r-50000m16n2N2z6.0e4Y
 E_{kin}



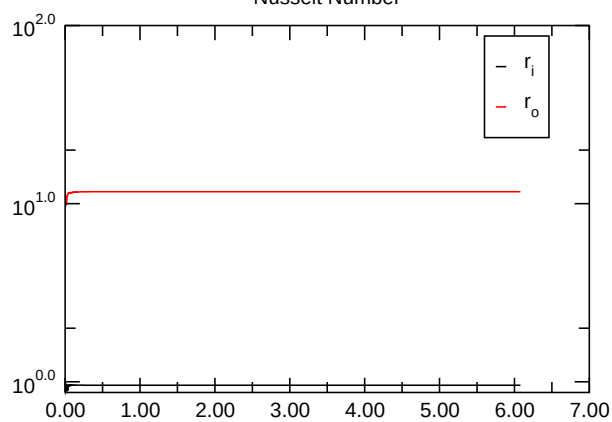
$E_{\text{kin,symm.}}$



$E_{\text{kin,asymm.}}$

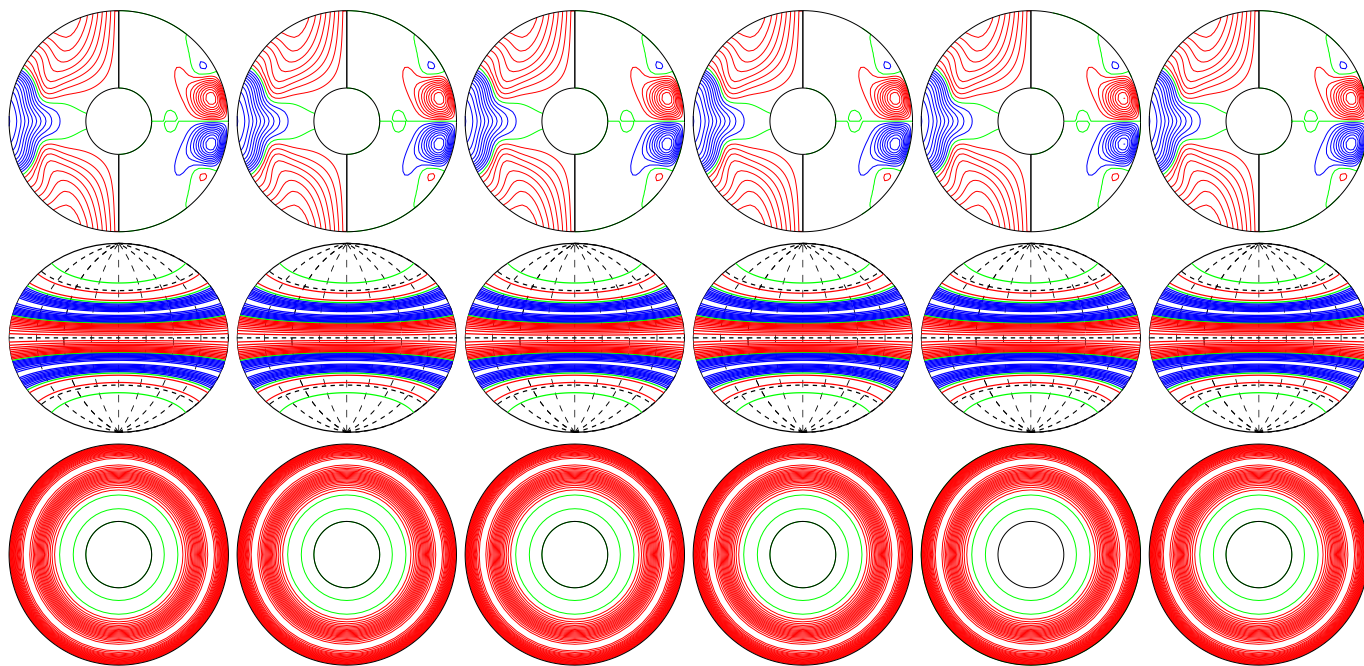


Nusselt Number



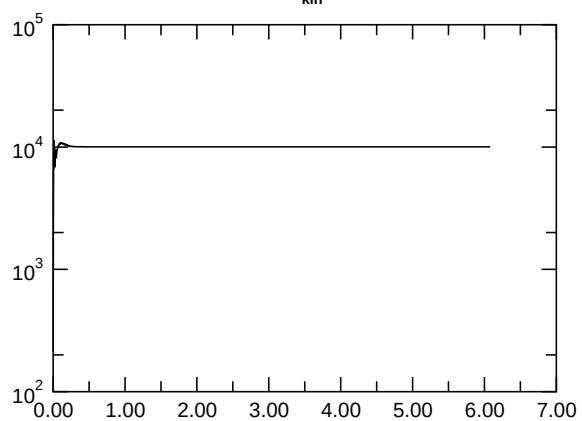
a.e03p1t03r-50000m16n2N2z8.0e4Y.20
times: 4.480013 4.800014 5.120015 5.440016 5.760017 6.080018

April 1, 2016

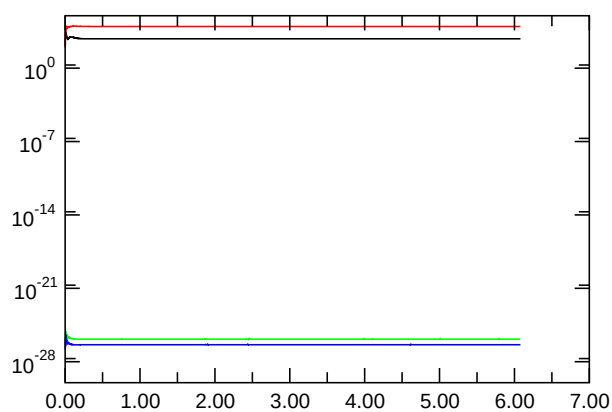


a.e03p1t03r-50000m16n2N2z8.0e4Y

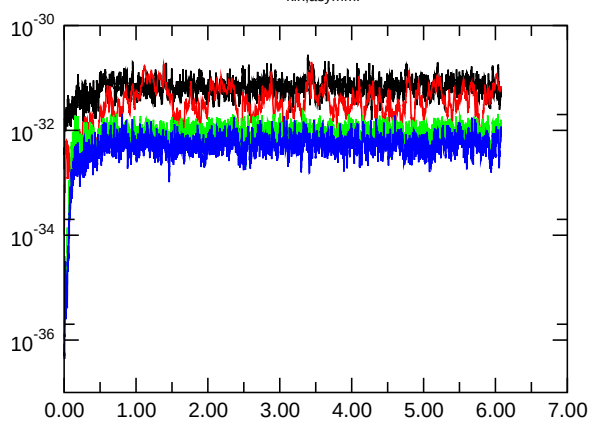
E_{kin}



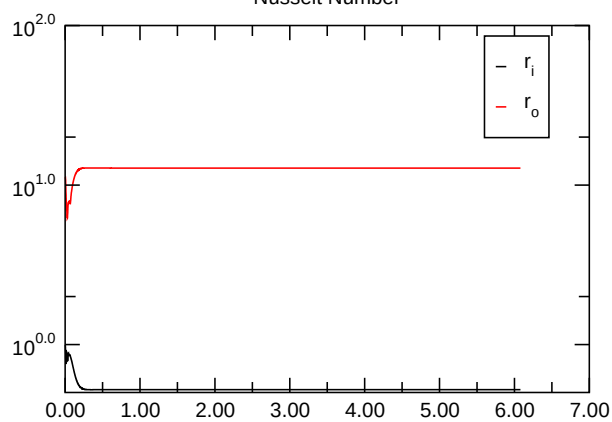
$E_{\text{kin,symm.}}$



$E_{\text{kin,asymm.}}$

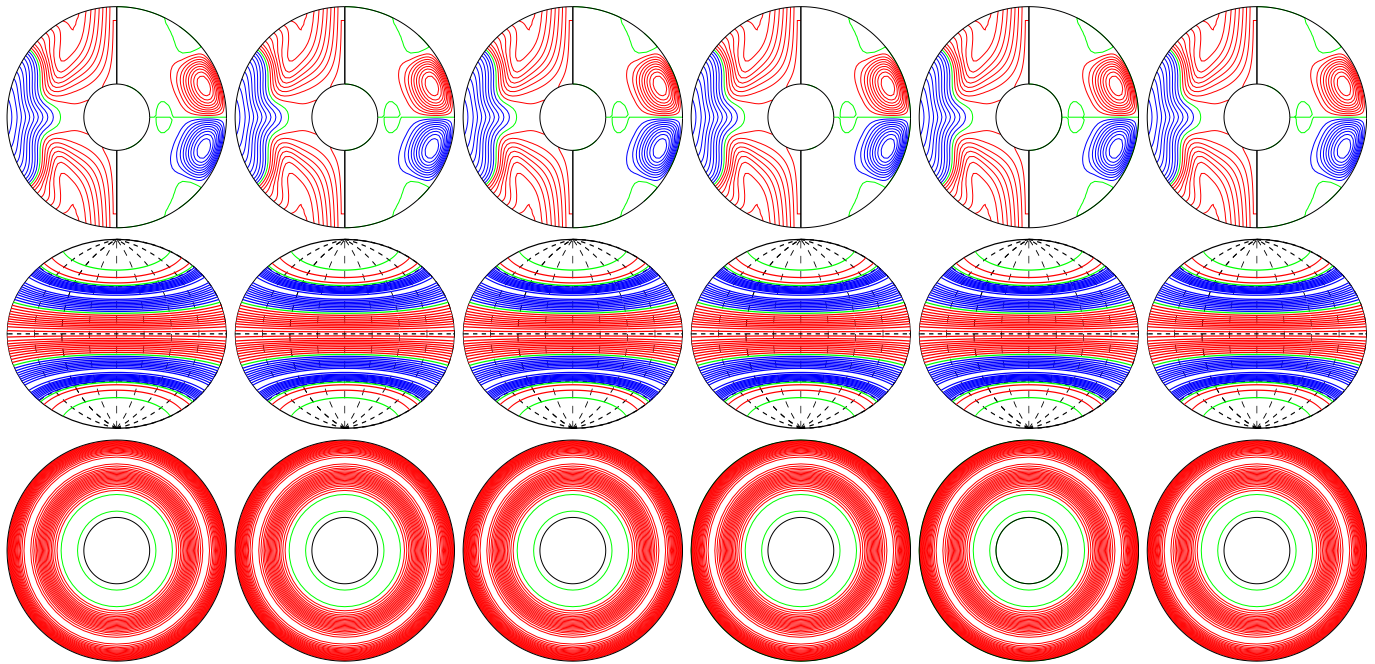


Nusselt Number



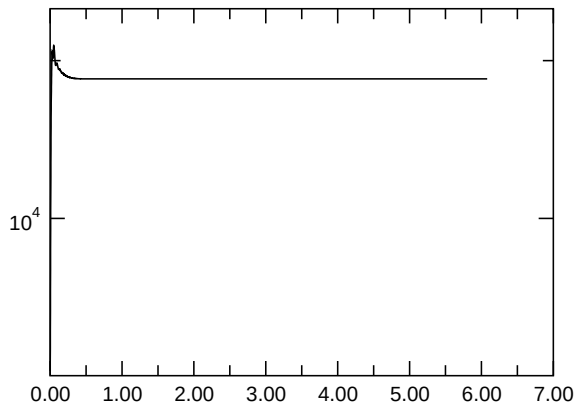
a.e03p1t03r-50000m16n2N2z1.0e5test05.20
times: 4.480013 4.800014 5.120015 5.440016 5.760017 6.080018

April 1, 2016

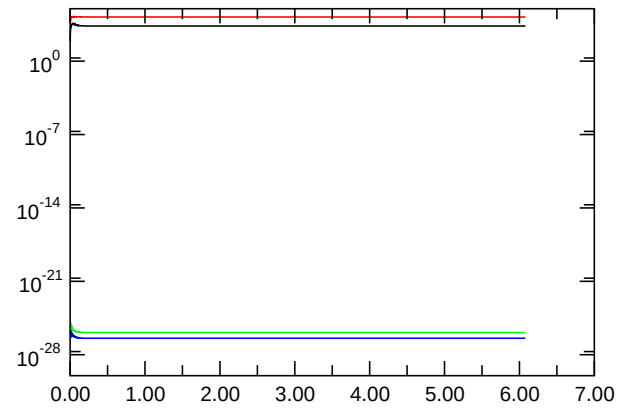


a.e03p1t03r-50000m16n2N2z1.0e5test05

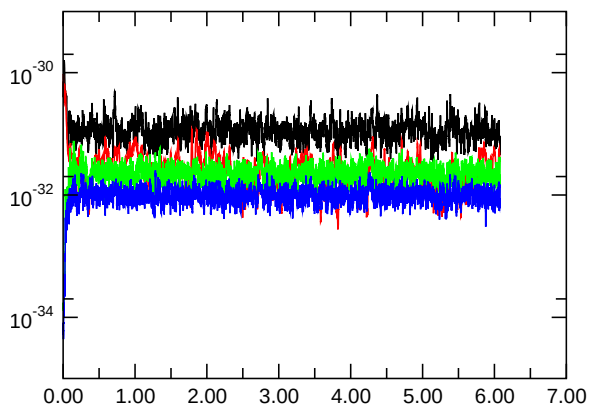
E_{kin}



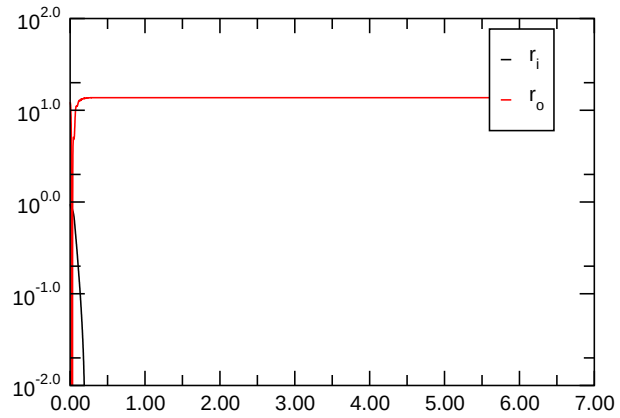
$E_{\text{kin,symm.}}$



$E_{\text{kin,asymm.}}$

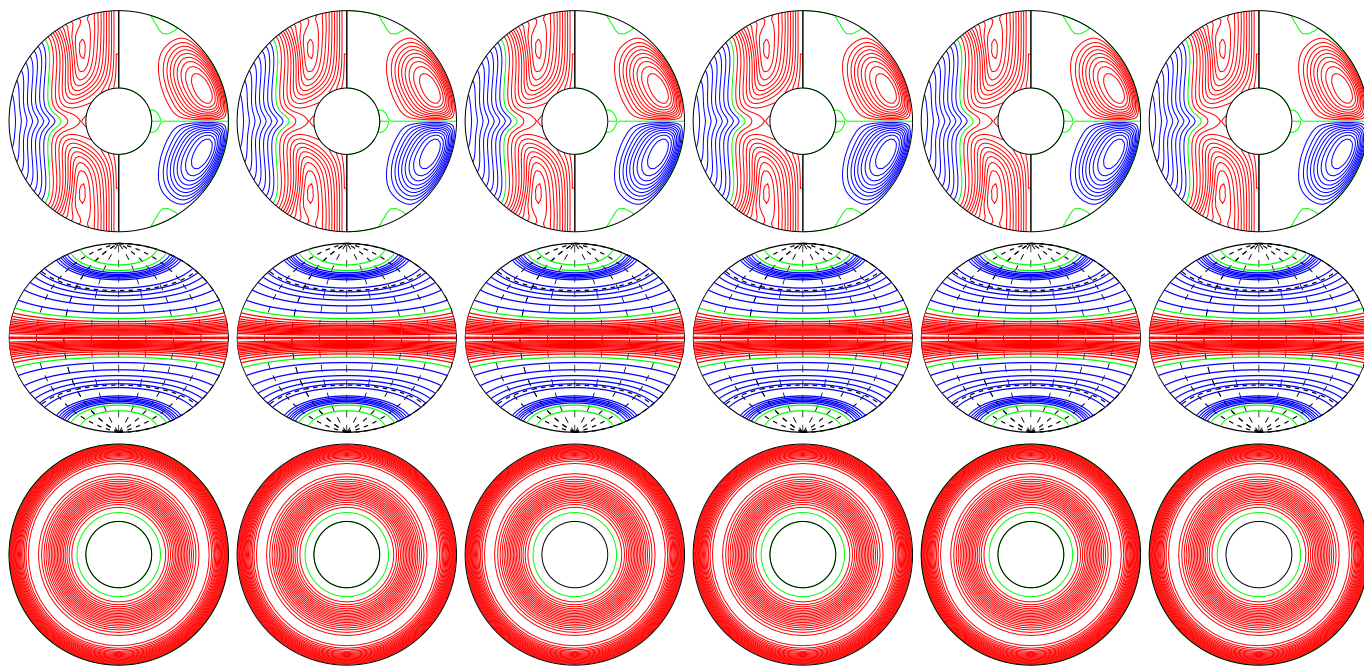


Nusselt Number



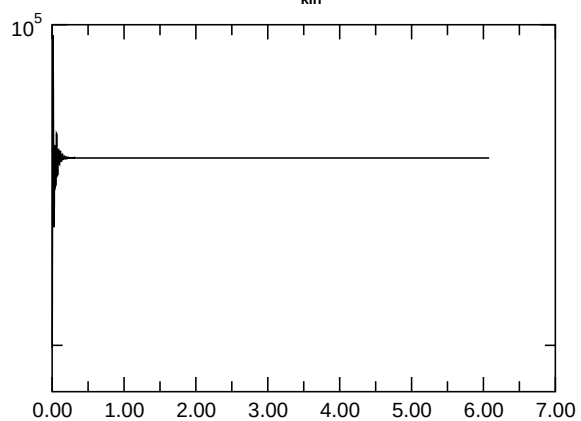
a.e03p1t03r-50000m16n2N2z2.0e5Y.20
times: 4.480013 4.800014 5.120015 5.440016 5.760017 6.080018

April 1, 2016

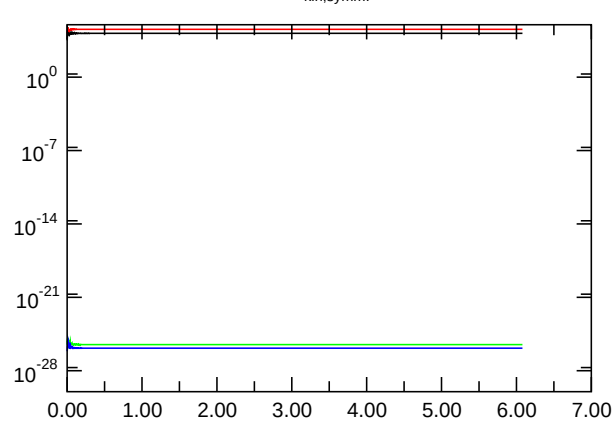


a.e03p1t03r-50000m16n2N2z2.0e5Y

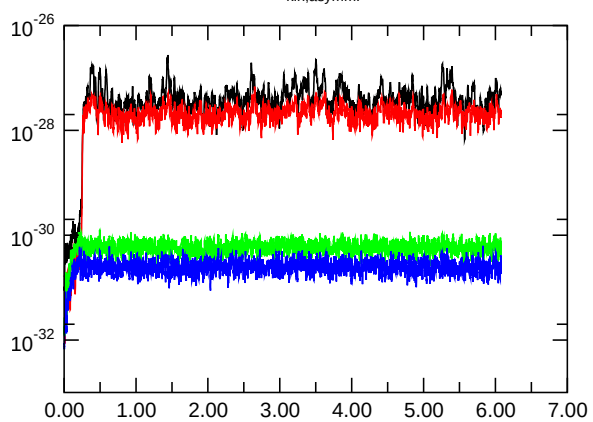
E_{kin}



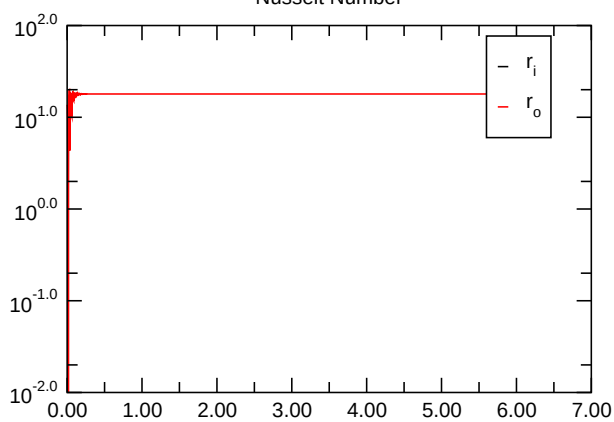
$E_{\text{kin,symm.}}$



$E_{\text{kin,asymm.}}$



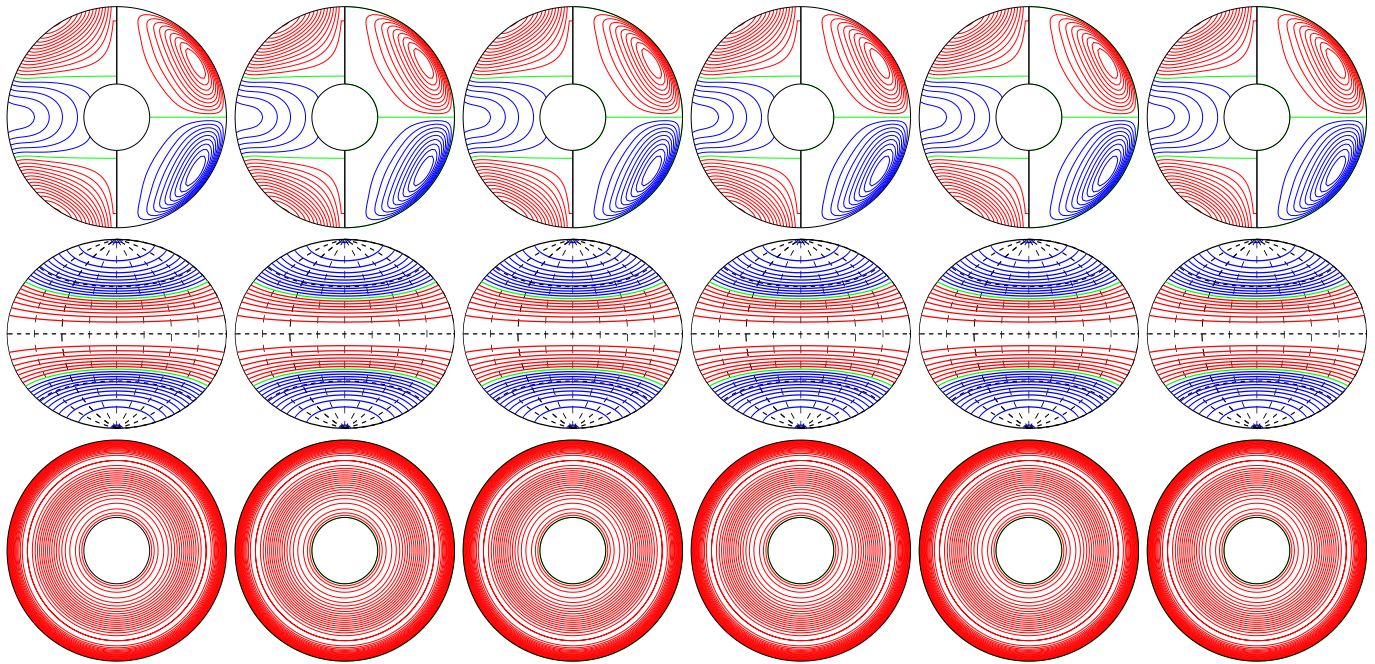
Nusselt Number



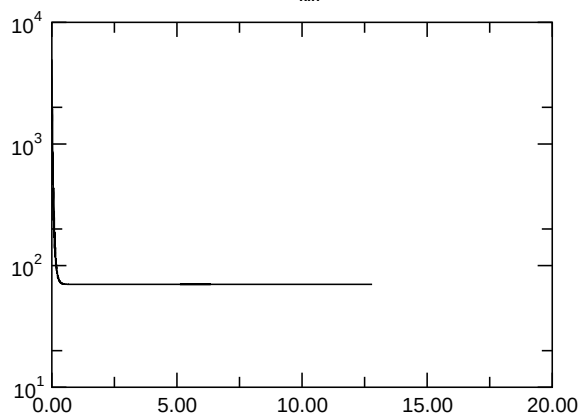
a.e03p1t03r-50000m1n2N2z1.0e4Y.11

times: 6.400005 7.680006 8.960007 10.24001 11.52001 12.80001

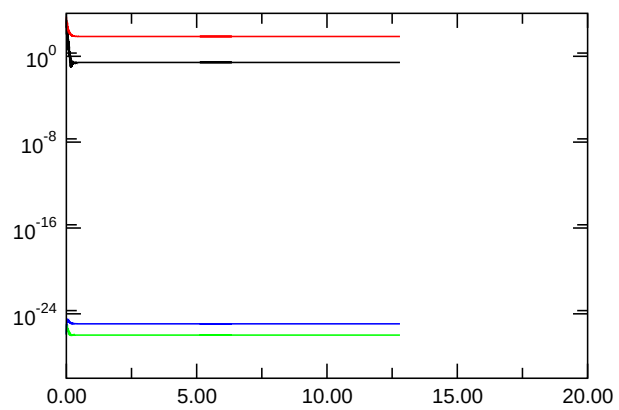
April 1, 2016



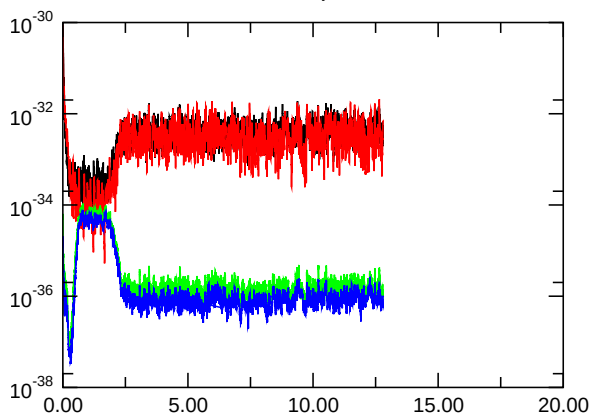
a.e03p1t03r-50000m1n2N2z1.0e4Y
 E_{kin}



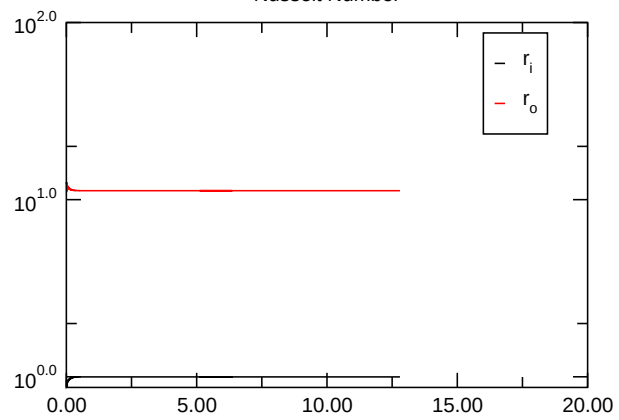
$E_{\text{kin, symm.}}$



$E_{\text{kin, asymm.}}$



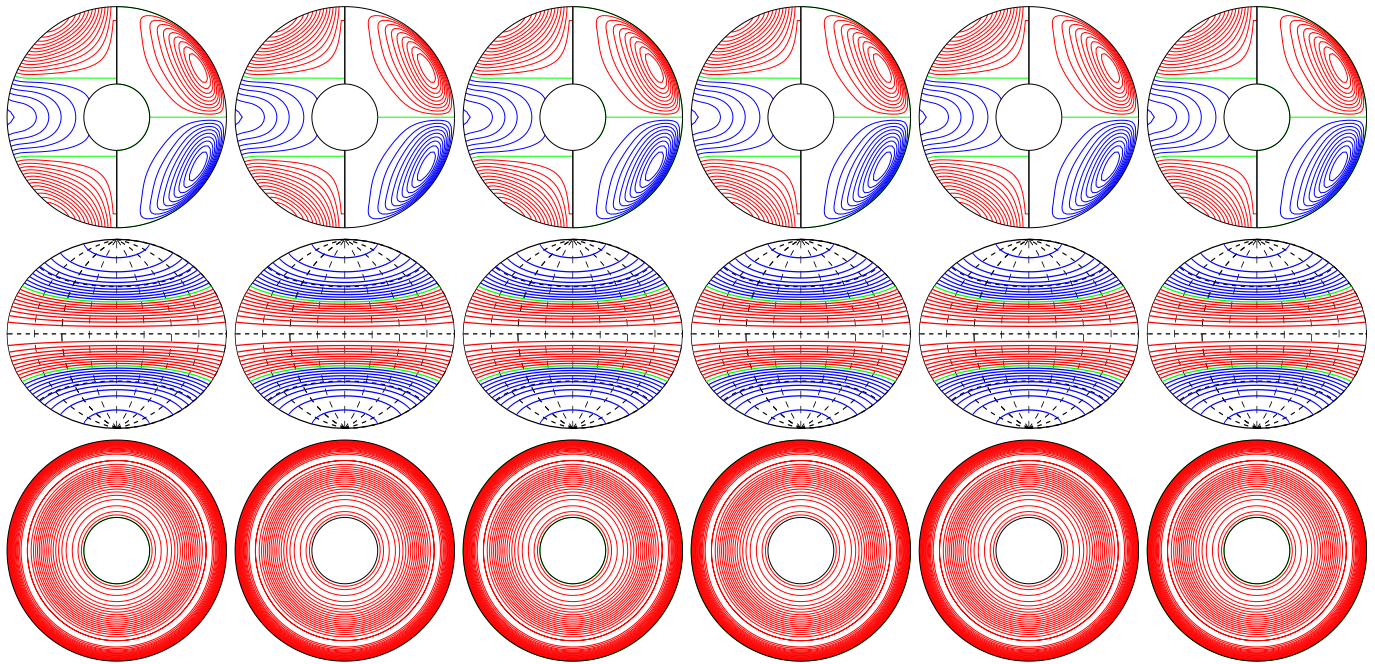
Nusselt Number



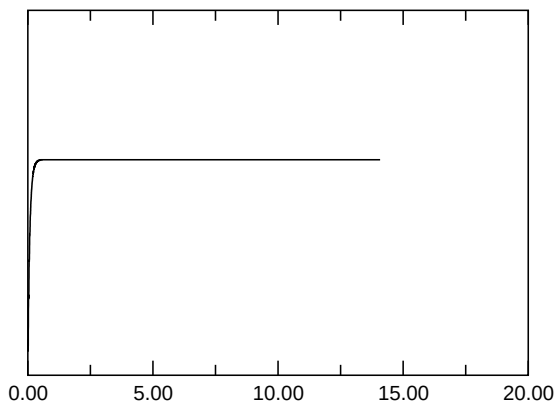
a.e03p1t03r-50000m1n2N2z2.0e4Y.12

times: 7.680006 8.960007 10.24001 11.52001 12.80001 14.08001

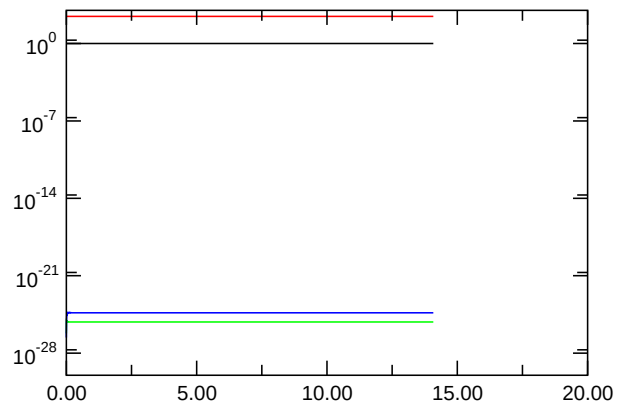
April 1, 2016



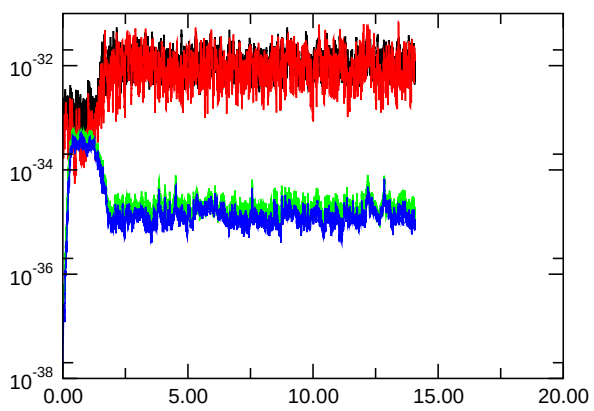
a.e03p1t03r-50000m1n2N2z2.0e4Y
 E_{kin}



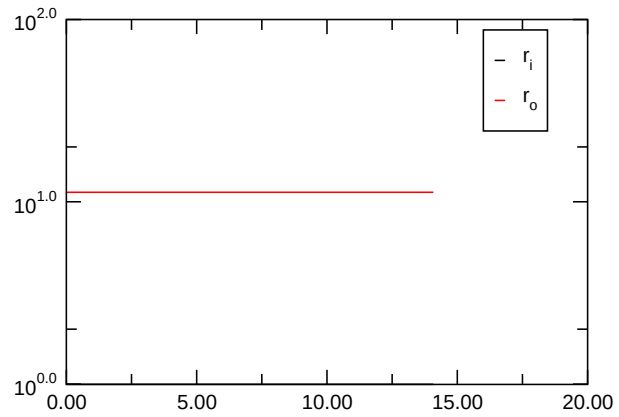
$E_{\text{kin,symm.}}$



$E_{\text{kin,asymm.}}$



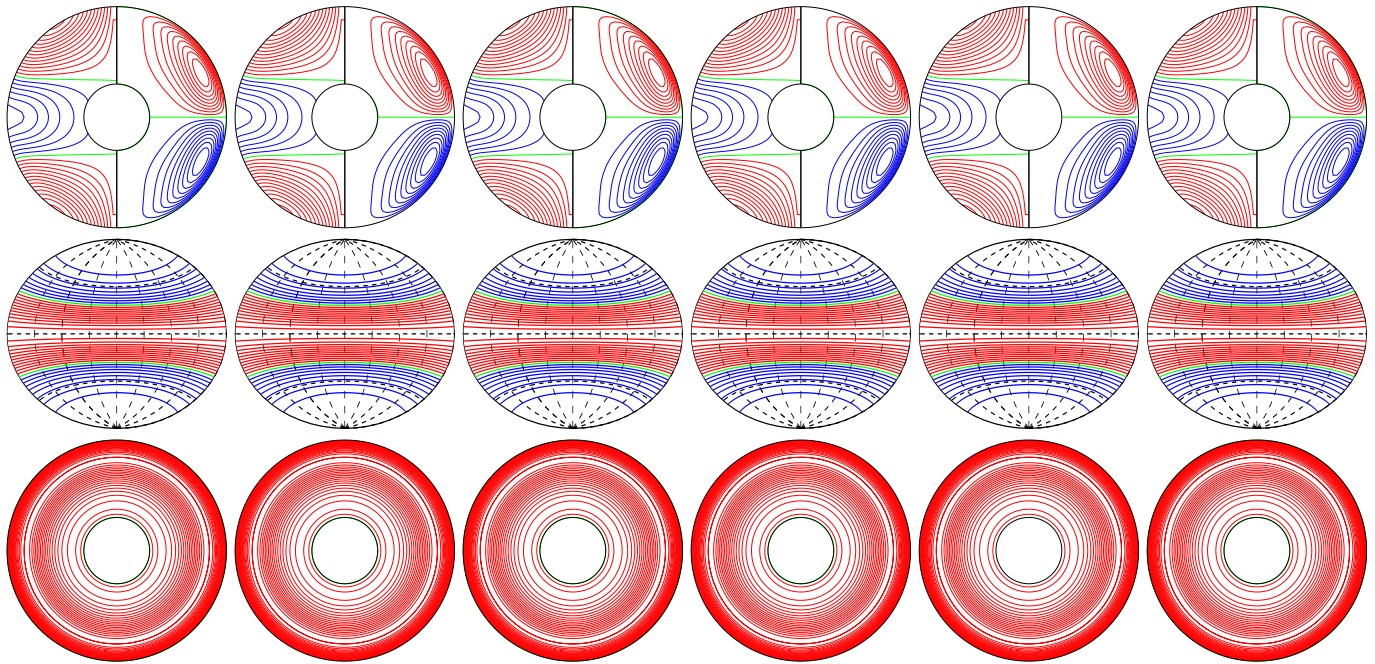
Nusselt Number



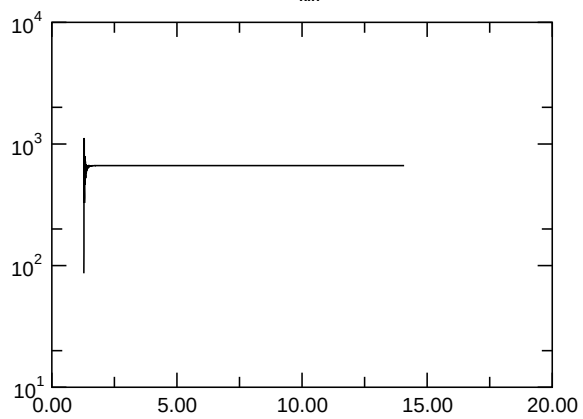
a.e03p1t03r-50000m1n2N2z3.0e4Y.11

times: 7.680006 8.960007 10.24001 11.52001 12.80001 14.08001

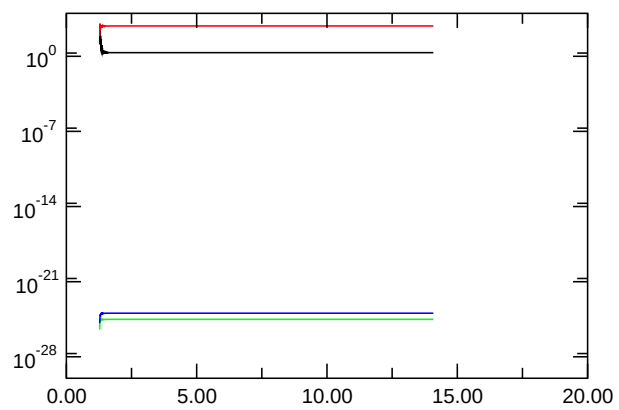
April 1, 2016



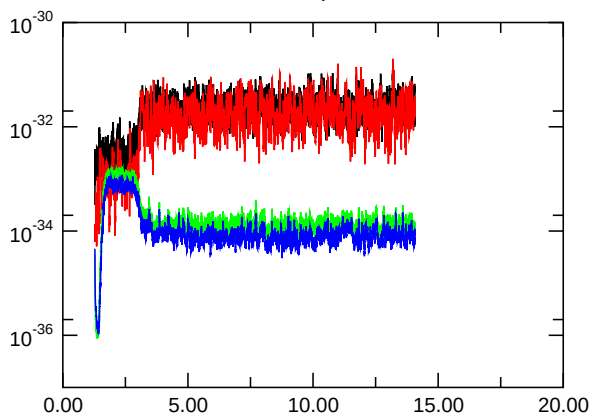
a.e03p1t03r-50000m1n2N2z3.0e4Y
 E_{kin}



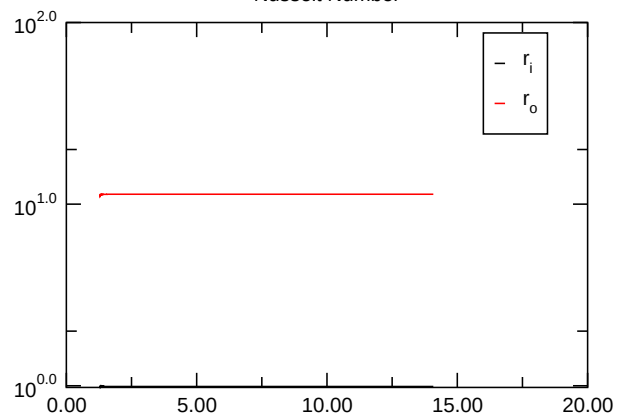
$E_{\text{kin,symm.}}$



$E_{\text{kin,asymm.}}$



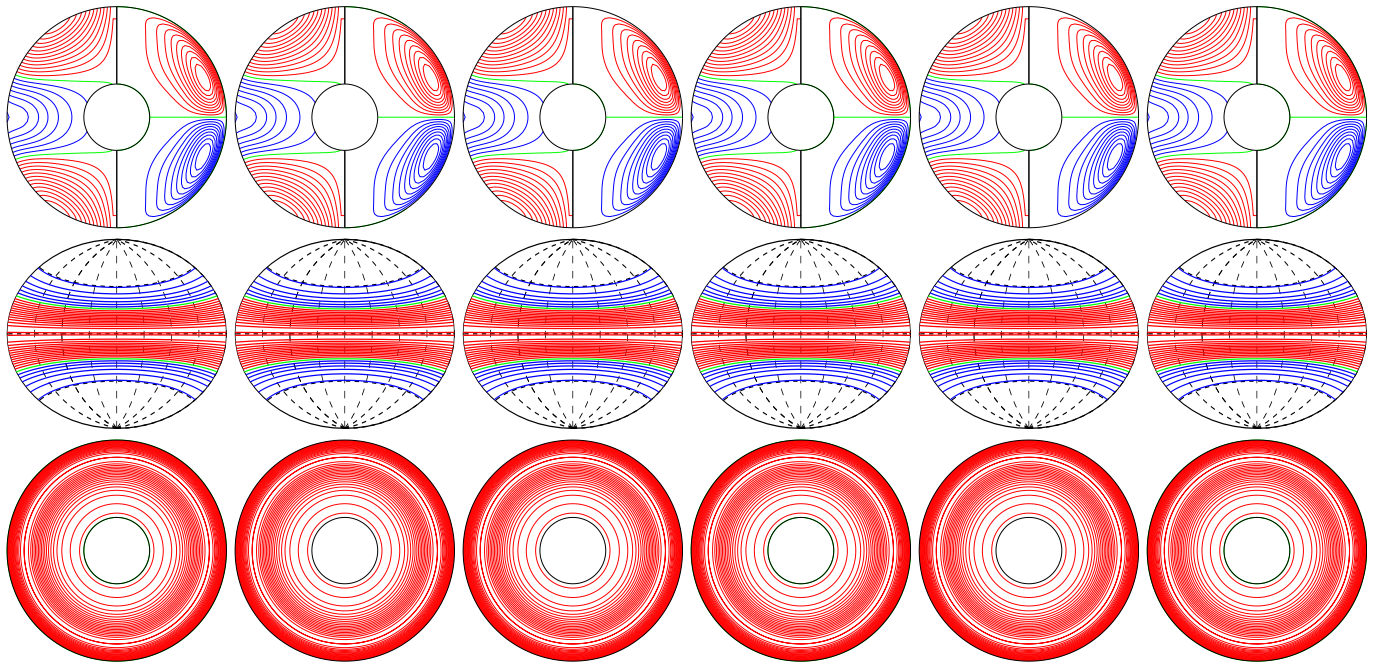
Nusselt Number



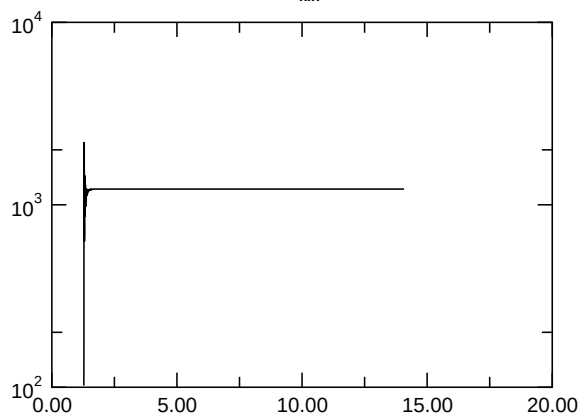
a.e03p1t03r-50000m1n2N2z4.0e4Y.11

times: 7.680006 8.960007 10.24001 11.52001 12.80001 14.08001

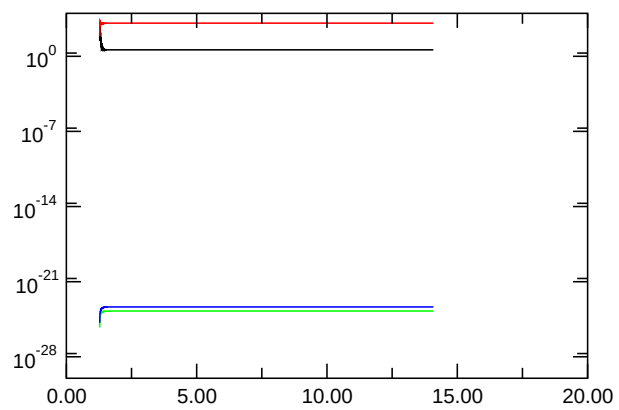
April 1, 2016



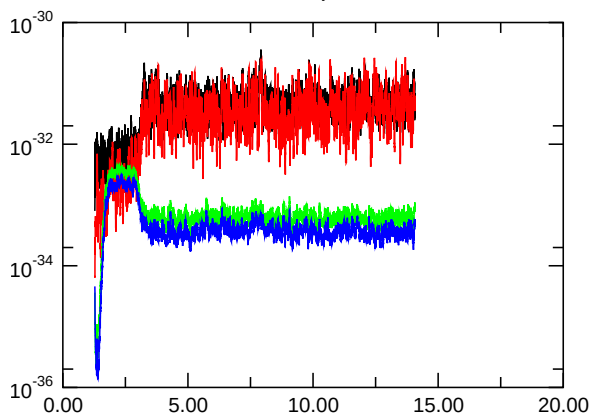
a.e03p1t03r-50000m1n2N2z4.0e4Y
 E_{kin}



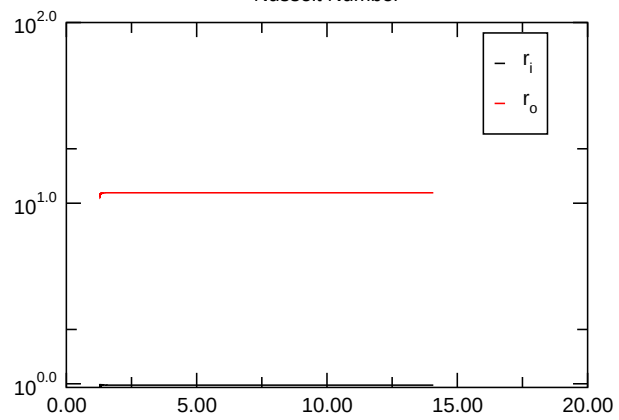
$E_{\text{kin,symm.}}$



$E_{\text{kin,asymm.}}$

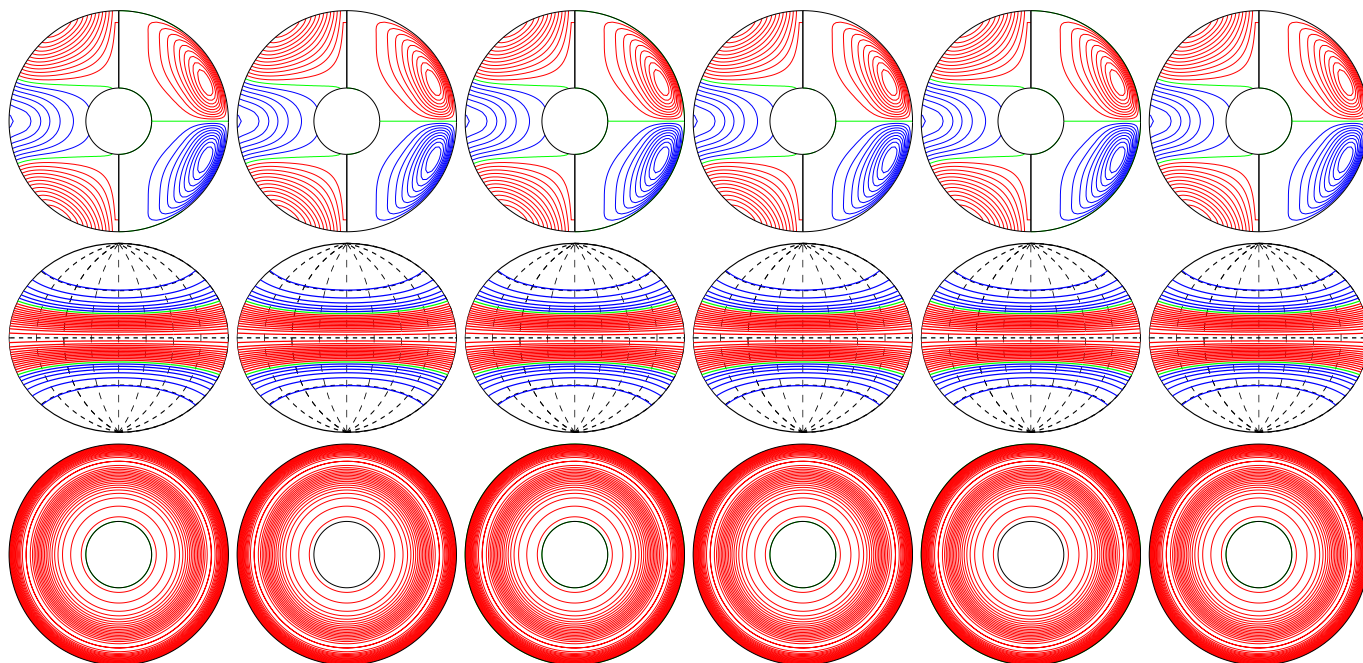


Nusselt Number

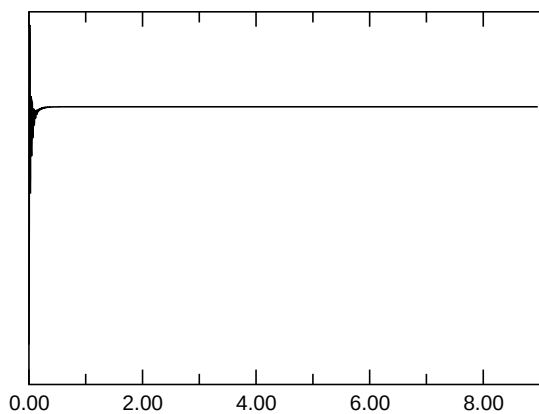


a.e03p1t03r-50000m1n2N2z4.2e4Y.8
times: 2.560002 3.840003 5.120004 6.400005 7.680006 8.960007

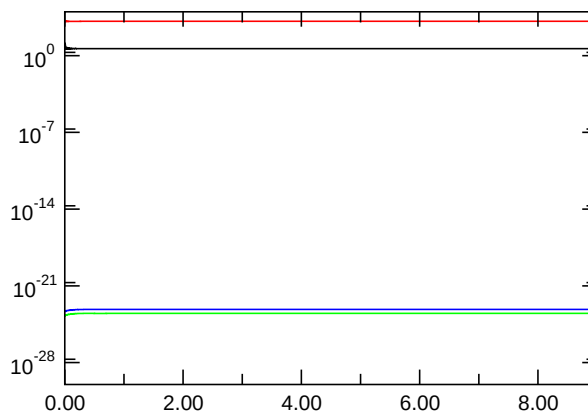
April 1, 2016



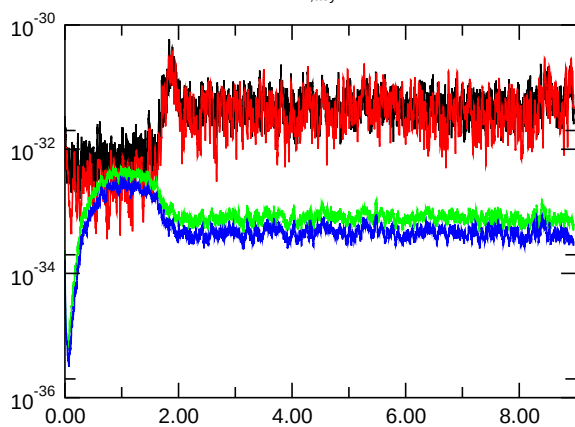
a.e03p1t03r-50000m1n2N2z4.2e4Y
 E_{kin}



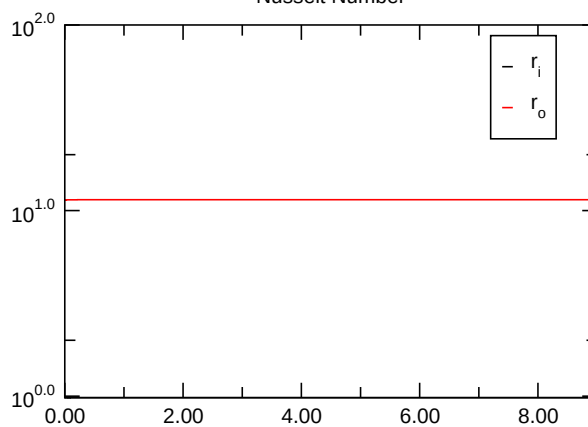
$E_{\text{kin,symm.}}$



$E_{\text{kin,asymm.}}$

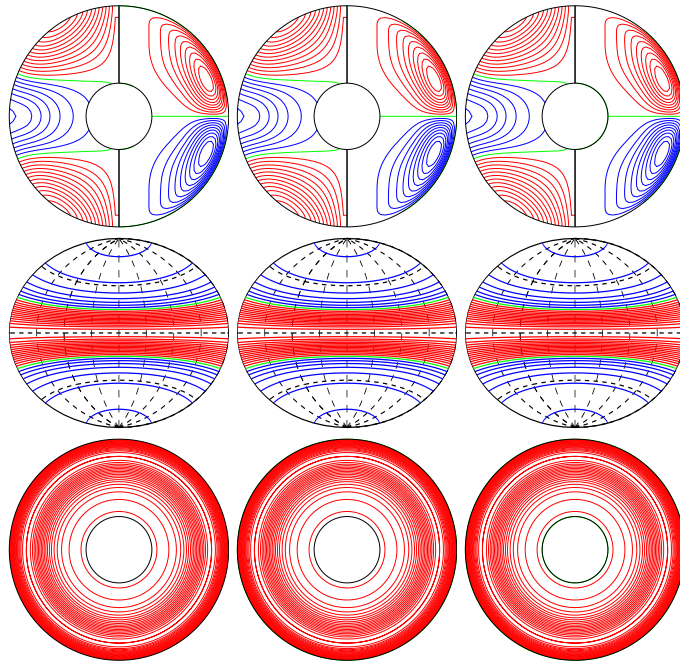


Nusselt Number

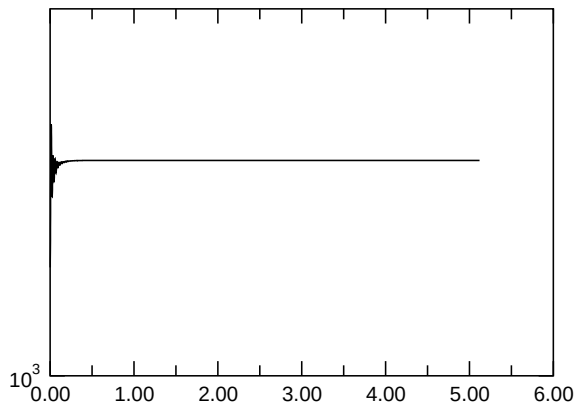


a.e03p1t03r-50000m1n2N2z4.4e4Y.4
times: 1.280001 2.560002 3.840003

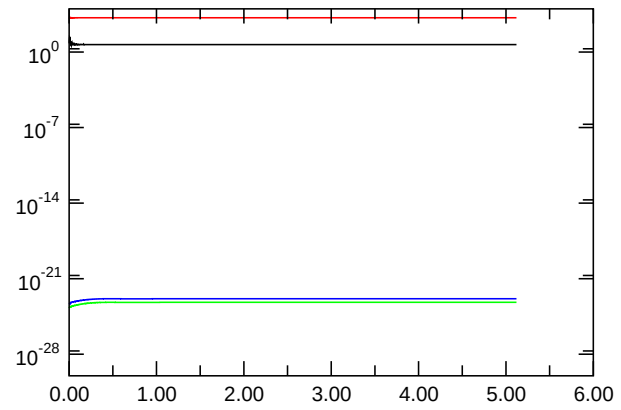
April 1, 2016



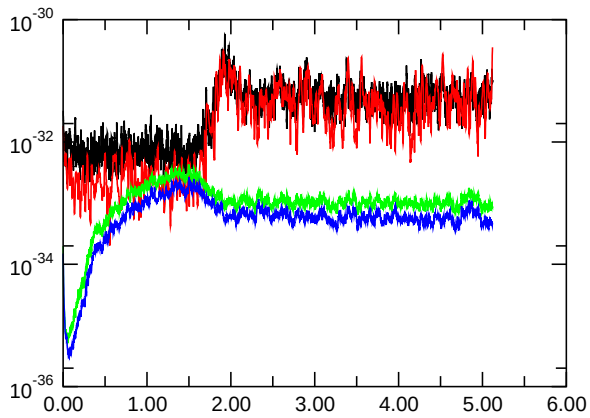
a.e03p1t03r-50000m1n2N2z4.4e4Y
 E_{kin}



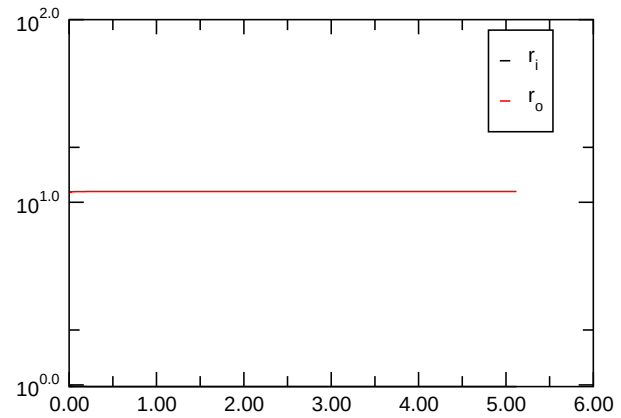
$E_{\text{kin,symm.}}$



$E_{\text{kin,asymm.}}$

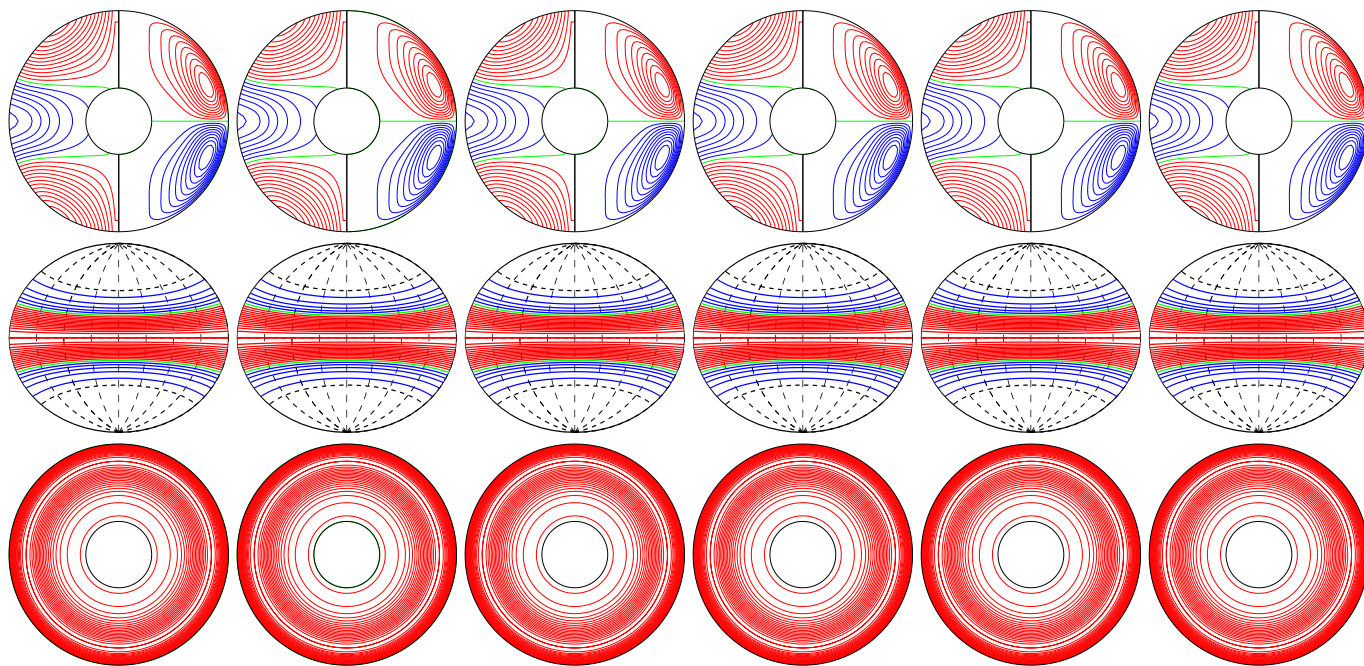


Nusselt Number

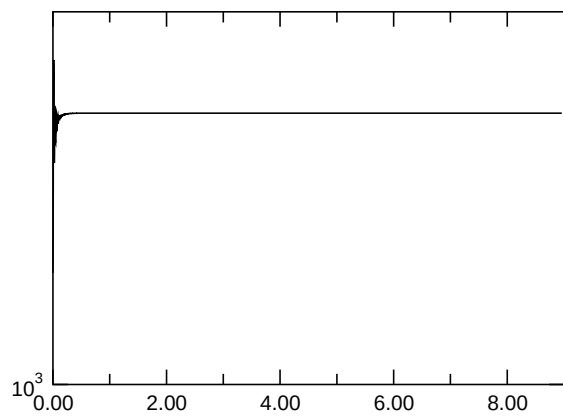


a.e03p1t03r-50000m1n2N2z4.6e4Y.8
times: 2.560002 3.840003 5.120004 6.400005 7.680006 8.960007

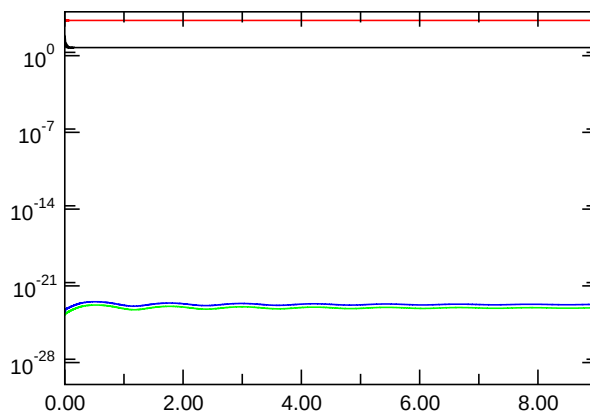
April 1, 2016



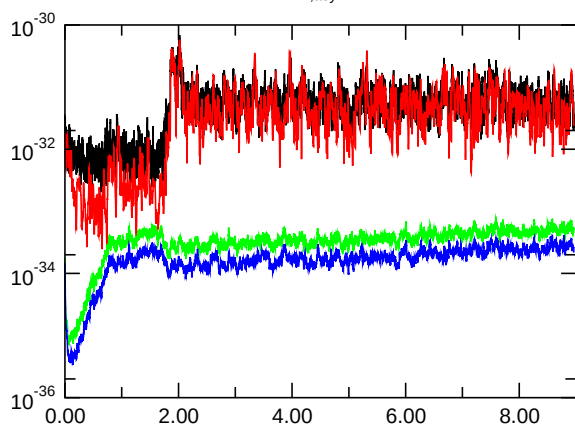
a.e03p1t03r-50000m1n2N2z4.6e4Y
 E_{kin}



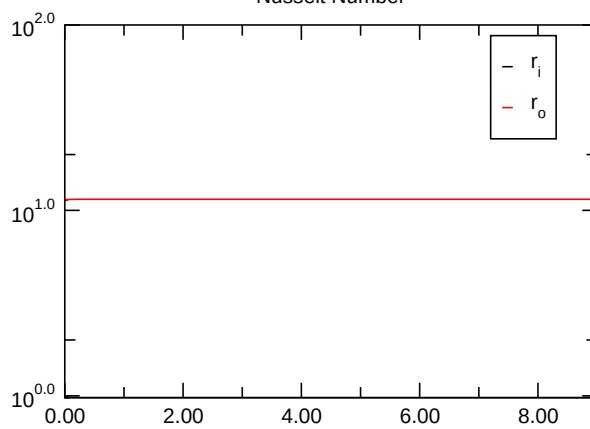
$E_{\text{kin,symm.}}$



$E_{\text{kin,asymm.}}$

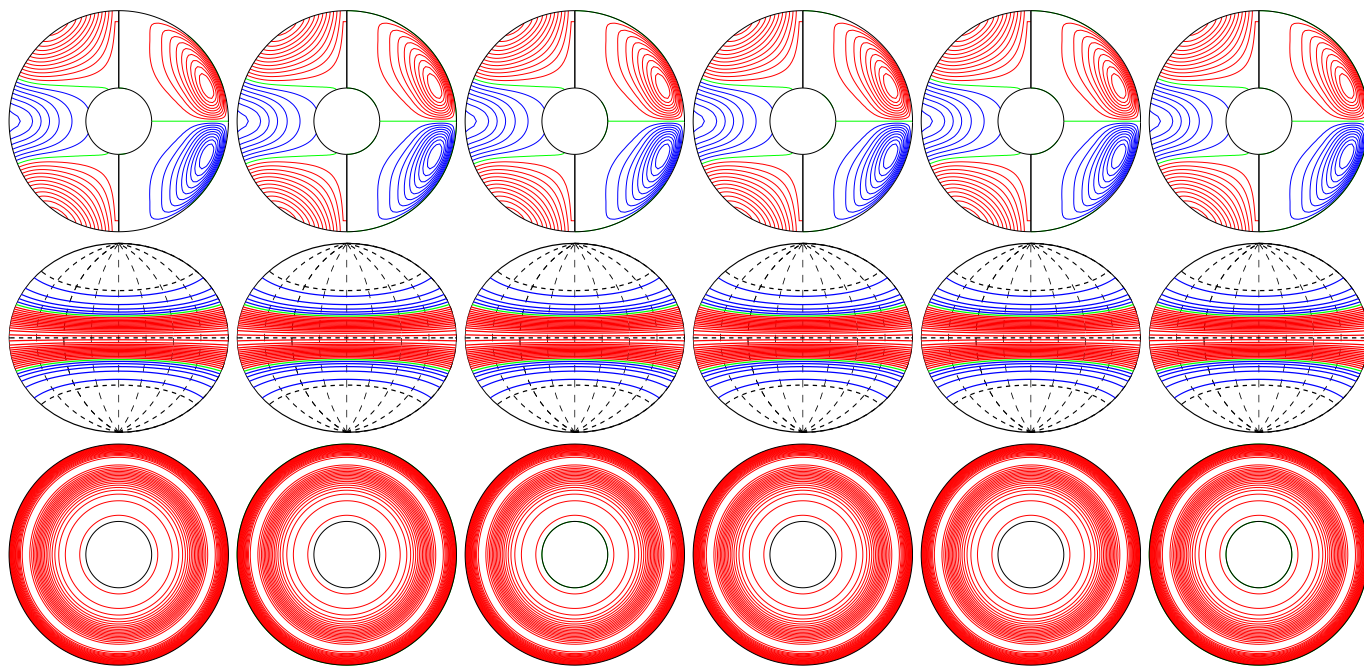


Nusselt Number

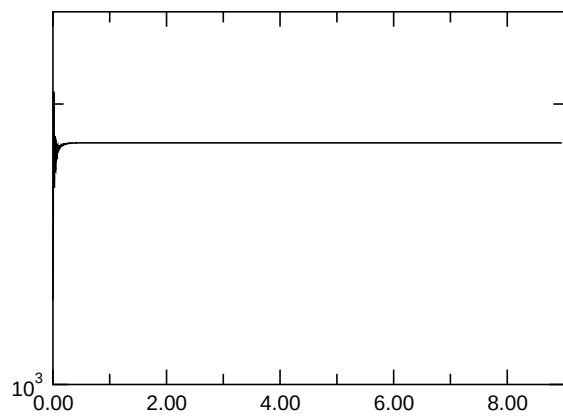


a.e03p1t03r-50000m1n2N2z4.8e4Y.8
times: 2.560002 3.840003 5.120004 6.400005 7.680006 8.960007

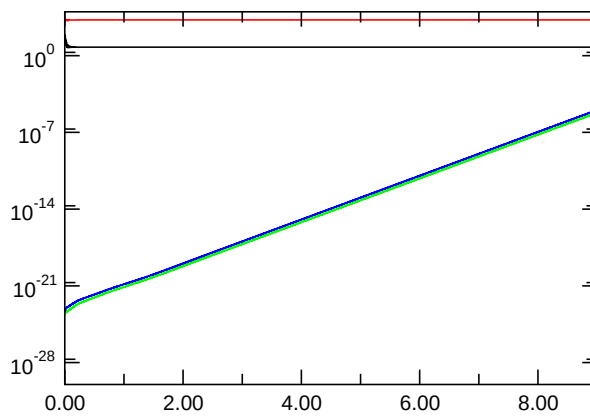
April 1, 2016



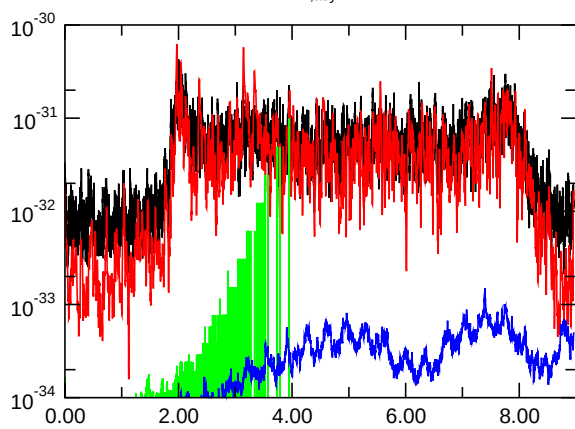
a.e03p1t03r-50000m1n2N2z4.8e4Y
 E_{kin}



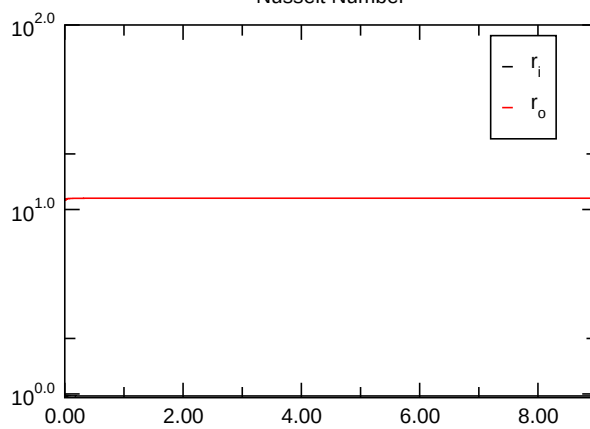
$E_{\text{kin,symm.}}$



$E_{\text{kin,asymm.}}$



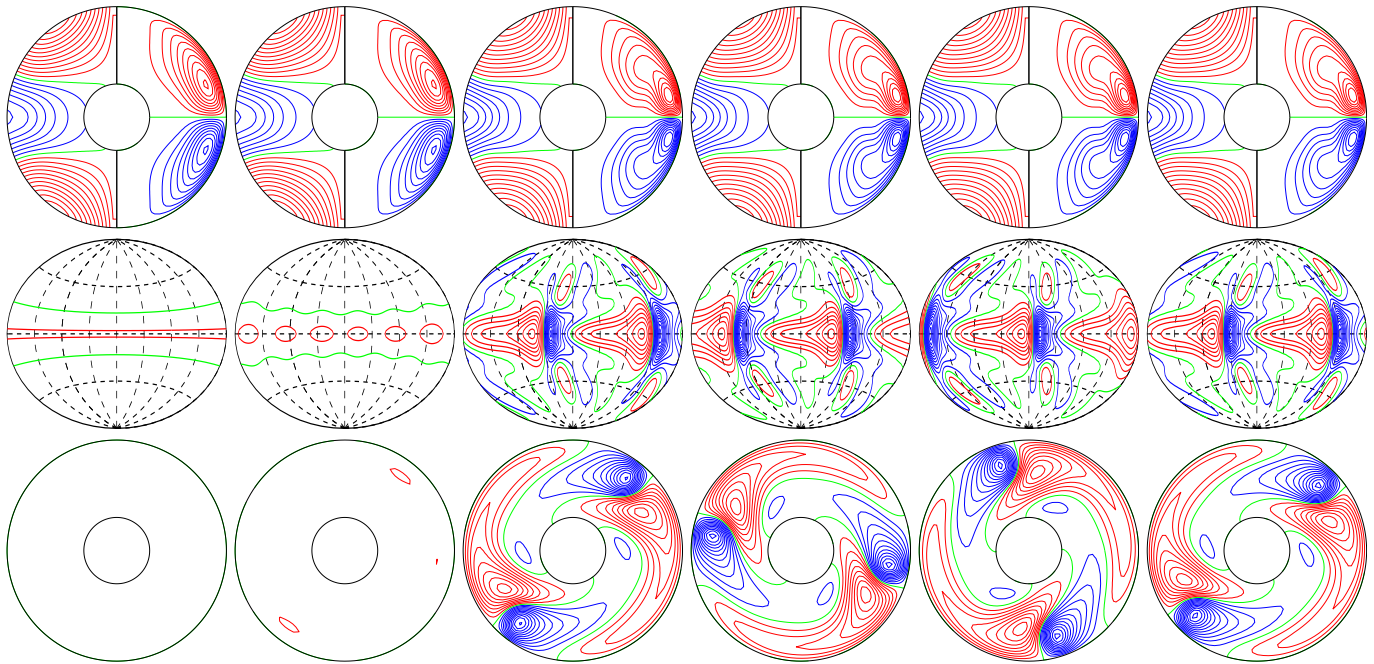
Nusselt Number



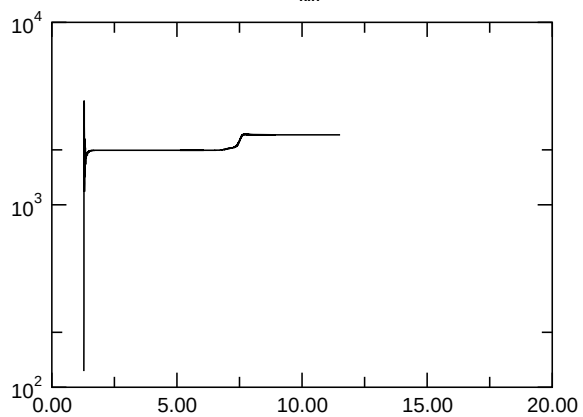
a.e03p1t03r-50000m1n2N2z5.0e4Y.9

April 1, 2016

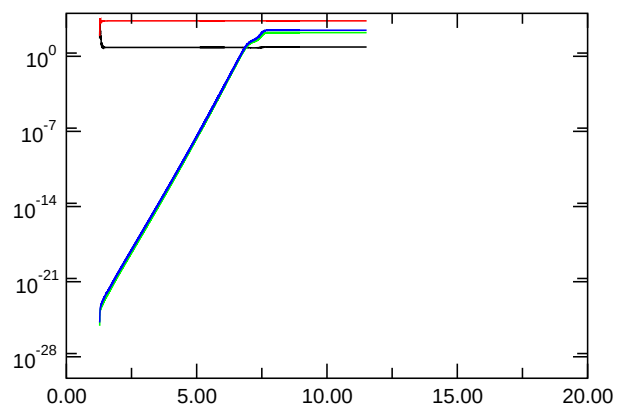
times: 5.120004 6.400005 7.680006 8.960007 10.24001 11.52001



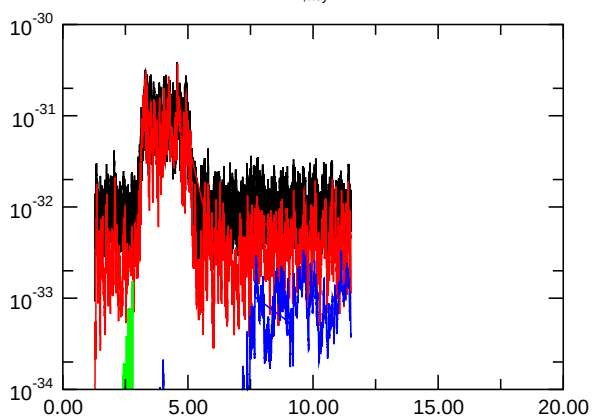
a.e03p1t03r-50000m1n2N2z5.0e4Y
 E_{kin}



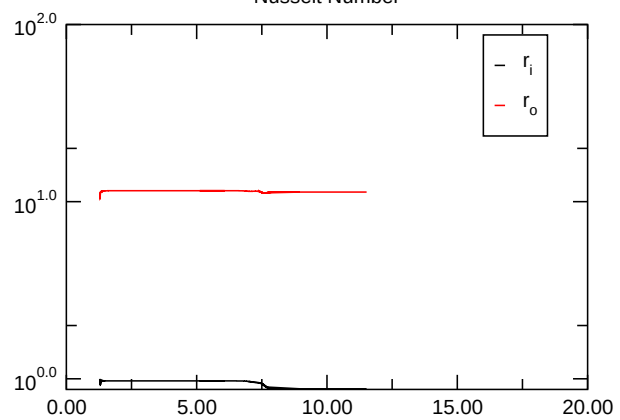
$E_{\text{kin,symm.}}$



$E_{\text{kin,asymm.}}$

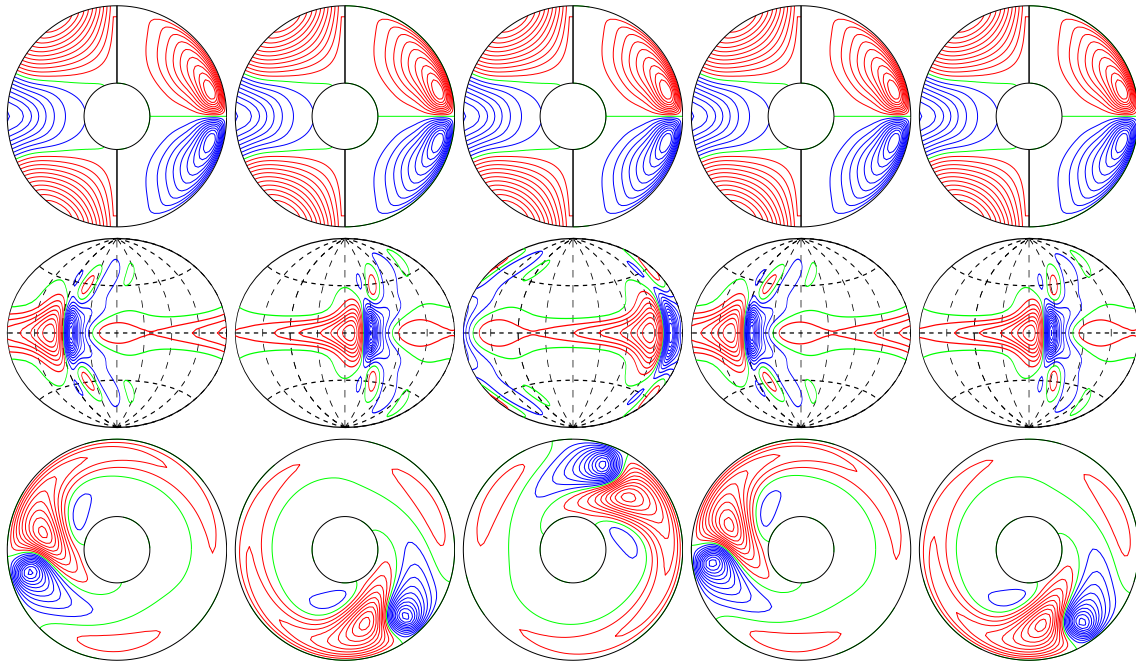


Nusselt Number

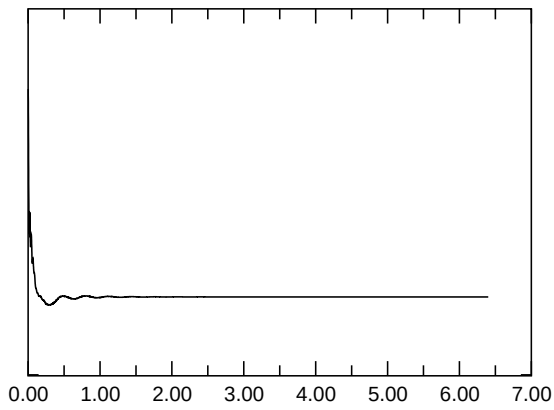


a.e03p1t03r-50000m1n2N2z5.2e4Ya.6
times: 1.280001 2.560002 3.840003 5.120004 6.400005

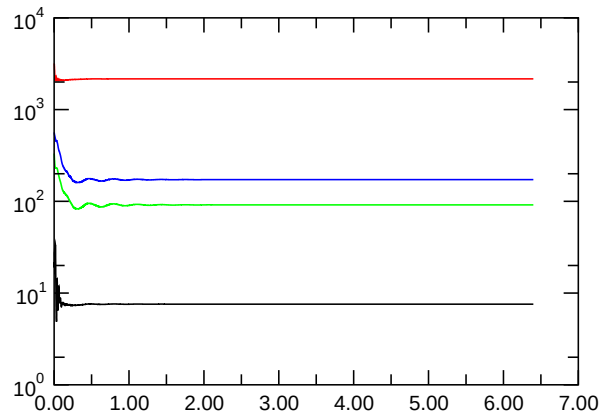
April 1, 2016



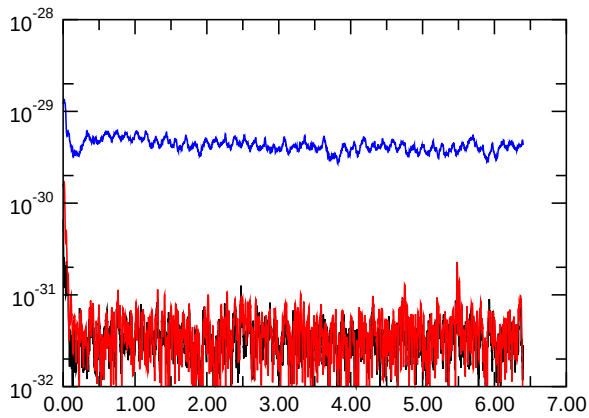
a.e03p1t03r-50000m1n2N2z5.2e4Ya
 E_{kin}



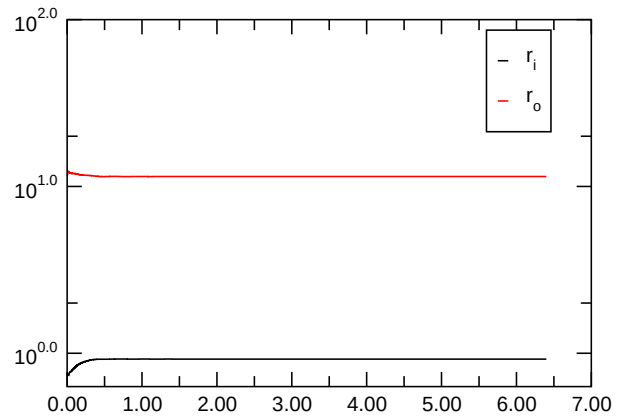
$E_{\text{kin,symm.}}$



$E_{\text{kin,asymm.}}$

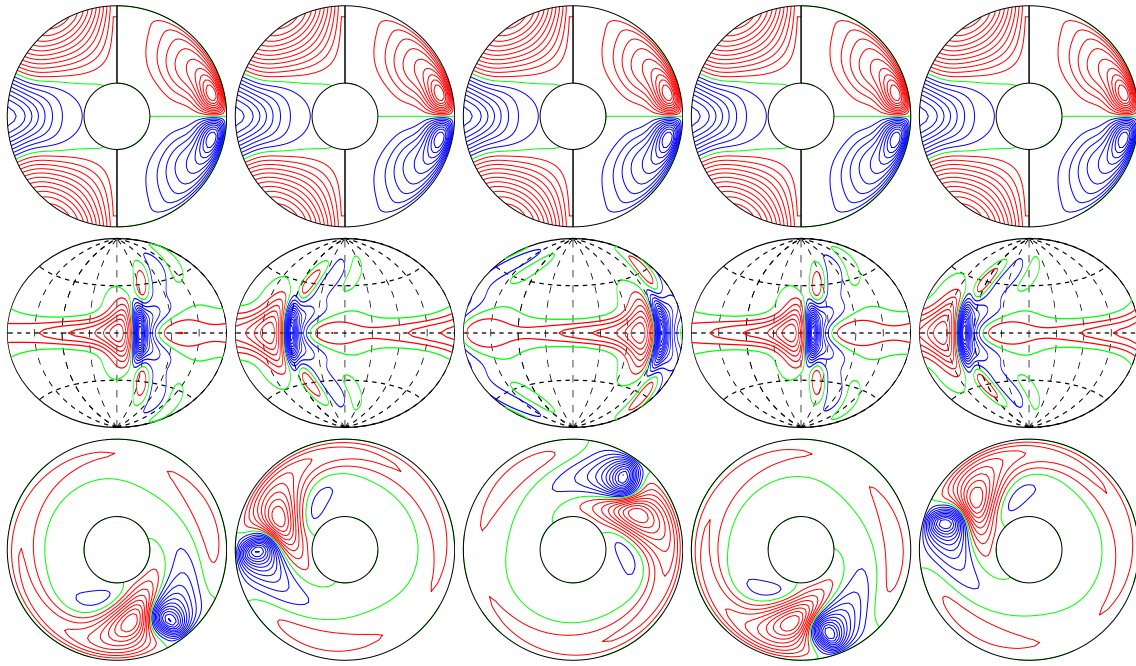


Nusselt Number

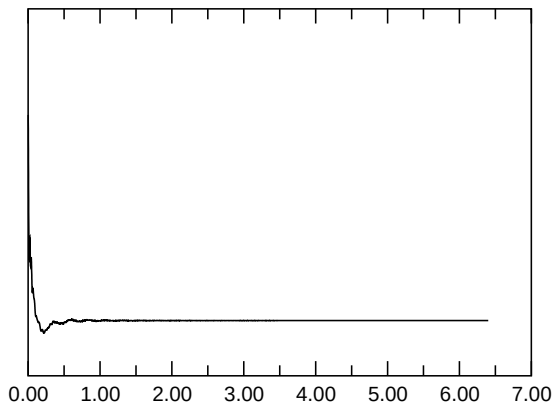


a.e03p1t03r-50000m1n2N2z5.4e4Ya.6
times: 1.280001 2.560002 3.840003 5.120004 6.400005

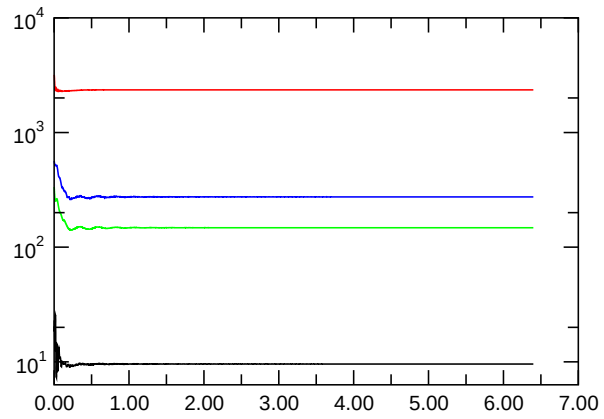
April 1, 2016



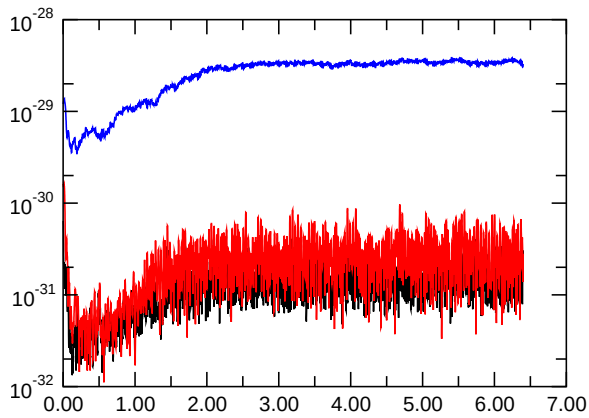
a.e03p1t03r-50000m1n2N2z5.4e4Ya
 E_{kin}



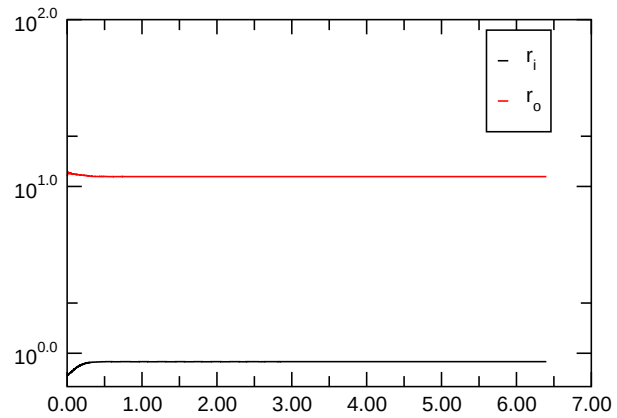
$E_{\text{kin,symm.}}$



$E_{\text{kin,asymm.}}$

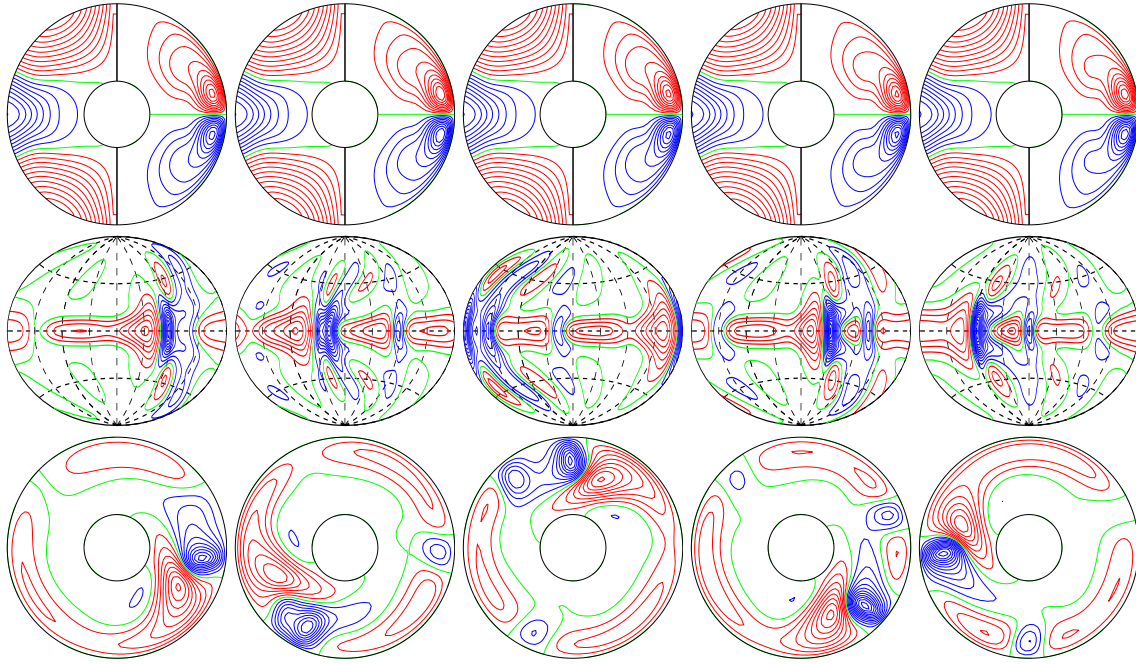


Nusselt Number

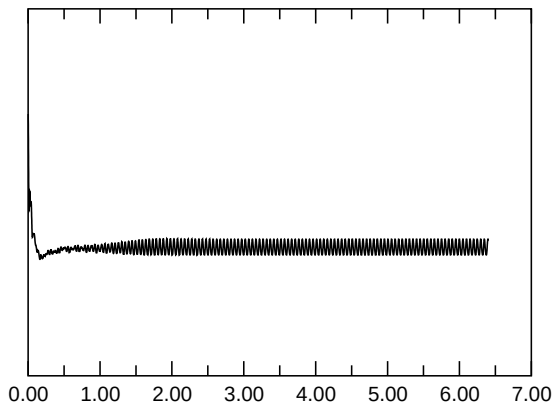


a.e03p1t03r-50000m1n2N2z5.6e4Ya.6
times: 1.280001 2.560002 3.840003 5.120004 6.400005

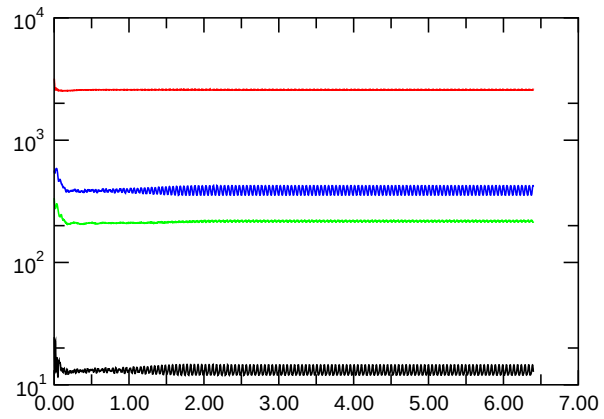
April 1, 2016



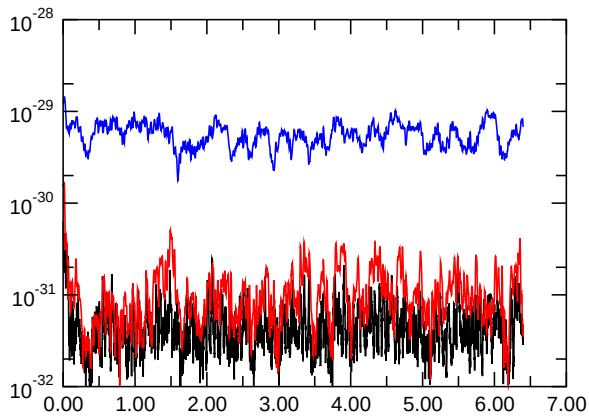
a.e03p1t03r-50000m1n2N2z5.6e4Ya
 E_{kin}



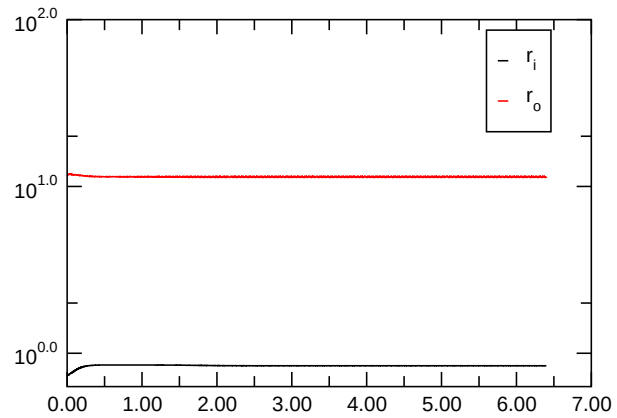
$E_{\text{kin,symm.}}$



$E_{\text{kin,asymm.}}$

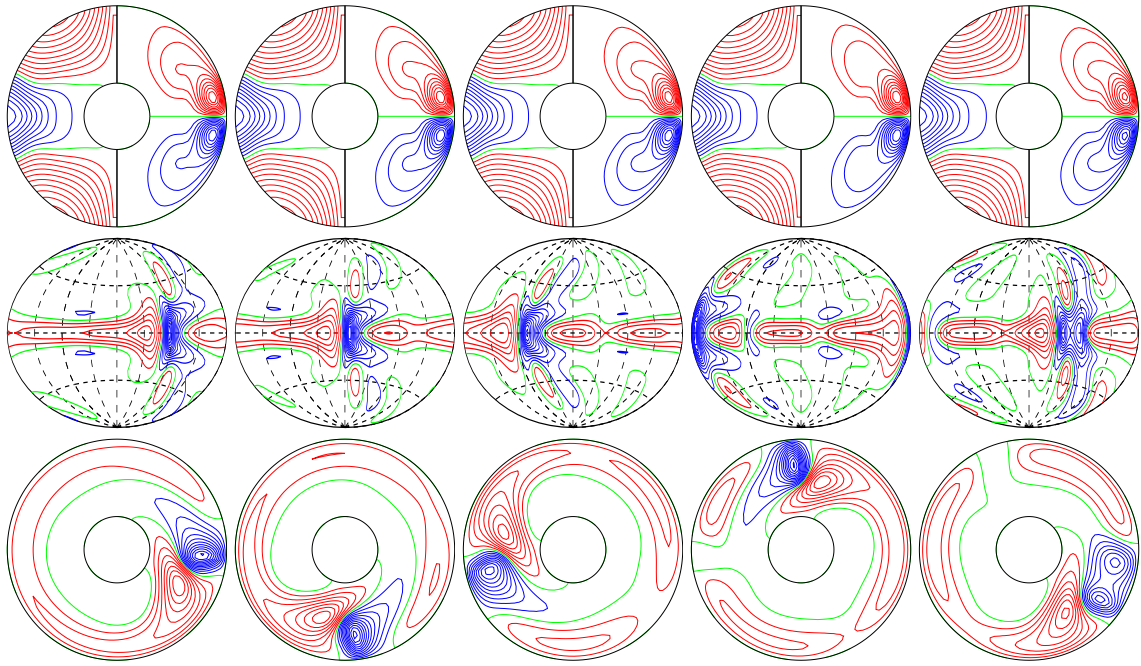


Nusselt Number

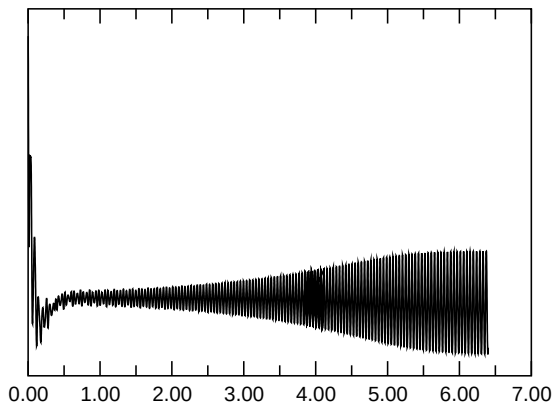


a.e03p1t03r-50000m1n2N2z5.8e4Ya.6
times: 1.280001 2.560002 3.840003 5.120004 6.400005

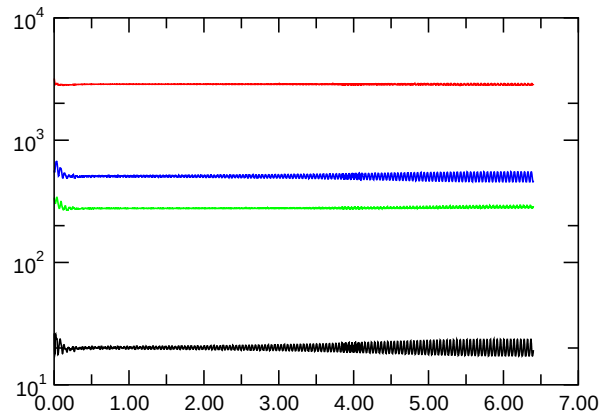
April 1, 2016



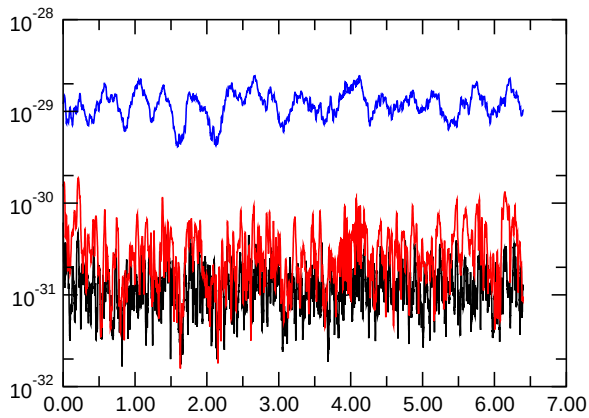
a.e03p1t03r-50000m1n2N2z5.8e4Ya
 E_{kin}



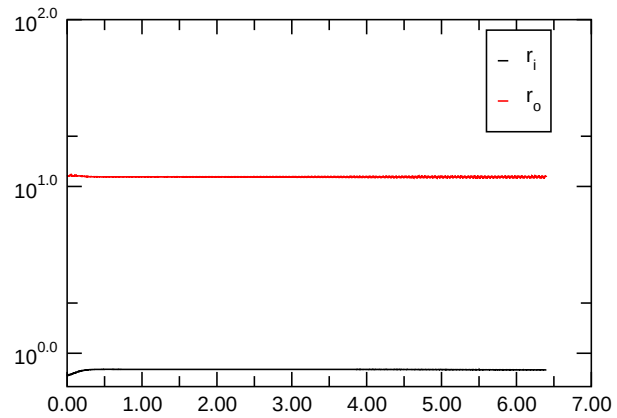
$E_{\text{kin,symm.}}$



$E_{\text{kin,asymm.}}$



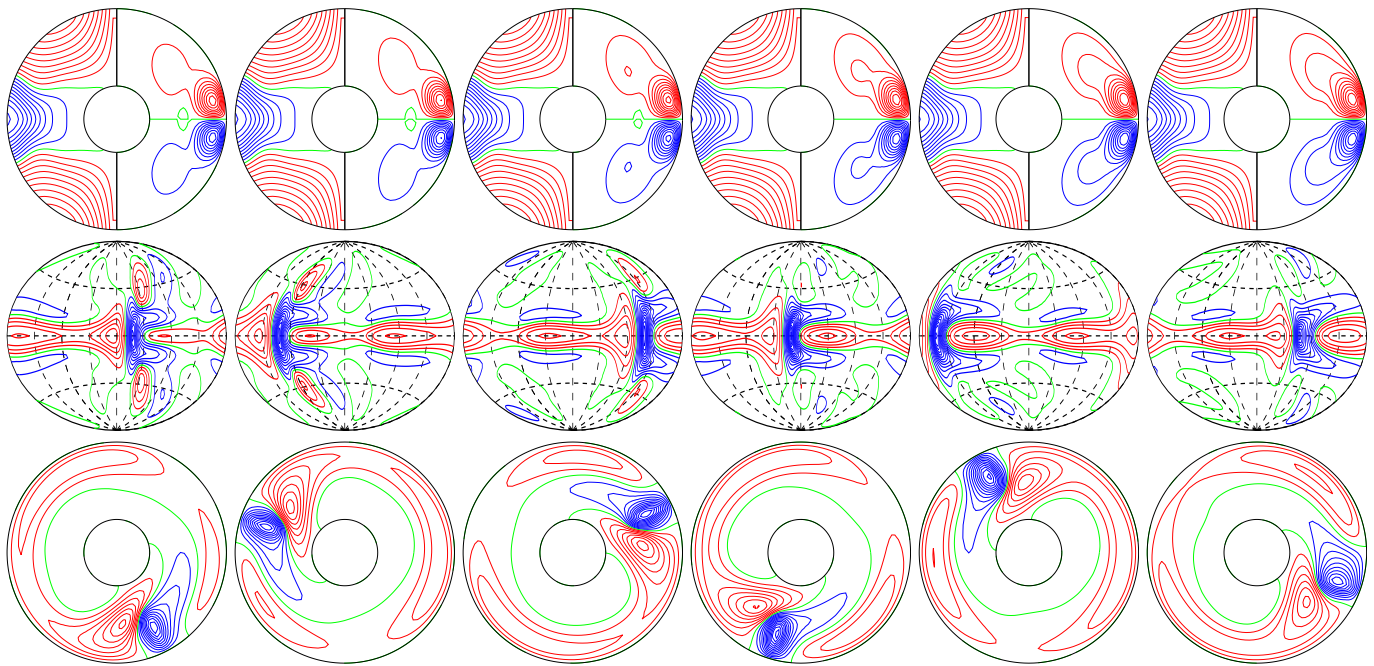
Nusselt Number



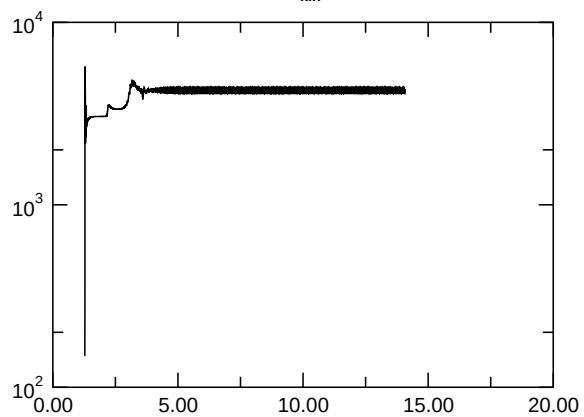
a.e03p1t03r-50000m1n2N2z6.0e4Y.11

times: 7.680006 8.960007 10.24001 11.52001 12.80001 14.08001

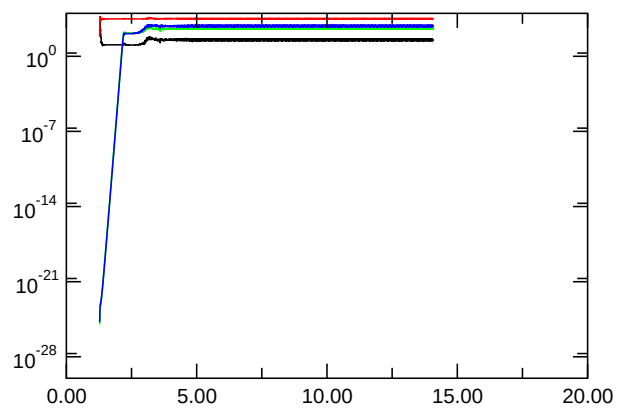
April 1, 2016



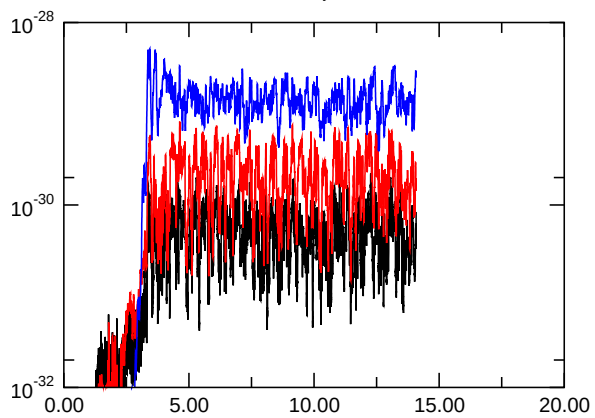
a.e03p1t03r-50000m1n2N2z6.0e4Y
 E_{kin}



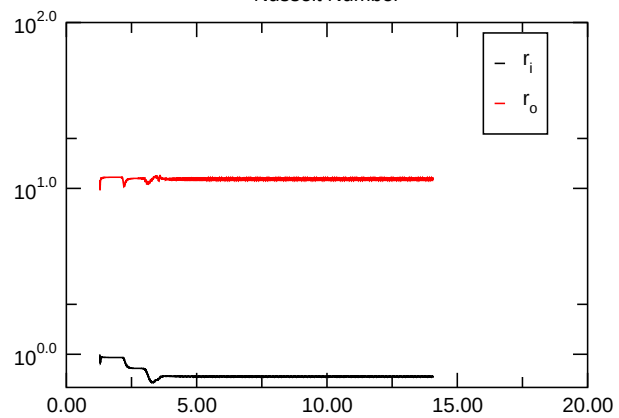
$E_{\text{kin,symm.}}$



$E_{\text{kin,asymm.}}$



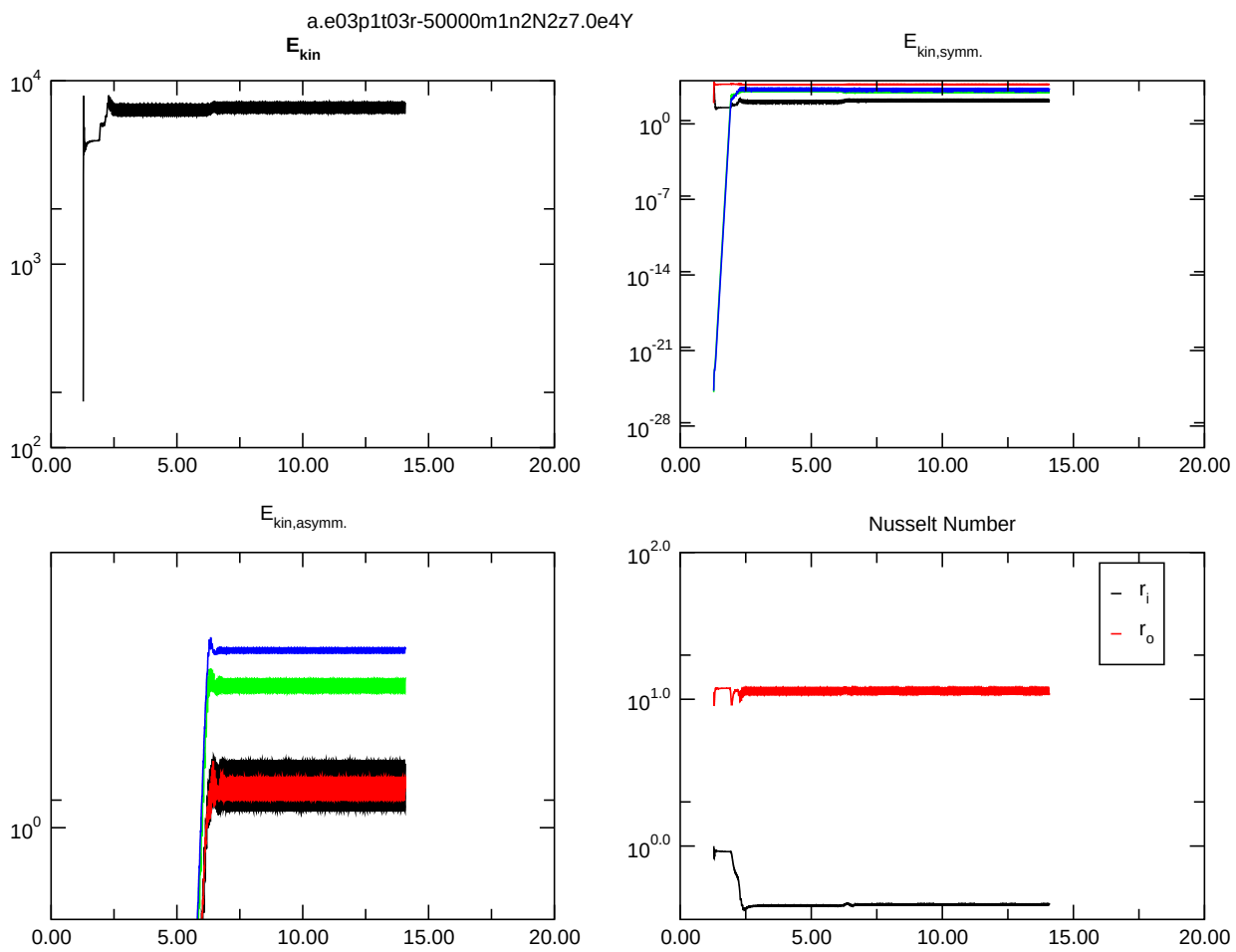
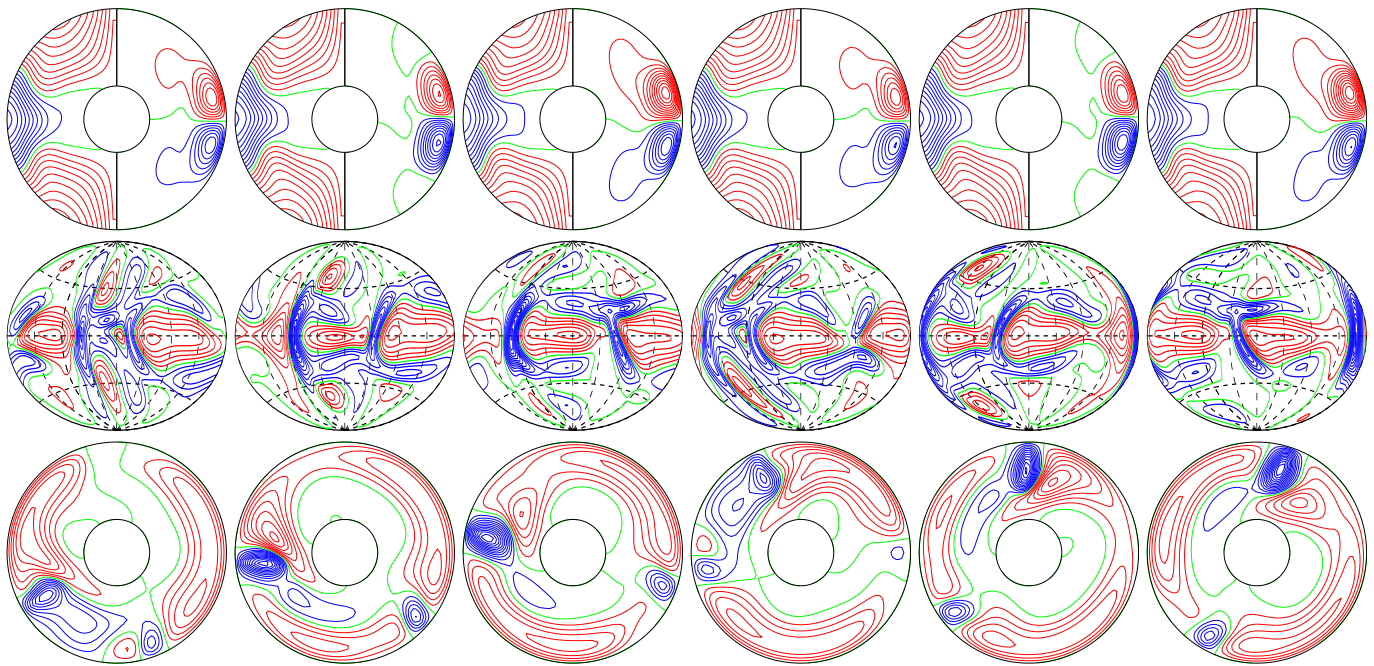
Nusselt Number



a.e03p1t03r-50000m1n2N2z7.0e4Y.11

times: 7.680006 8.960007 10.24001 11.52001 12.80001 14.08001

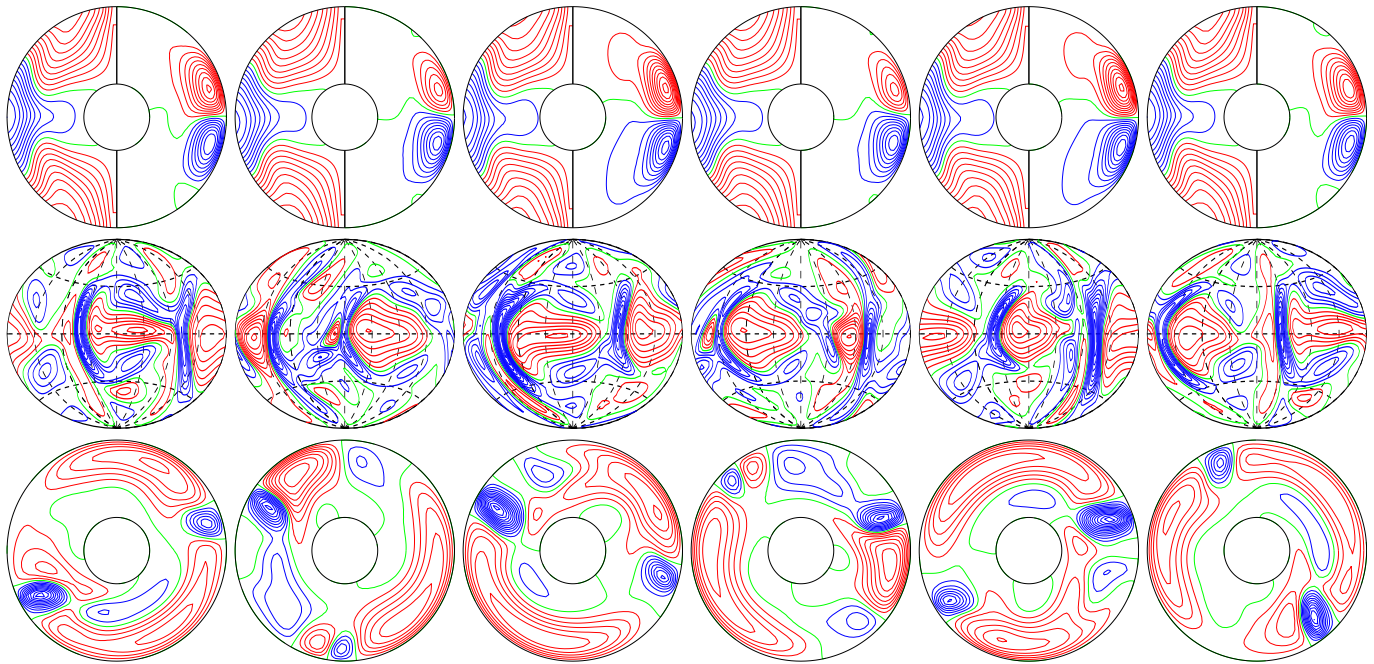
April 1, 2016



a.e03p1t03r-50000m1n2N2z8.0e4Y.10

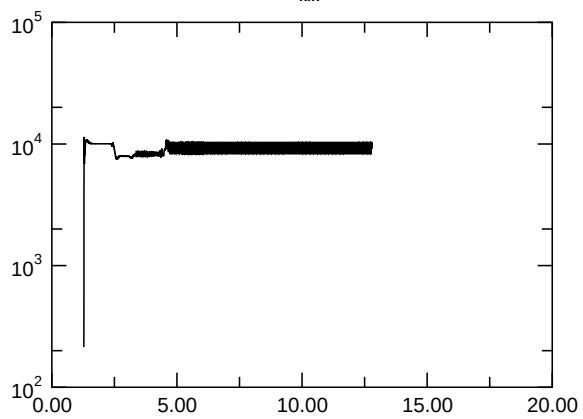
times: 5.120004 6.400005 7.680006 10.24001 11.52001 12.80001

April 1, 2016

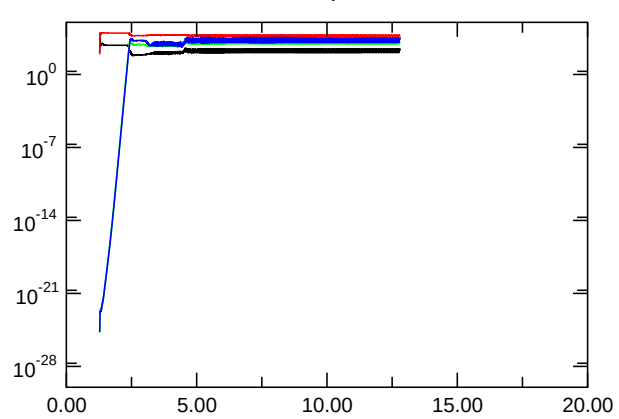


a.e03p1t03r-50000m1n2N2z8.0e4Y

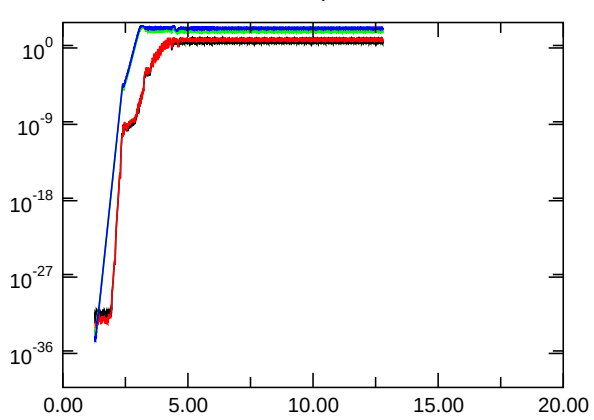
E_{kin}



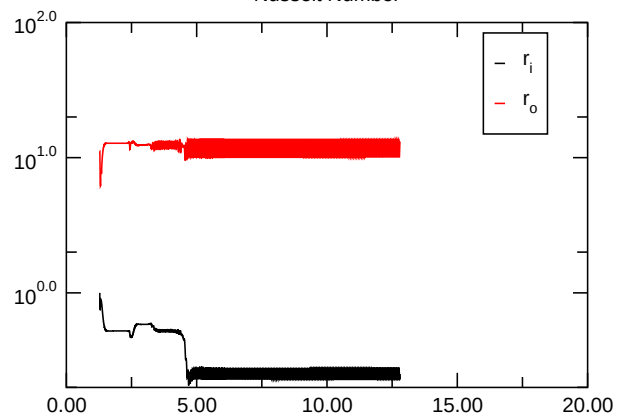
$E_{\text{kin,symm.}}$



$E_{\text{kin,asymm.}}$

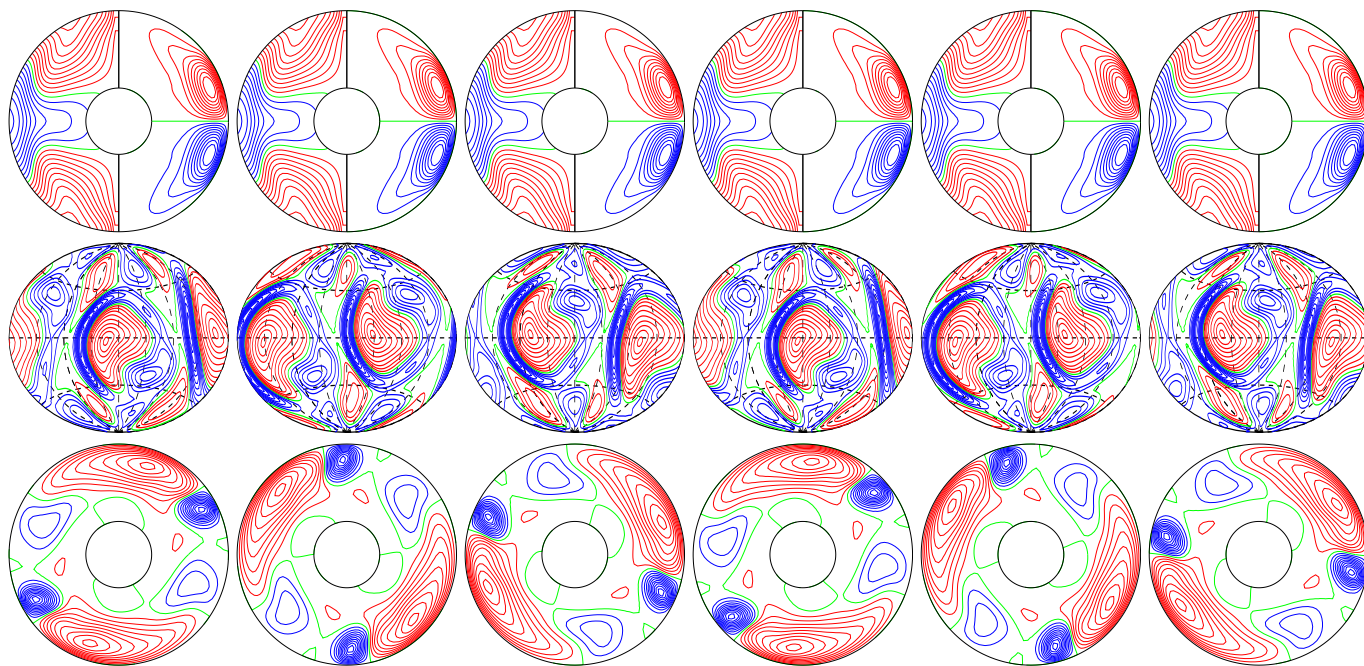


Nusselt Number



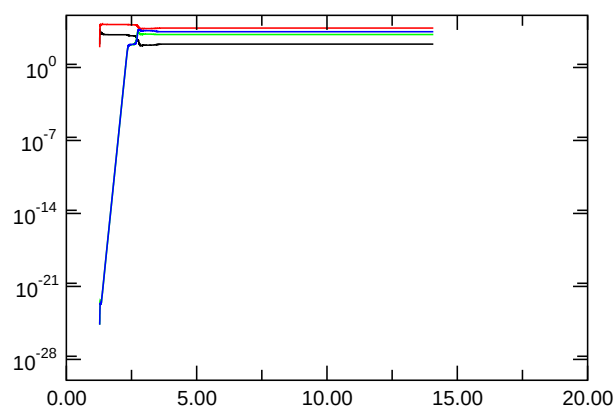
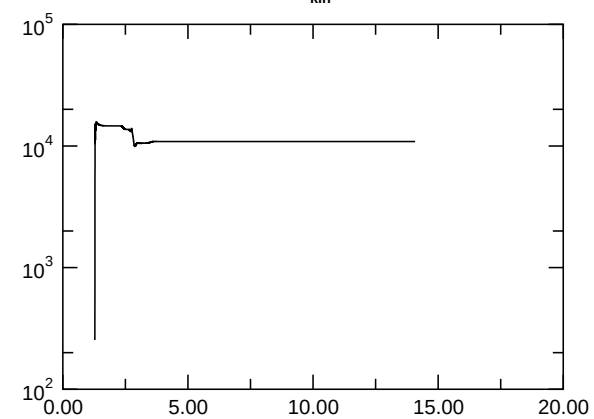
a.e03p1t03r-50000m1n2N2z9.0e4Y.11
times: 7.680006 8.960007 10.24001 11.52001 12.80001 14.08001

April 1, 2016



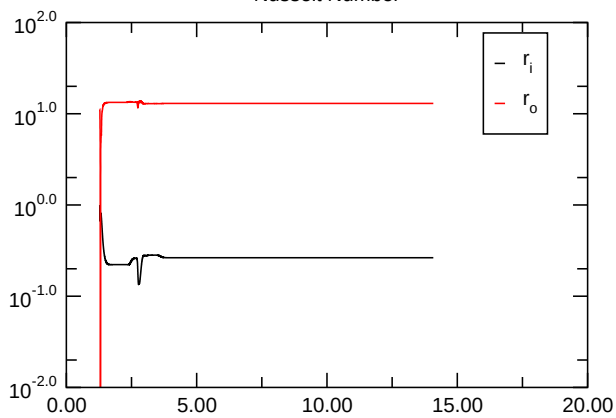
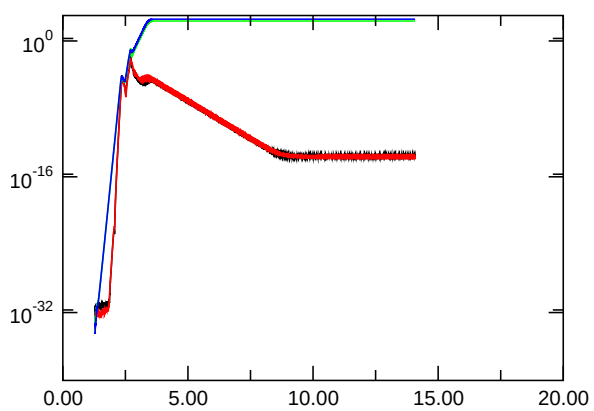
a.e03p1t03r-50000m1n2N2z9.0e4Y
 E_{kin}

$E_{\text{kin, symm.}}$



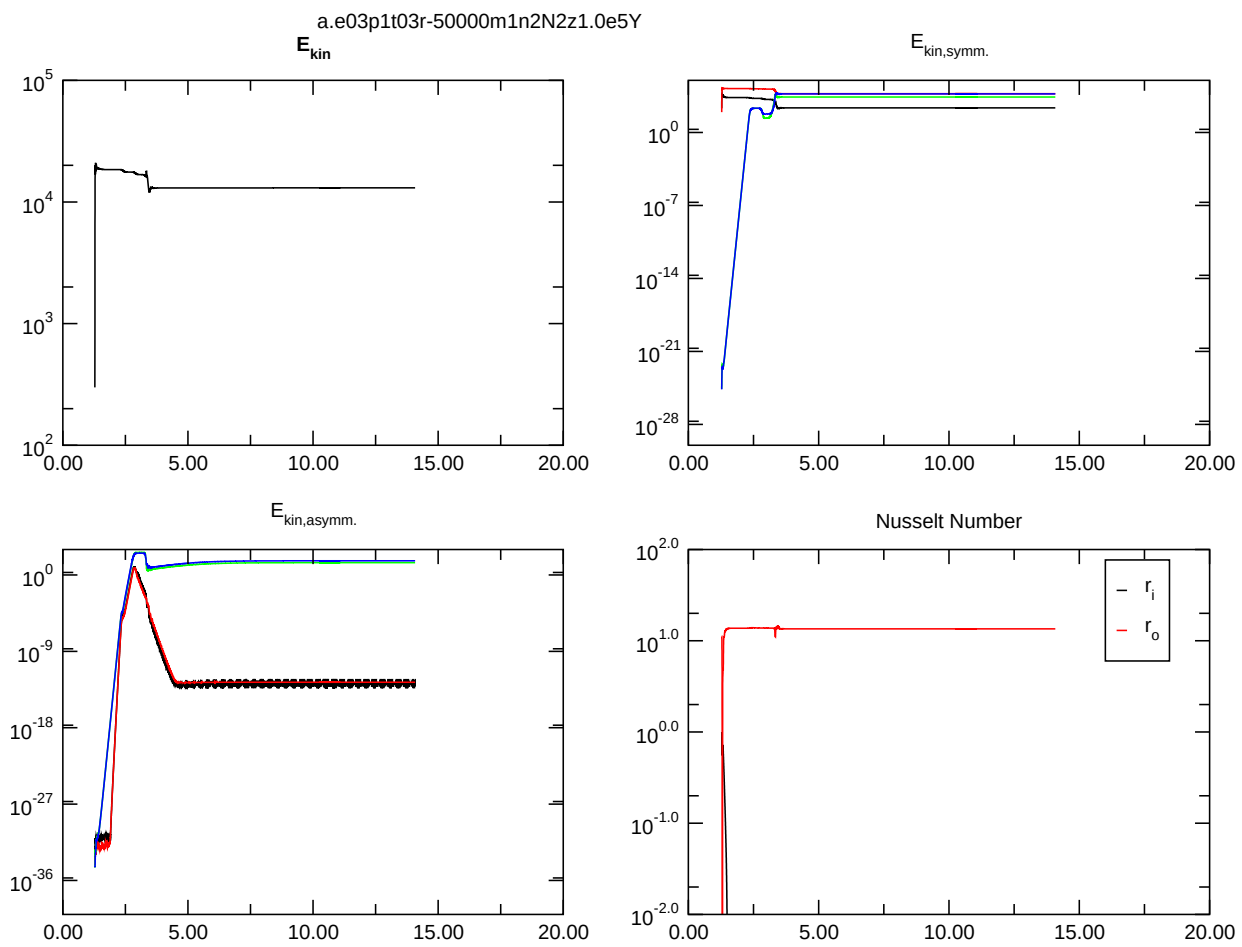
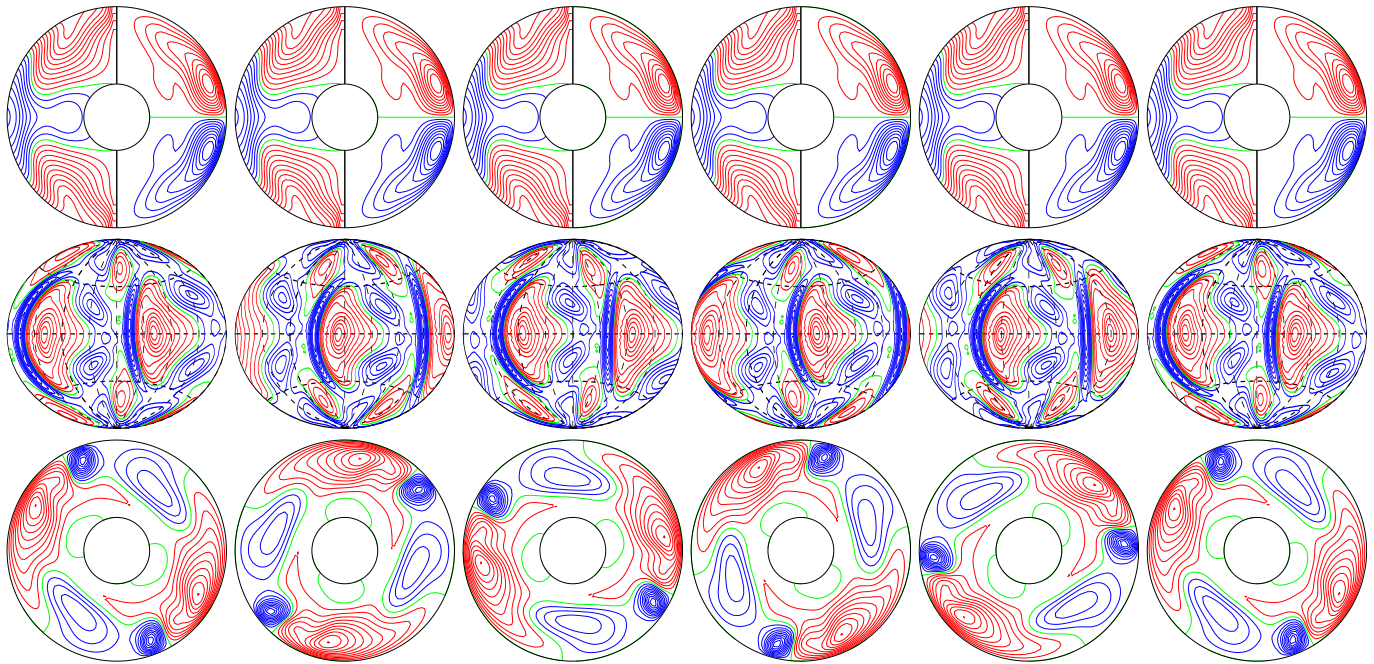
$E_{\text{kin, asymm.}}$

Nusselt Number



a.e03p1t03r-50000m1n2N2z1.0e5Y.11
times: 7.680006 8.960007 10.24001 11.52001 12.80001 14.08001

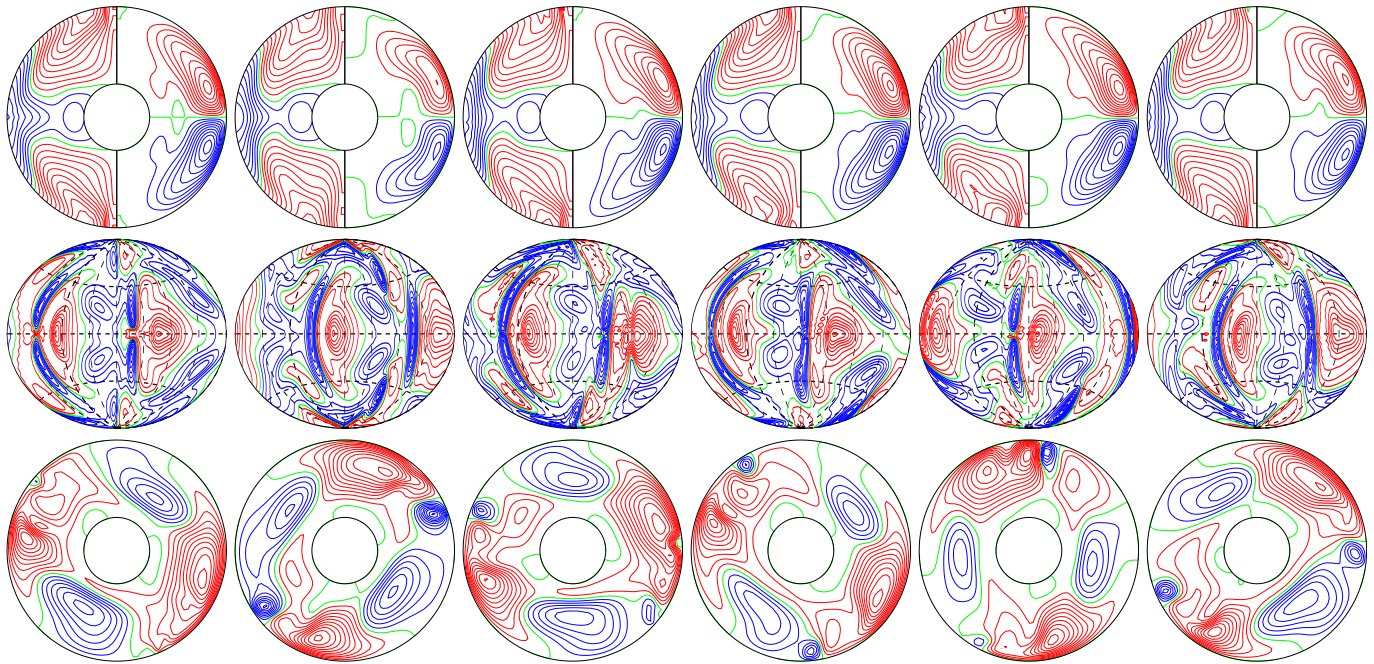
April 1, 2016



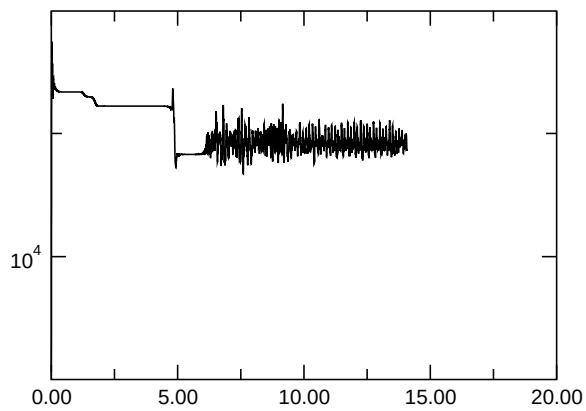
a.e03p1t03r-50000m1n2N2z1.2e5Y.12

times: 7.680006 8.960007 10.24001 11.52001 12.80001 14.08001

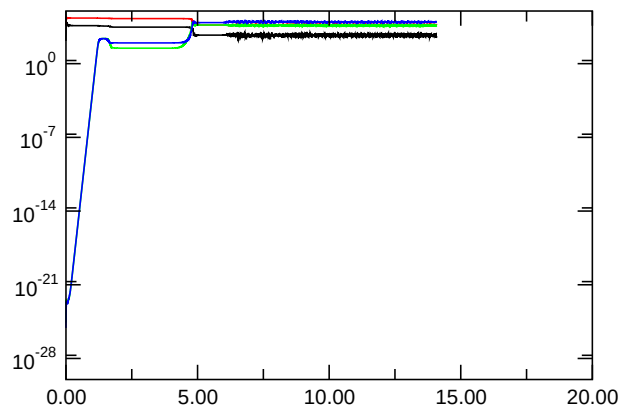
April 1, 2016



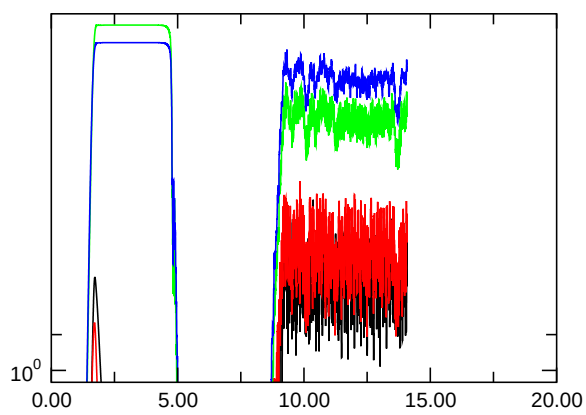
a.e03p1t03r-50000m1n2N2z1.2e5Y
 E_{kin}



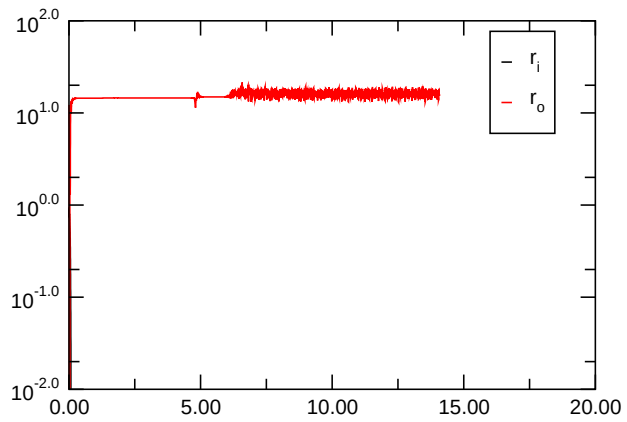
$E_{\text{kin,symm.}}$



$E_{\text{kin,asymm.}}$



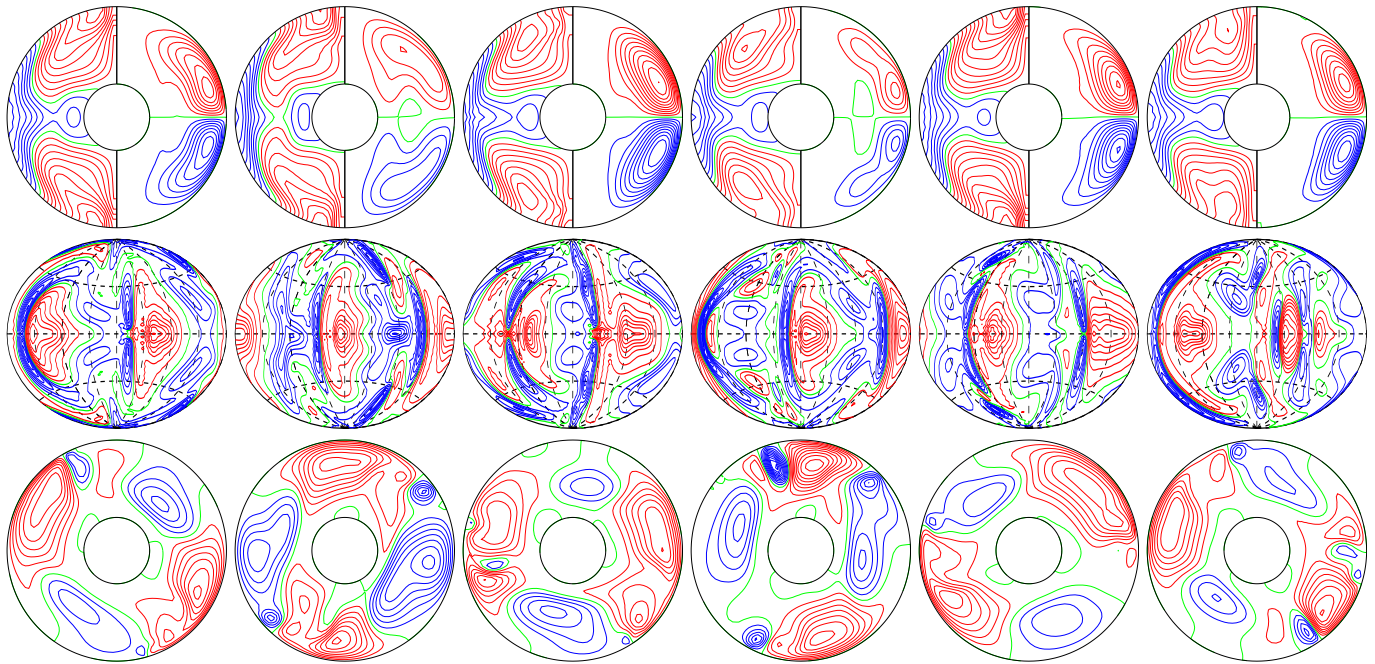
Nusselt Number



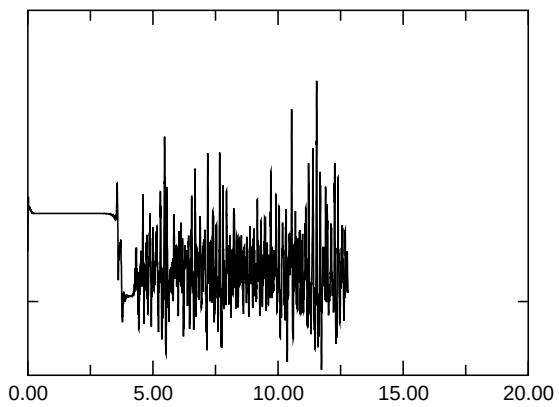
a.e03p1t03r-50000m1n2N2z1.3e5Y.17

times: 6.400005 7.680006 8.960007 10.24001 11.52001 12.80001

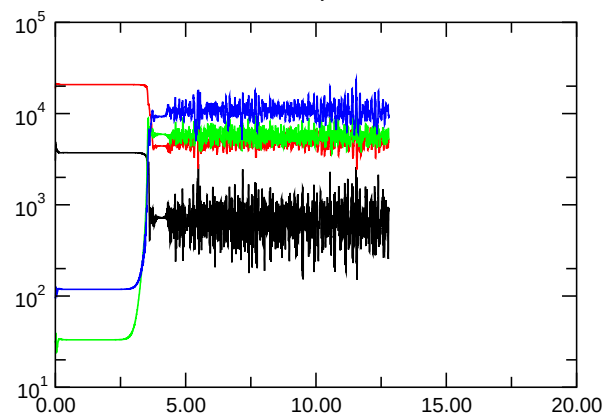
April 1, 2016



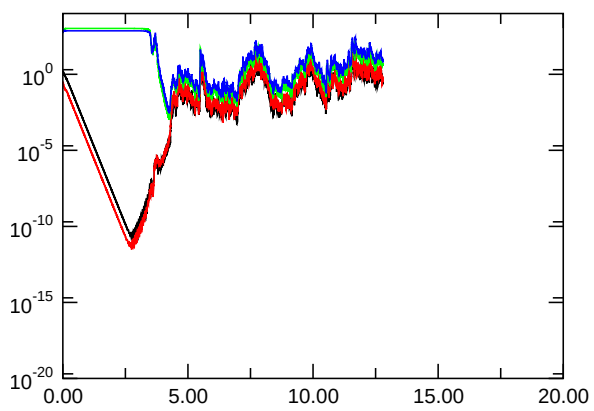
a.e03p1t03r-50000m1n2N2z1.3e5Y
 E_{kin}



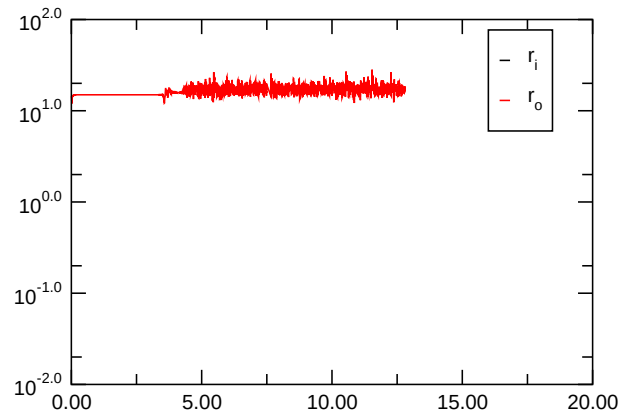
$E_{\text{kin,symm.}}$



$E_{\text{kin,asymm.}}$



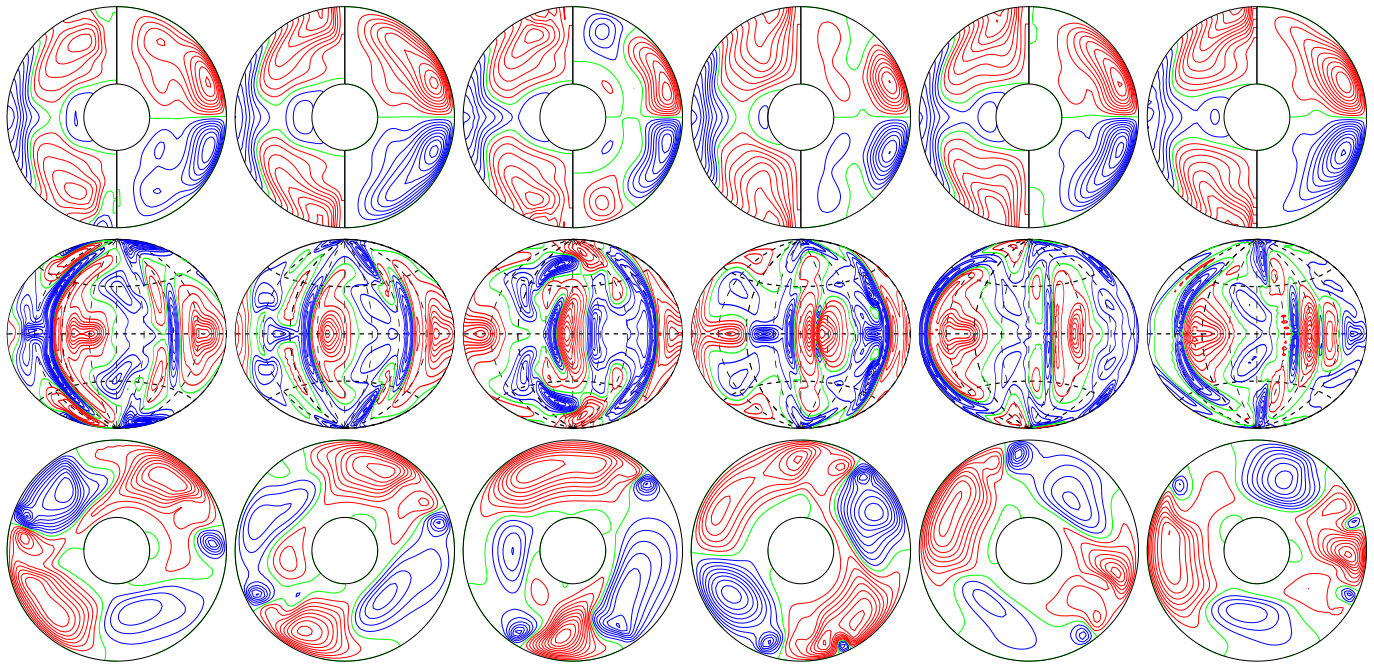
Nusselt Number



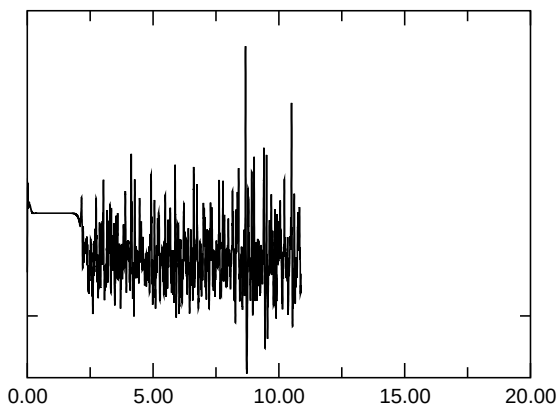
a.e03p1t03r-50000m1n2N2z1.4e5Y.11

April 1, 2016

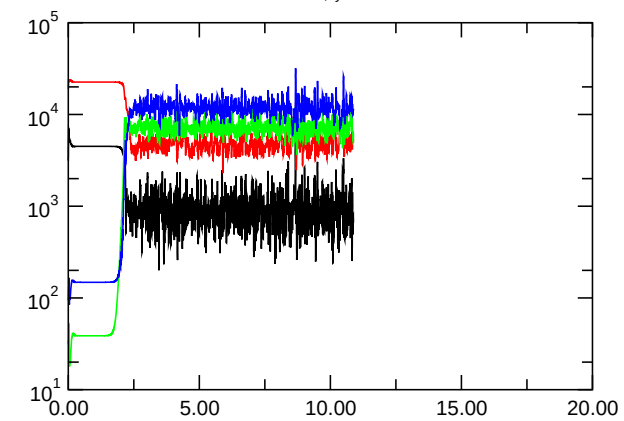
times: 4.480004 5.760005 7.040006 8.320007 9.600008 10.88001



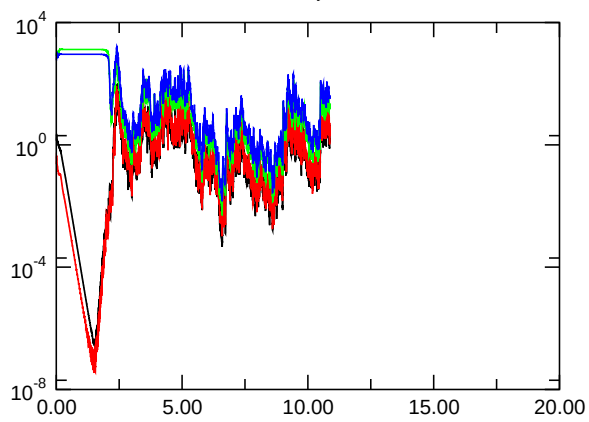
a.e03p1t03r-50000m1n2N2z1.4e5Y
 E_{kin}



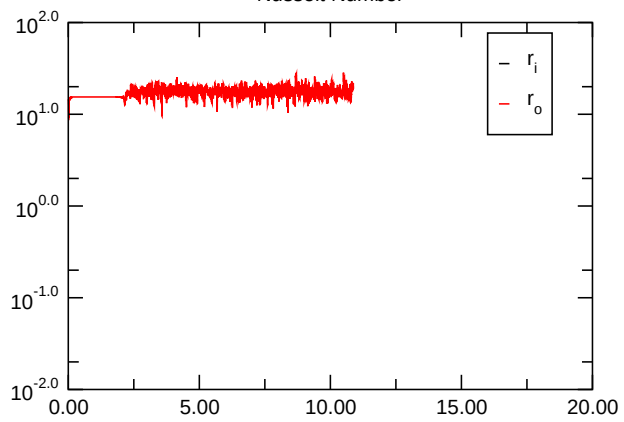
$E_{\text{kin,symm.}}$



$E_{\text{kin,asymm.}}$



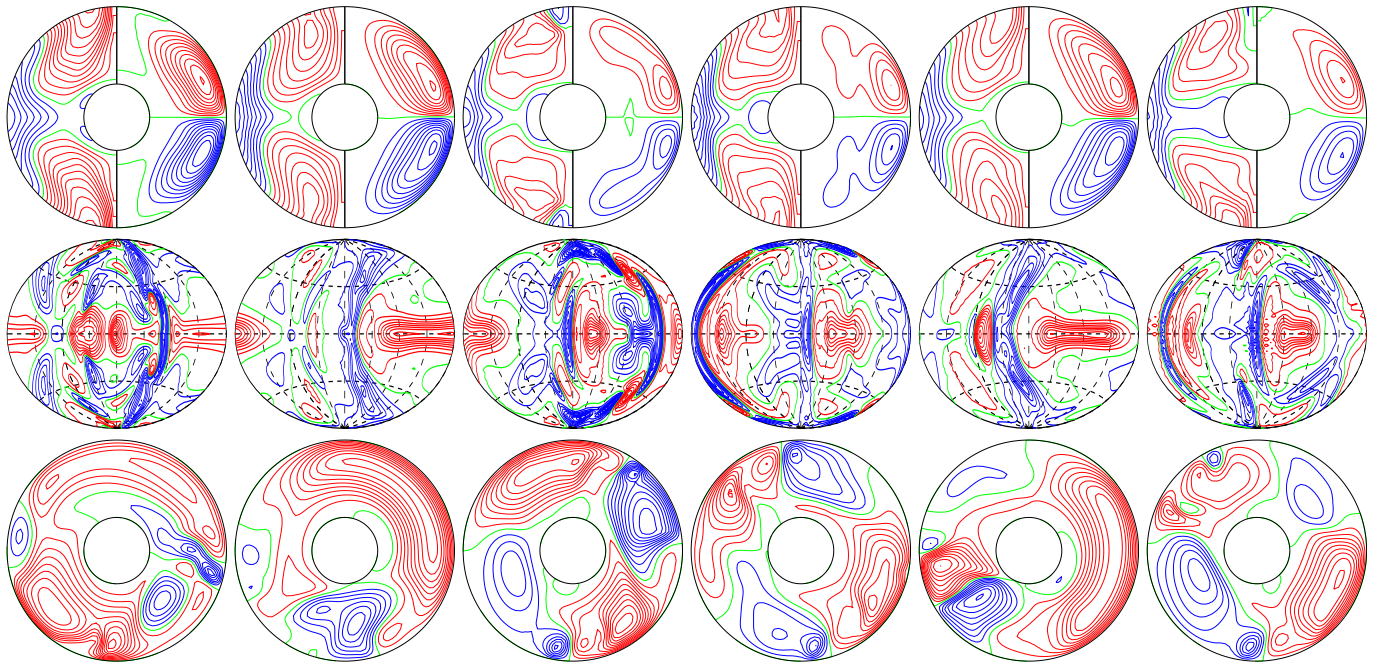
Nusselt Number



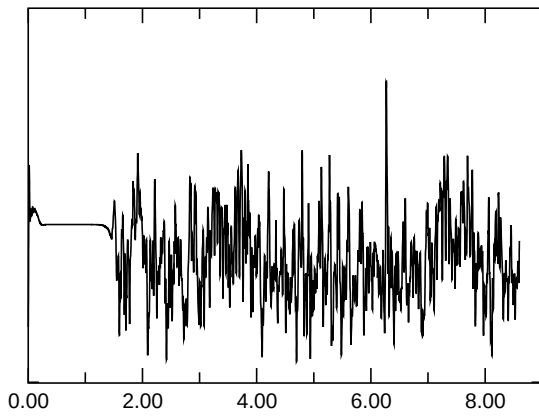
a.e03p1t03r-50000m1n2N2z1.5e5Y.9

times: 1.920002 3.200003 4.480004 5.760005 7.040006 8.320007

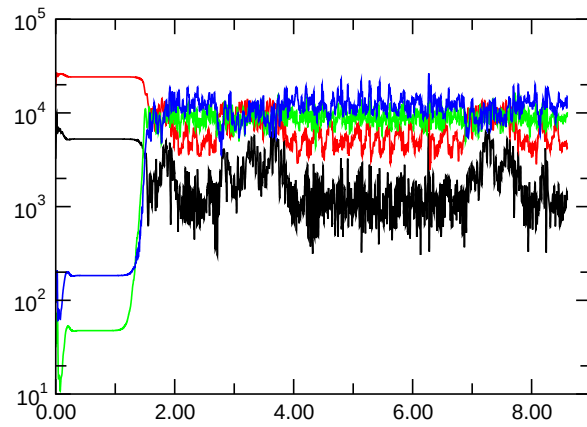
April 1, 2016



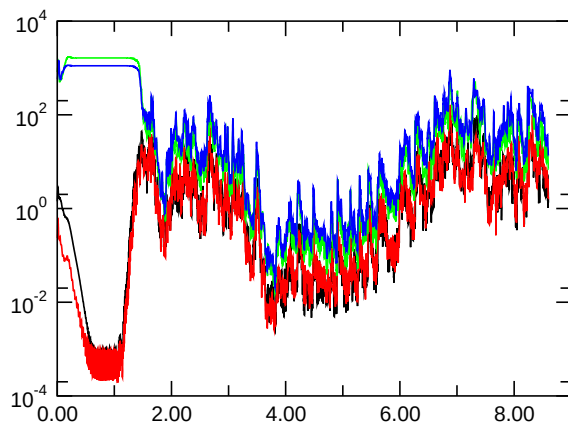
a.e03p1t03r-50000m1n2N2z1.5e5Y
 E_{kin}



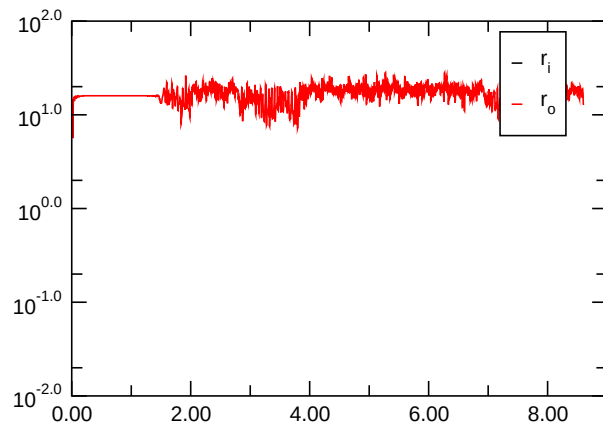
$E_{\text{kin, symm.}}$



$E_{\text{kin, asymm.}}$



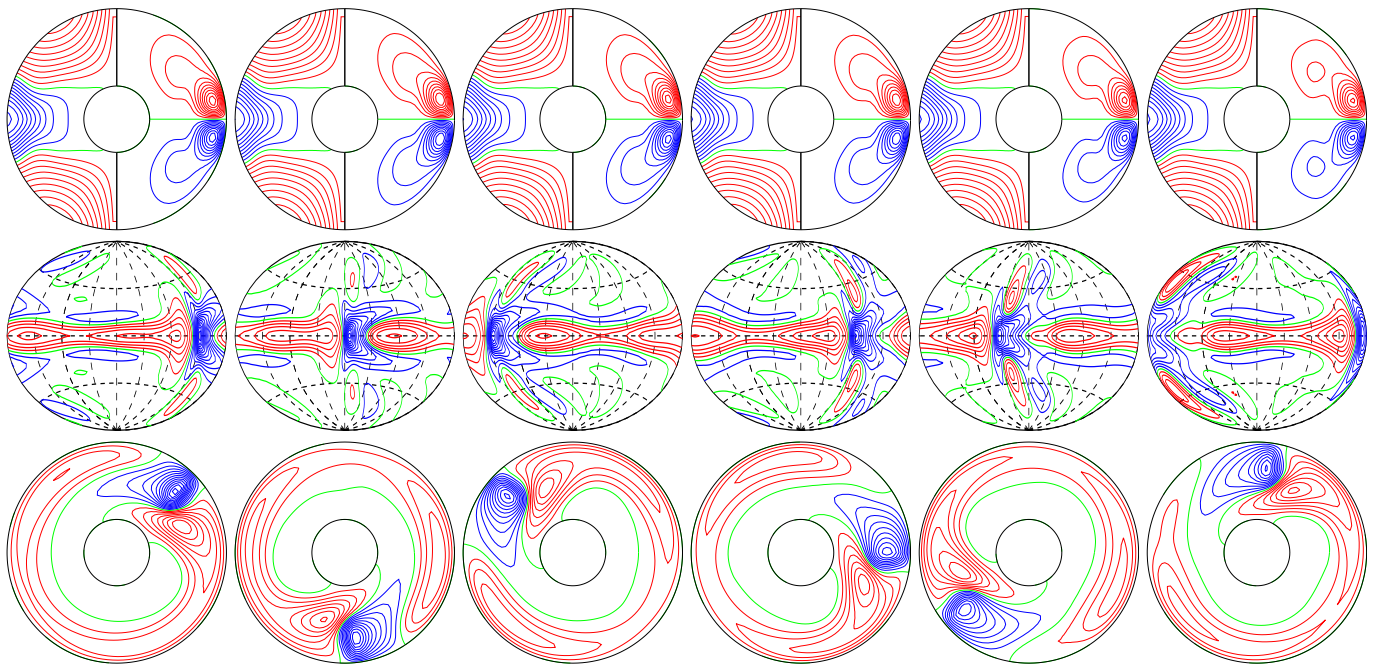
Nusselt Number



a.e03p1t03r-50000m1n2N2z6.0e4Ya.9

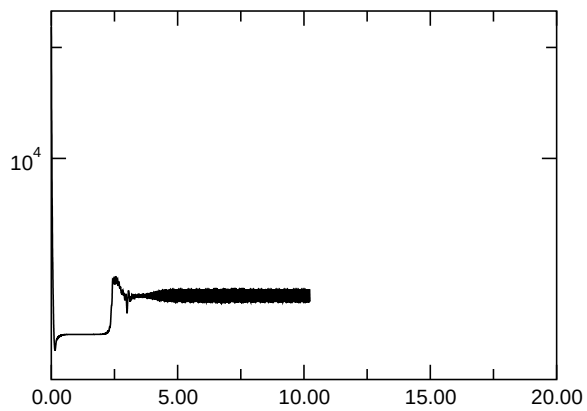
times: 3.840003 5.120004 6.400005 7.680006 8.960007 10.24001

April 1, 2016

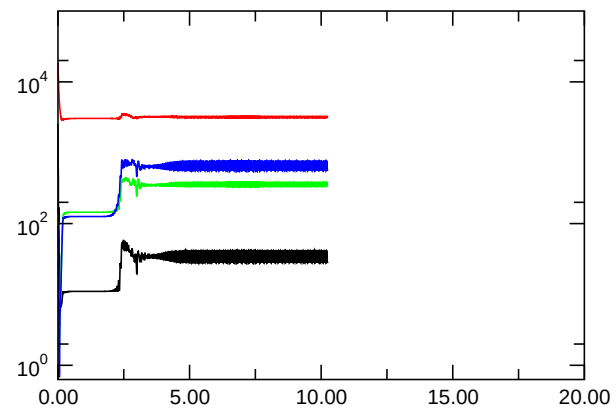


a.e03p1t03r-50000m1n2N2z6.0e4Ya

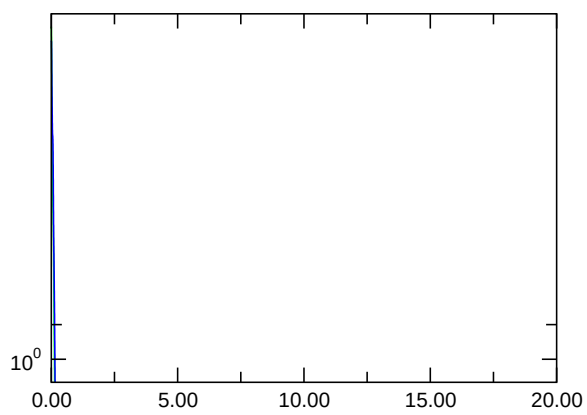
E_{kin}



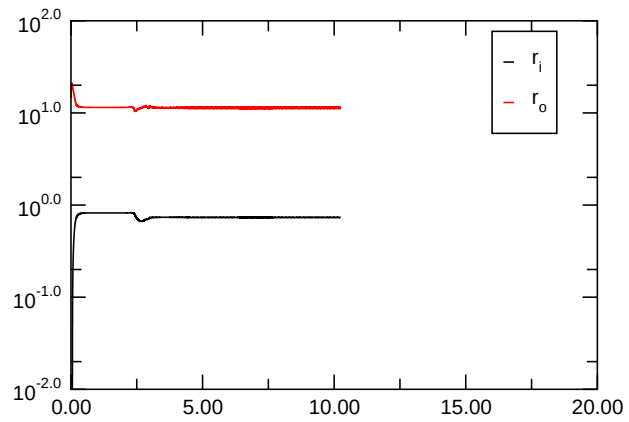
$E_{\text{kin,symm.}}$



$E_{\text{kin,asymm.}}$

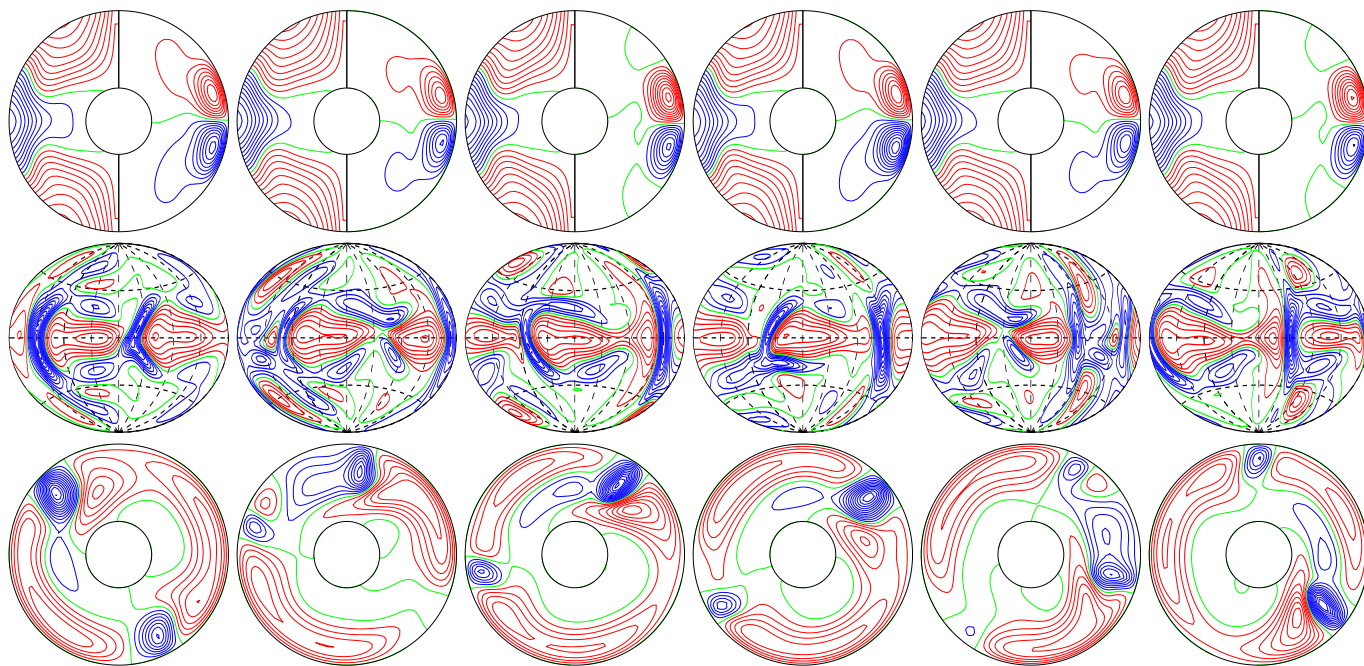


Nusselt Number

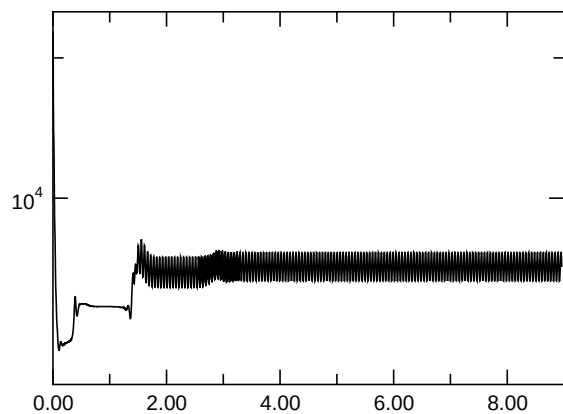


a.e03p1t03r-50000m1n2N2z7.0e4Ya.8
times: 2.560002 3.840003 5.120004 6.400005 7.680006 8.960007

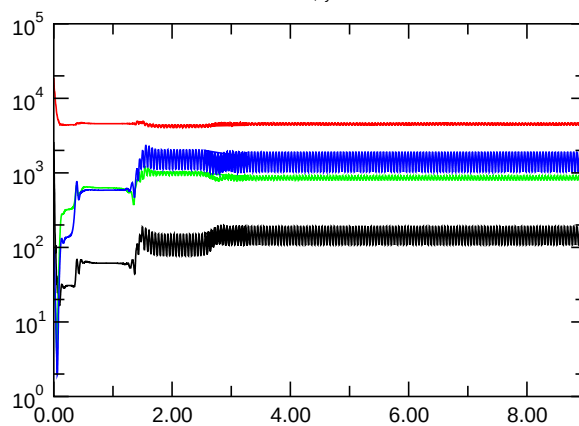
April 1, 2016



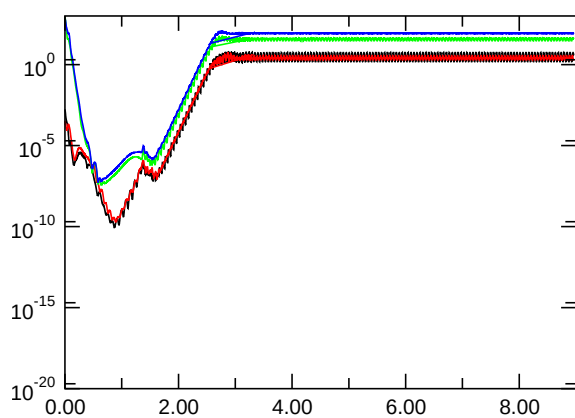
a.e03p1t03r-50000m1n2N2z7.0e4Ya
 E_{kin}



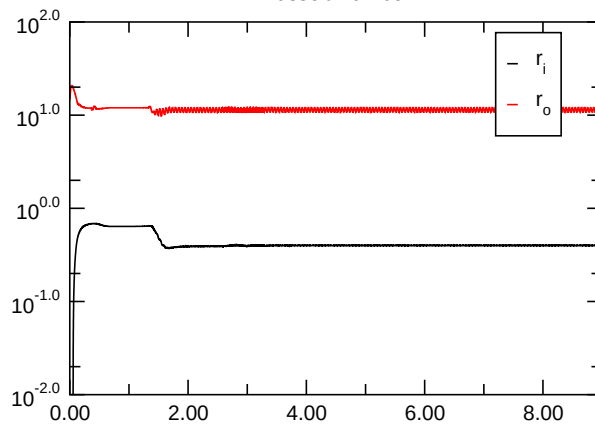
$E_{\text{kin,symm.}}$



$E_{\text{kin,asymm.}}$



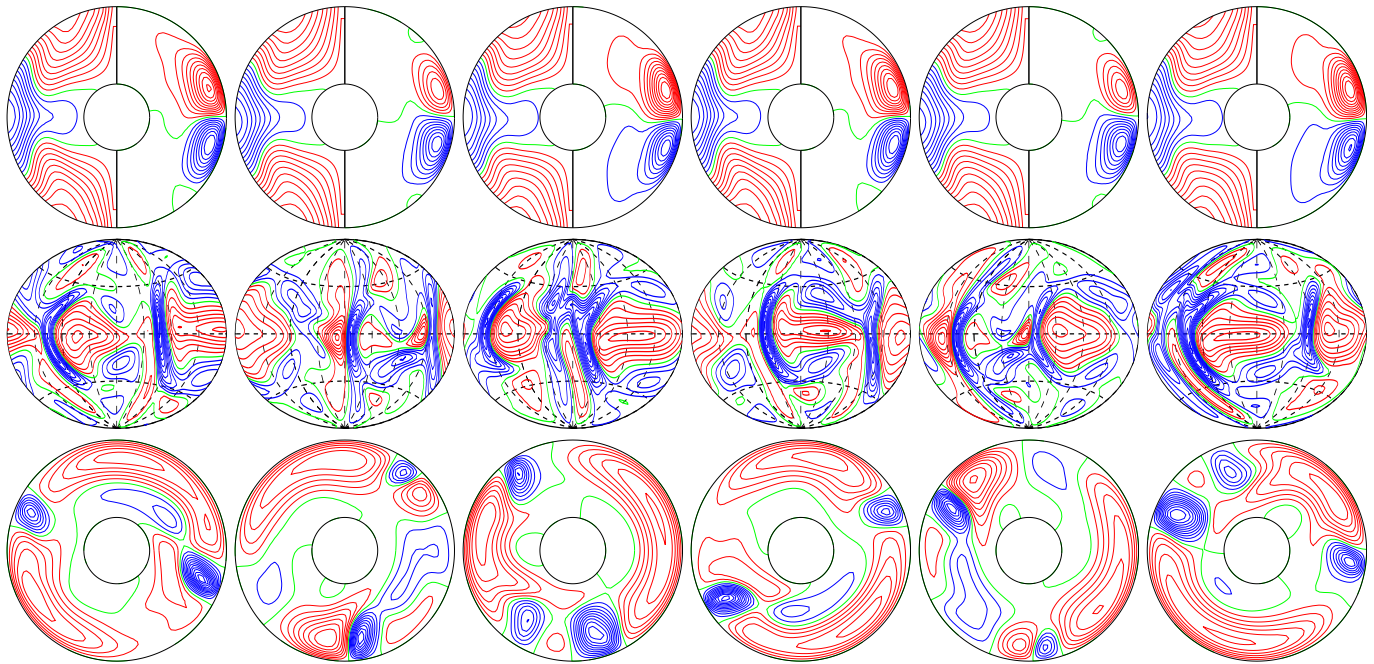
Nusselt Number



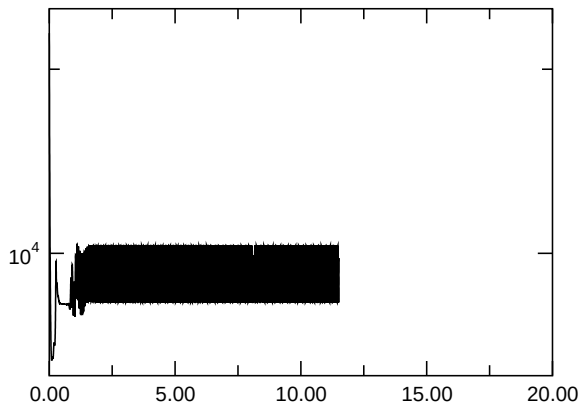
a.e03p1t03r-50000m1n2N2z8.0e4Ya.10

April 1, 2016

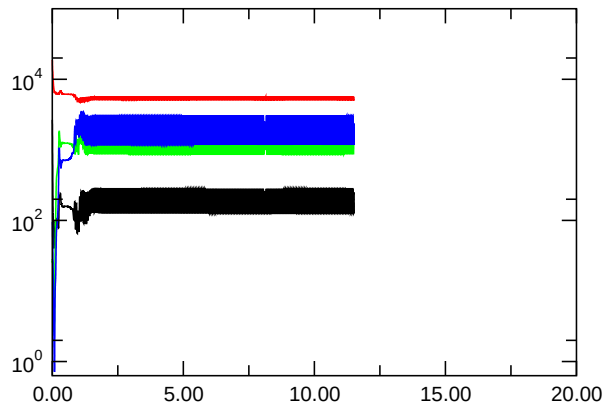
times: 5.120004 6.400005 7.680006 8.960007 10.24001 11.52001



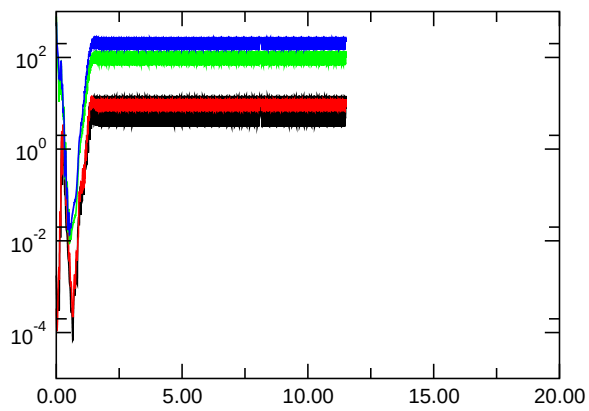
a.e03p1t03r-50000m1n2N2z8.0e4Ya
 E_{kin}



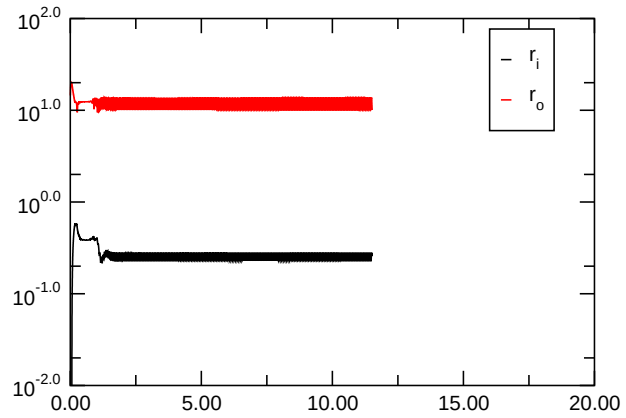
$E_{\text{kin,symm.}}$



$E_{\text{kin,asymm.}}$



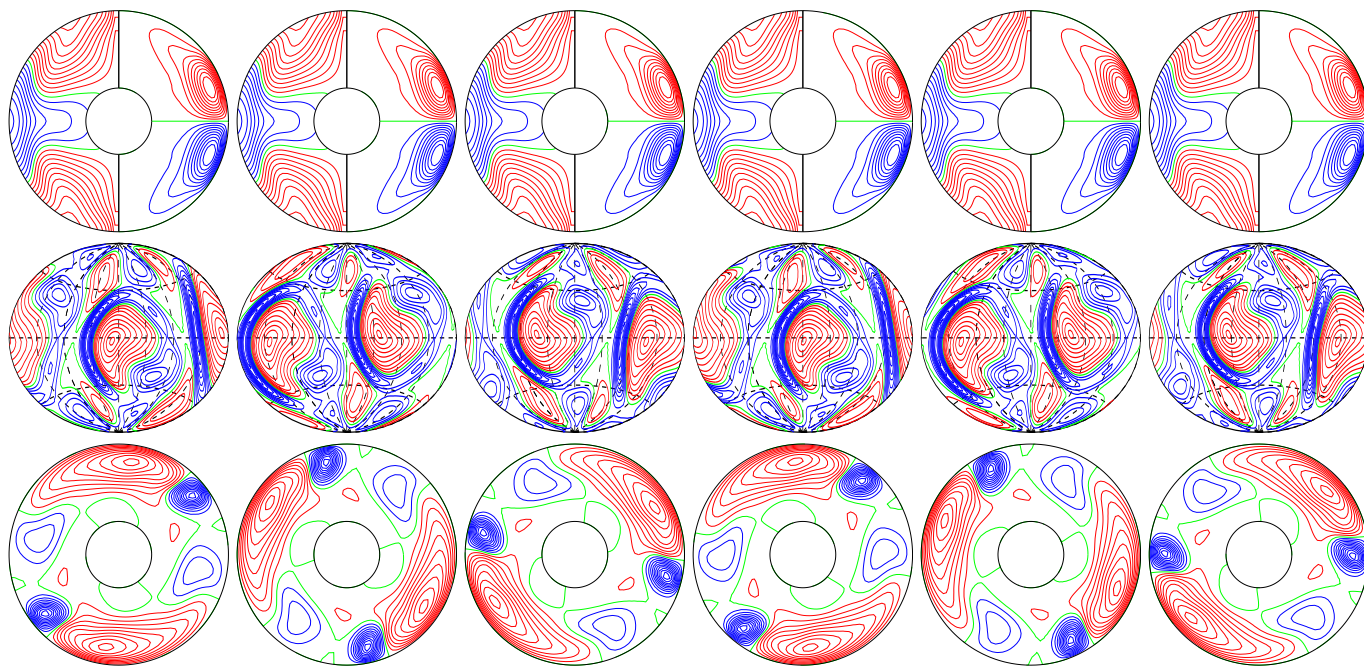
Nusselt Number



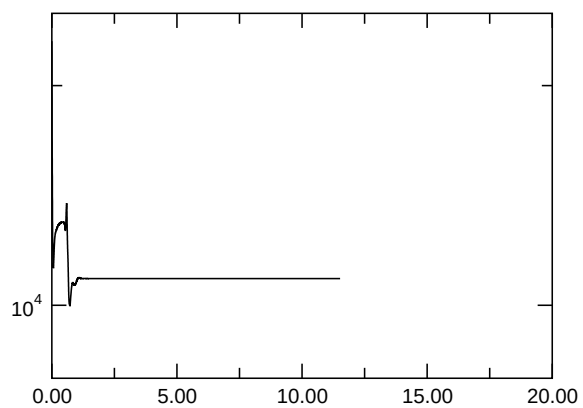
a.e03p1t03r-50000m1n2N2z9.0e4Ya.10

April 1, 2016

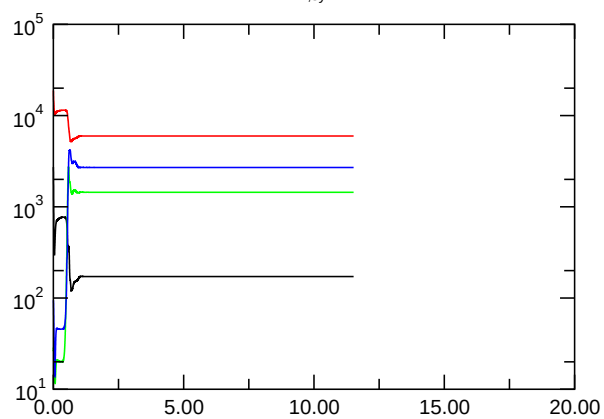
times: 5.120004 6.400005 7.680006 8.960007 10.24001 11.52001



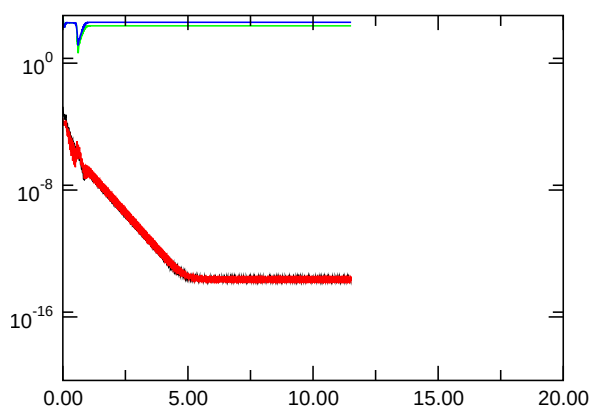
a.e03p1t03r-50000m1n2N2z9.0e4Ya
 E_{kin}



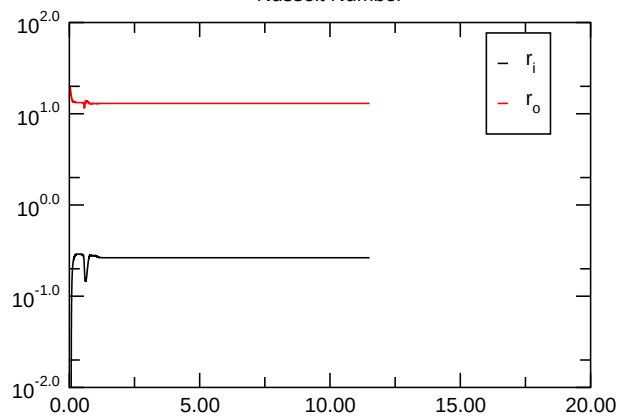
$E_{\text{kin,symm.}}$



$E_{\text{kin,asymm.}}$

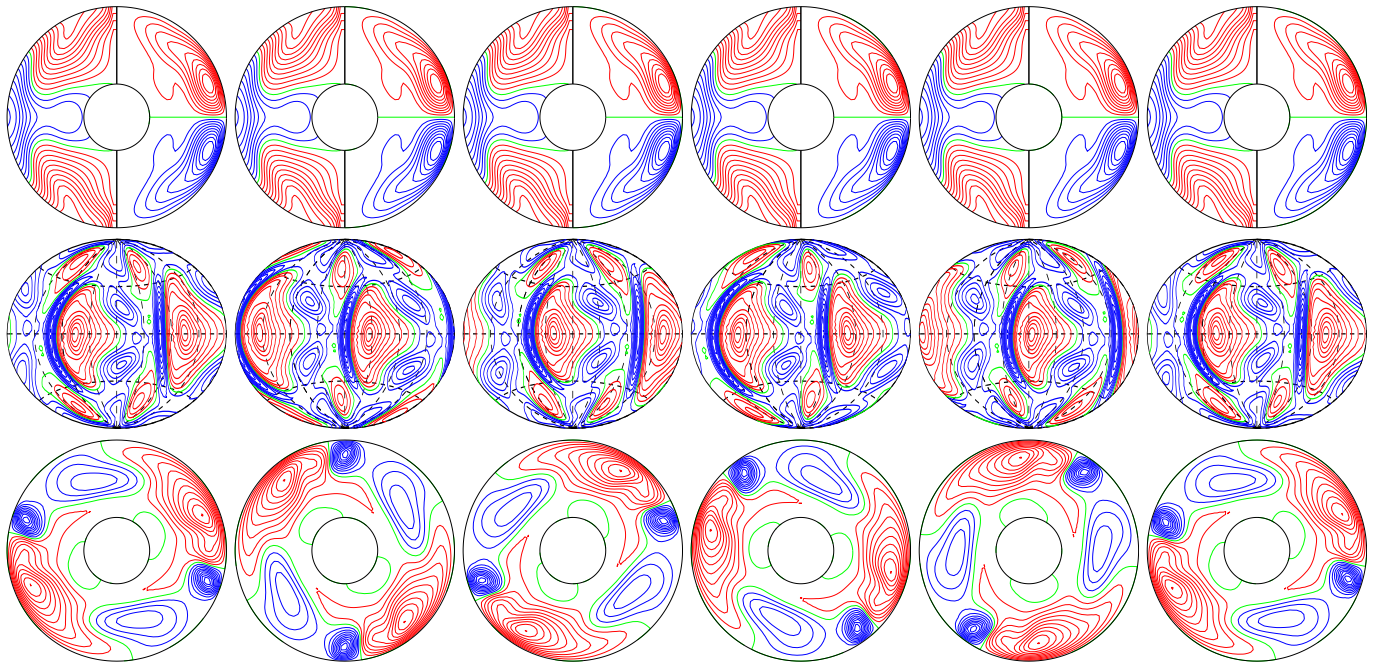


Nusselt Number

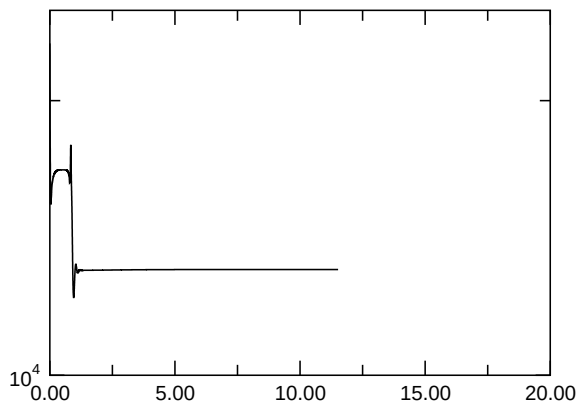


a.e03p1t03r-50000m1n2N2z1.0e5Ya.10
times: 5.120004 6.400005 7.680006 8.960007 10.24001 11.52001

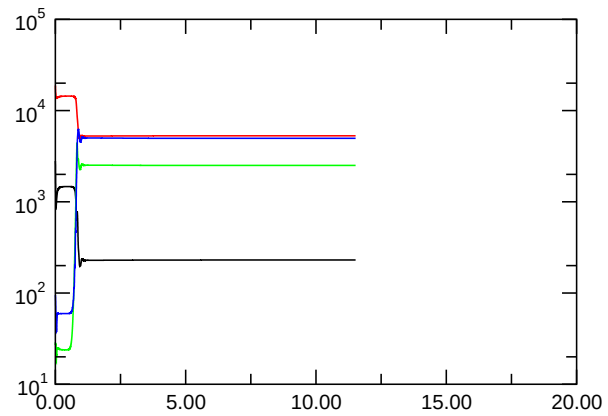
April 1, 2016



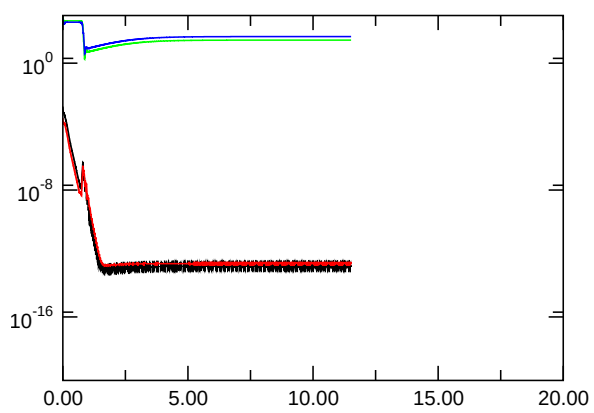
a.e03p1t03r-50000m1n2N2z1.0e5Ya
 E_{kin}



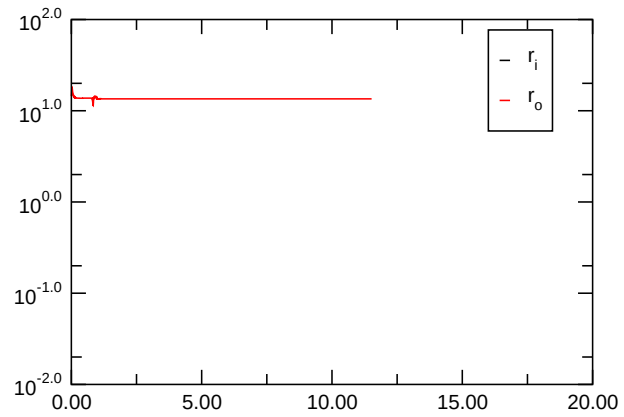
$E_{kin,symm.}$



$E_{kin,asymm.}$

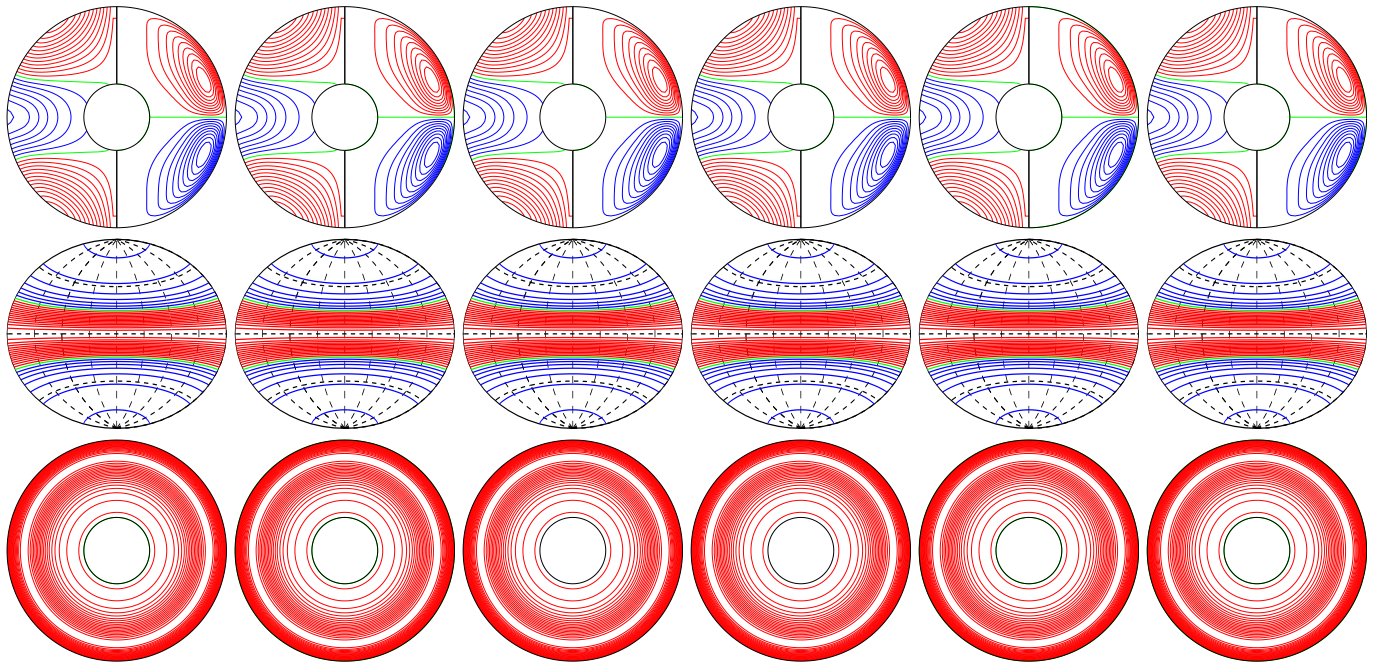


Nusselt Number

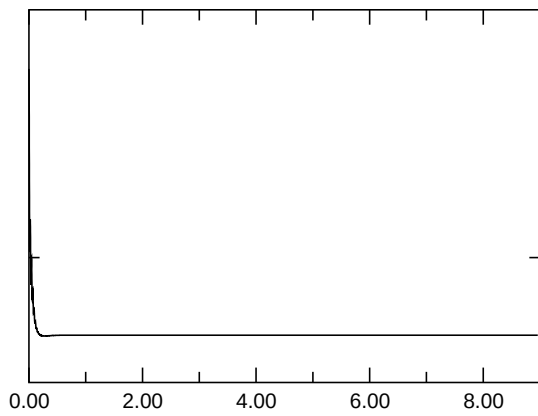


a.e03p1t03r-50000m1n2N2z4.4e4Ya.8
times: 2.560002 3.840003 5.120004 6.400005 7.680006 8.960007

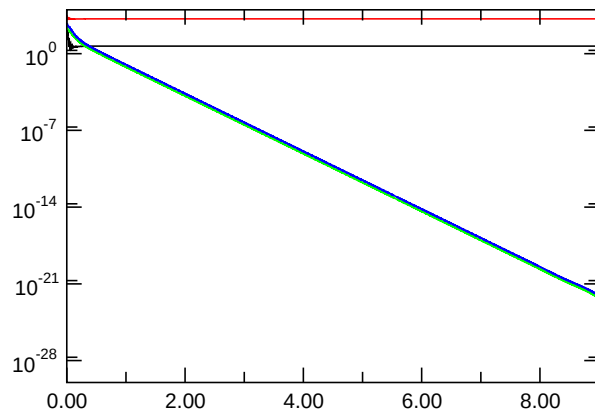
April 1, 2016



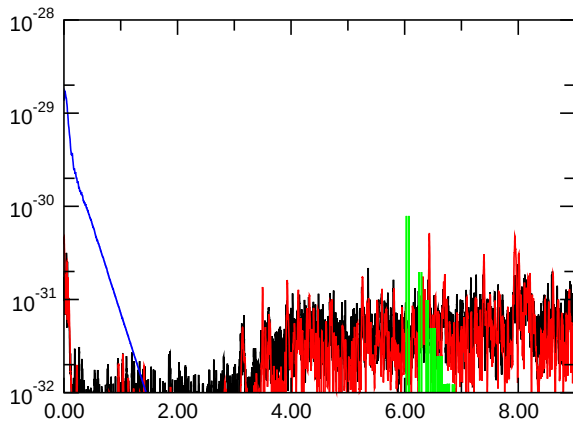
a.e03p1t03r-50000m1n2N2z4.4e4Ya
 E_{kin}



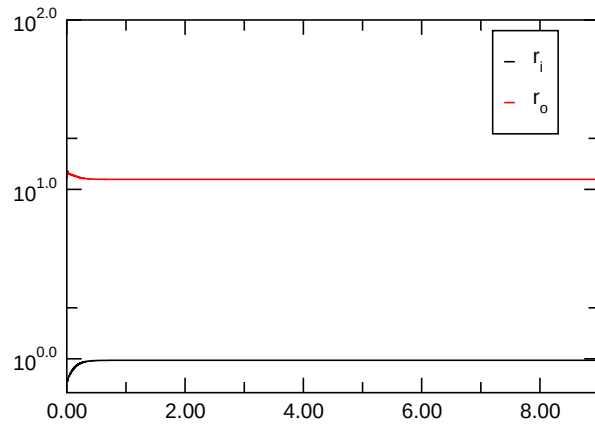
$E_{\text{kin,symm.}}$



$E_{\text{kin,asymm.}}$

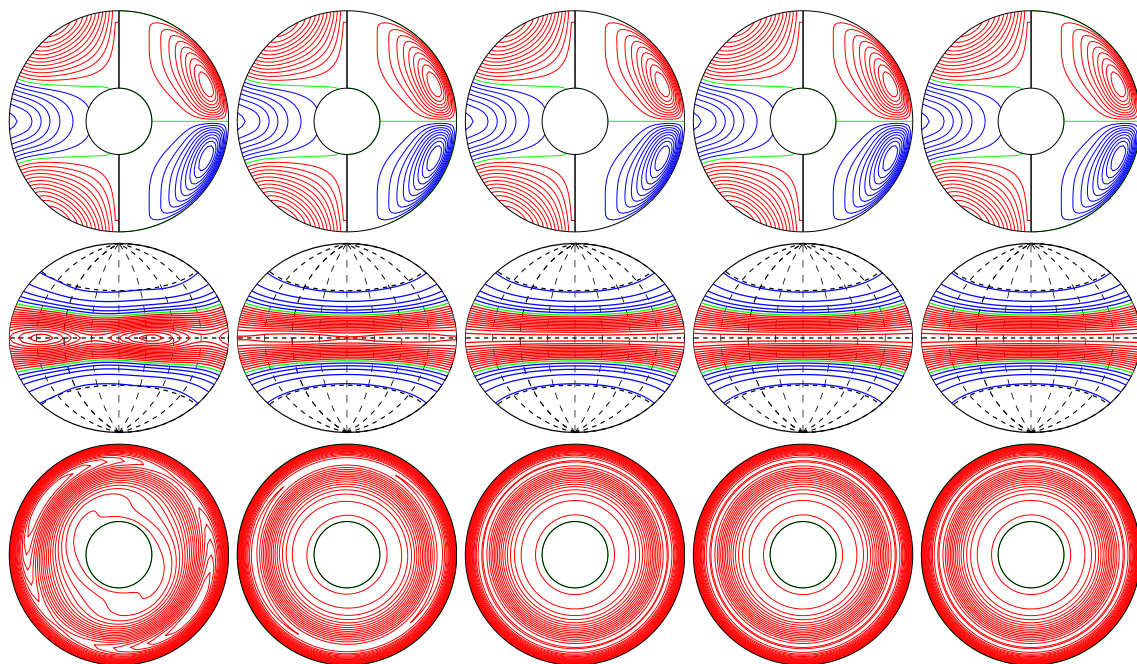


Nusselt Number

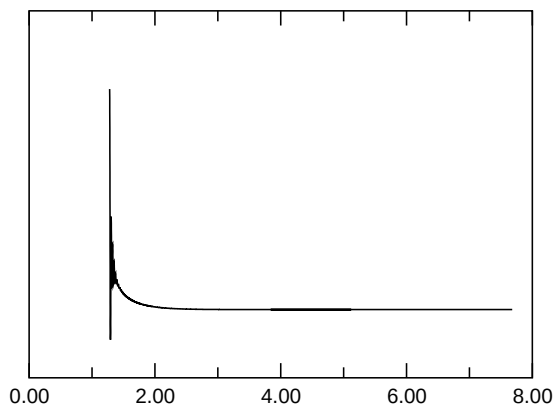


a.e03p1t03r-50000m1n2N2z4.5e4Ya.6
times: 2.560002 3.840003 5.120004 6.400005 7.680006

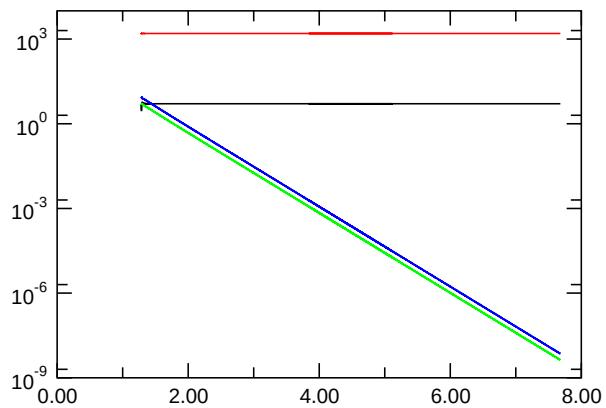
April 1, 2016



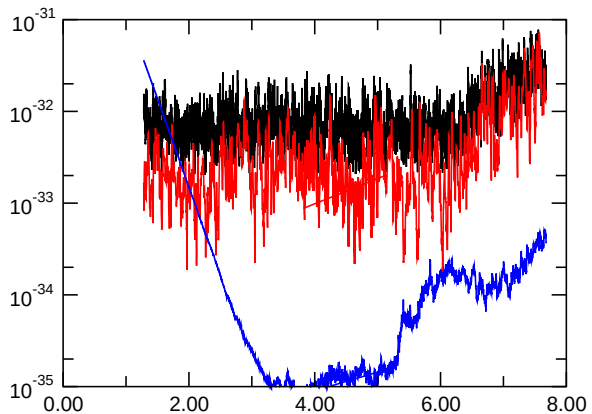
a.e03p1t03r-50000m1n2N2z4.5e4Ya
 E_{kin}



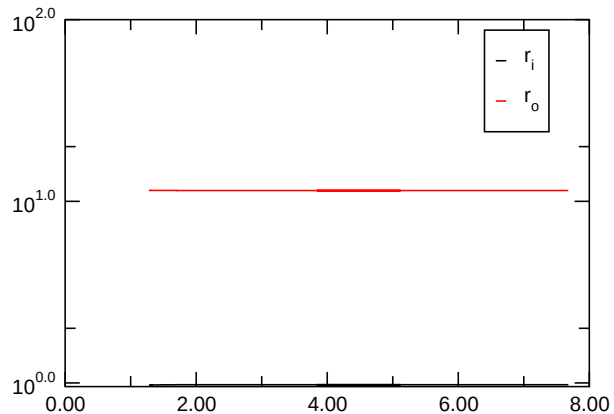
$E_{\text{kin, symm.}}$



$E_{\text{kin, asymm.}}$

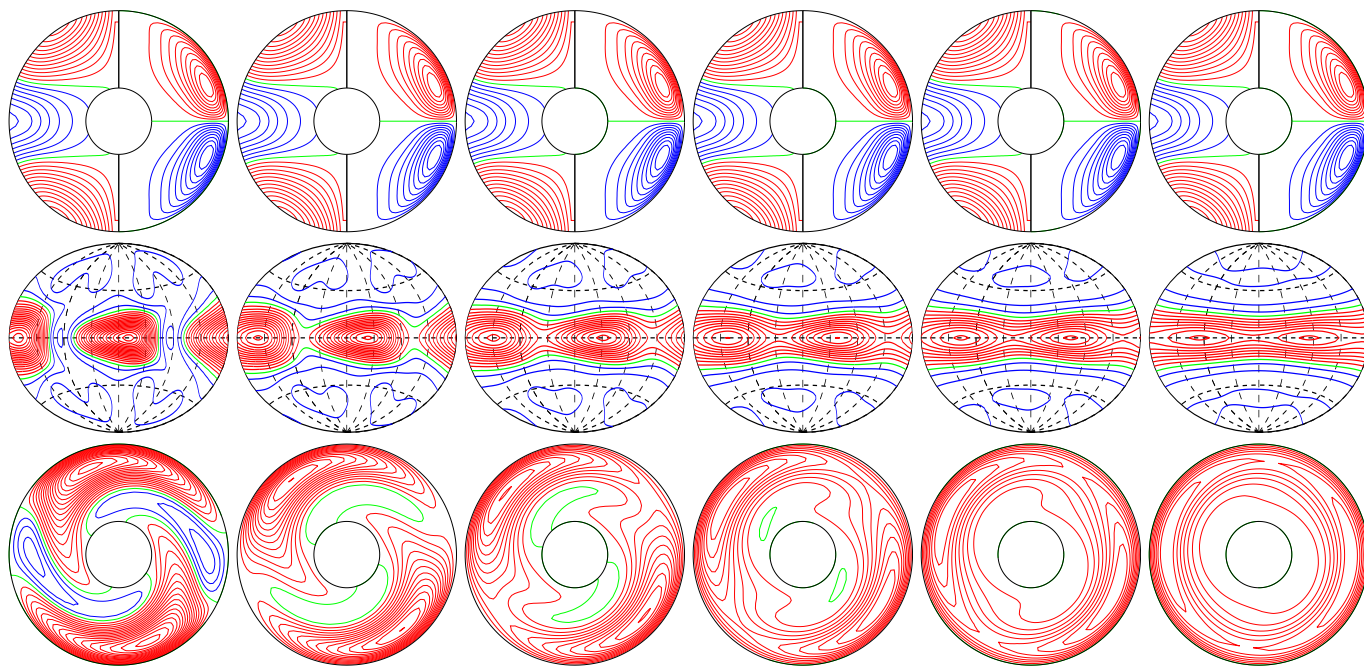


Nusselt Number

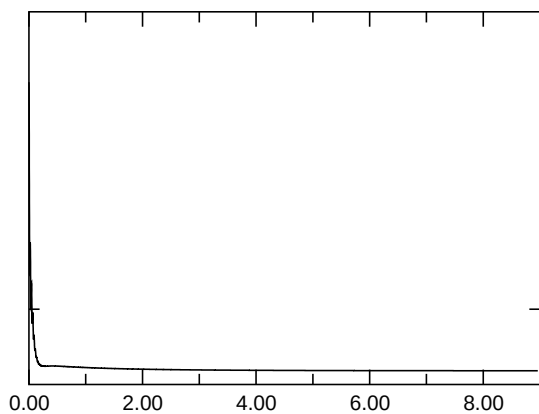


a.e03p1t03r-50000m1n2N2z4.6e4Ya.8
times: 1.280001 2.560002 3.840003 5.120004 6.400005 8.960007

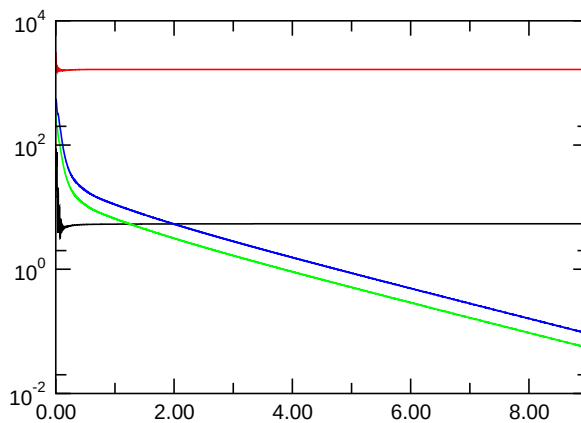
April 1, 2016



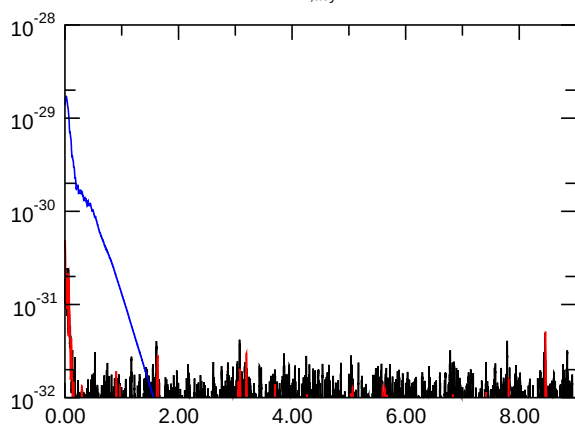
a.e03p1t03r-50000m1n2N2z4.6e4Ya
 E_{kin}



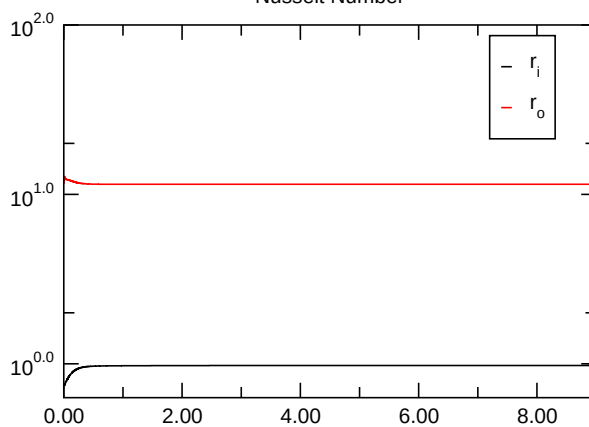
$E_{\text{kin, symm.}}$

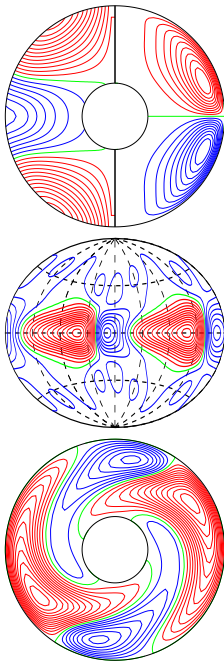


$E_{\text{kin, asymm.}}$

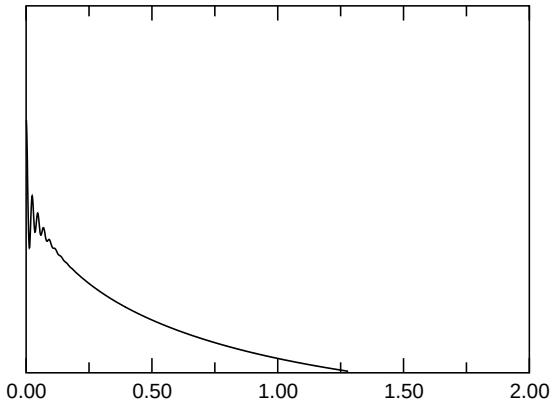


Nusselt Number

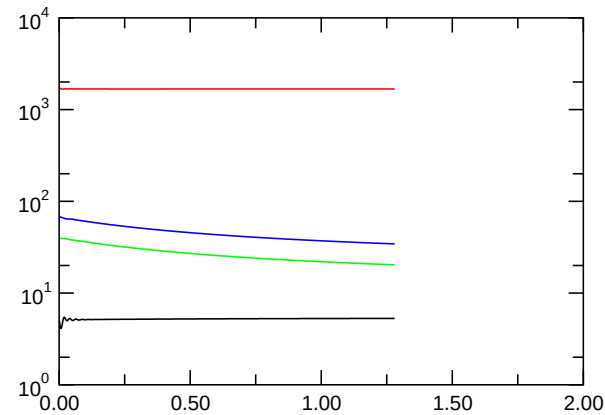




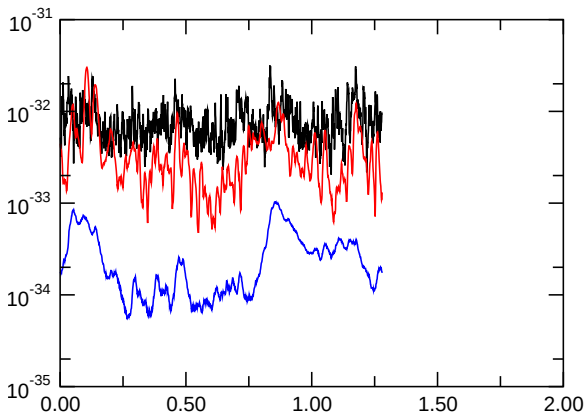
a.e03p1t03r-50000m1n2N2z4.64e4Yb
 E_{kin}



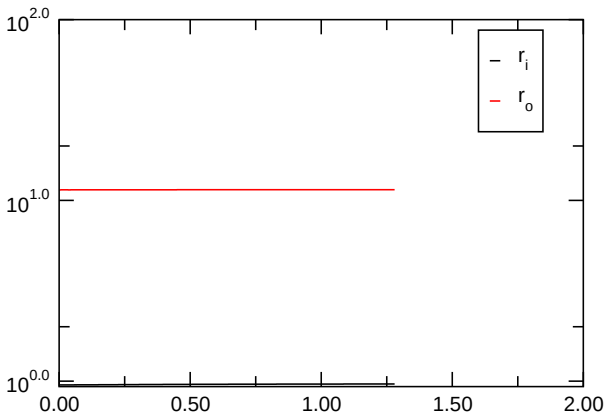
$E_{\text{kin,symm.}}$



$E_{\text{kin,asymm.}}$

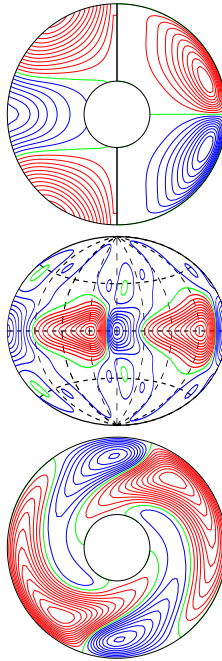


Nusselt Number

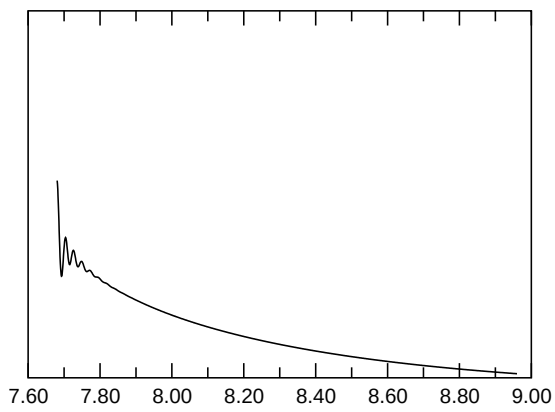


a.e03p1t03r-50000m1n2N2z4.66e4Yb.2
times: 8.960007

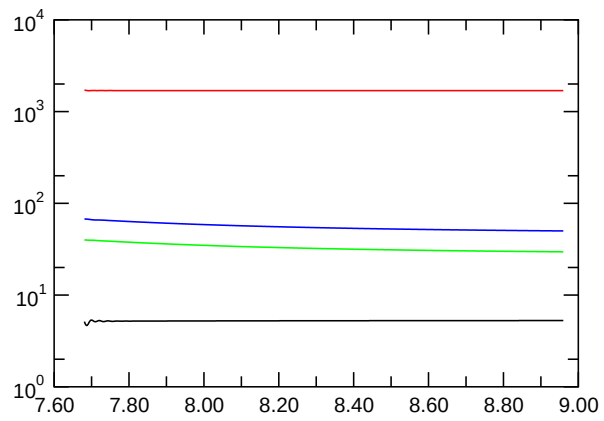
April 1, 2016



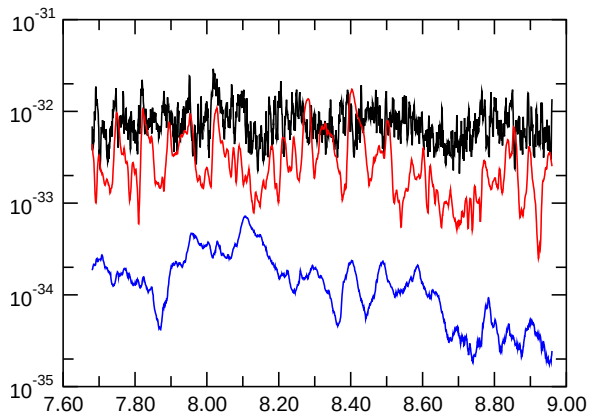
a.e03p1t03r-50000m1n2N2z4.66e4Yb
 E_{kin}



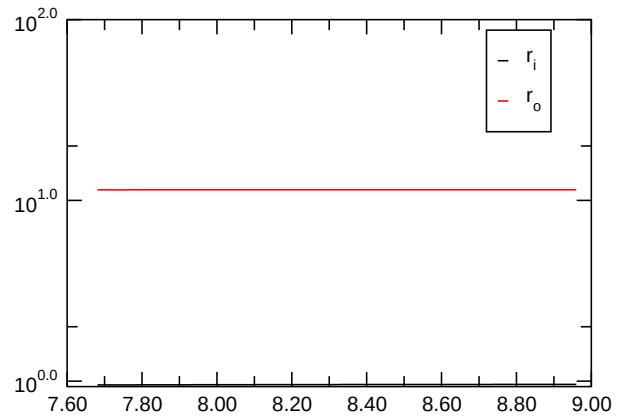
$E_{\text{kin,symm.}}$



$E_{\text{kin,asymm.}}$

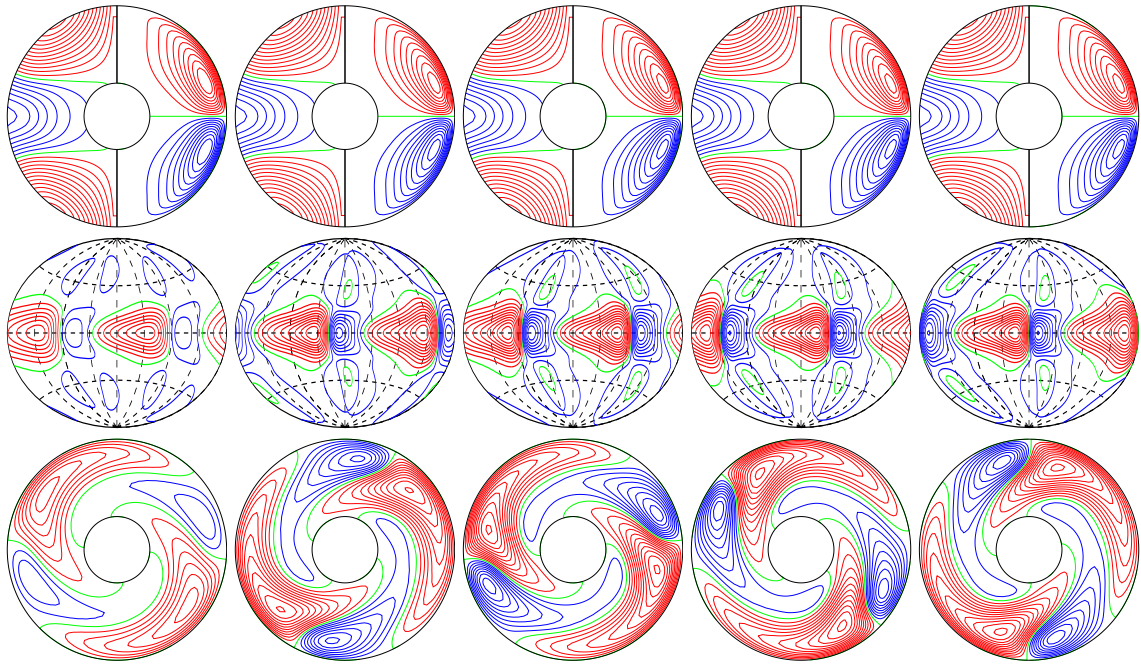


Nusselt Number

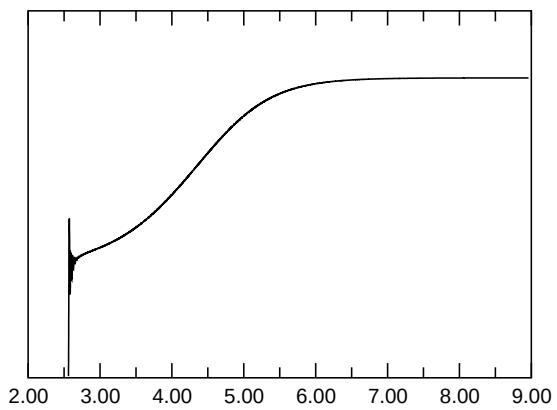


a.e03p1t03r-50000m1n2N2z4.68e4Yb.6
times: 3.840003 5.120004 6.400005 7.680006 8.960007

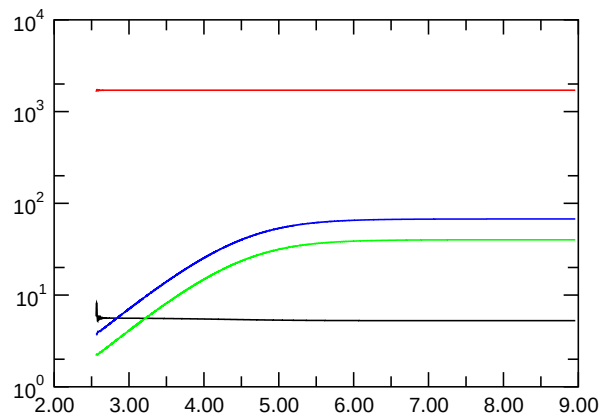
April 1, 2016



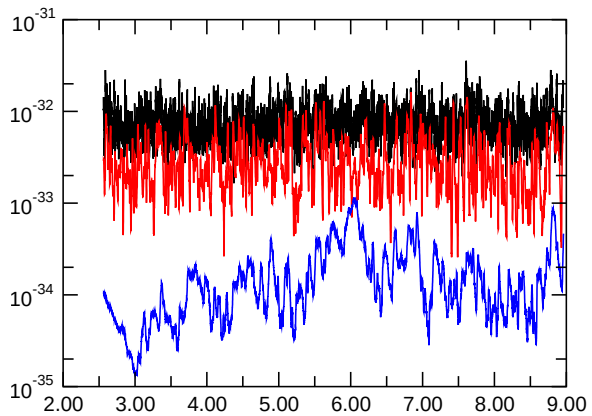
a.e03p1t03r-50000m1n2N2z4.68e4Yb
 E_{kin}



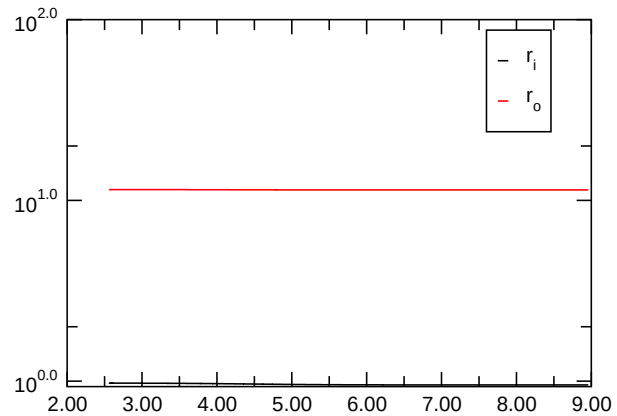
$E_{\text{kin,symm.}}$



$E_{\text{kin,asymm.}}$

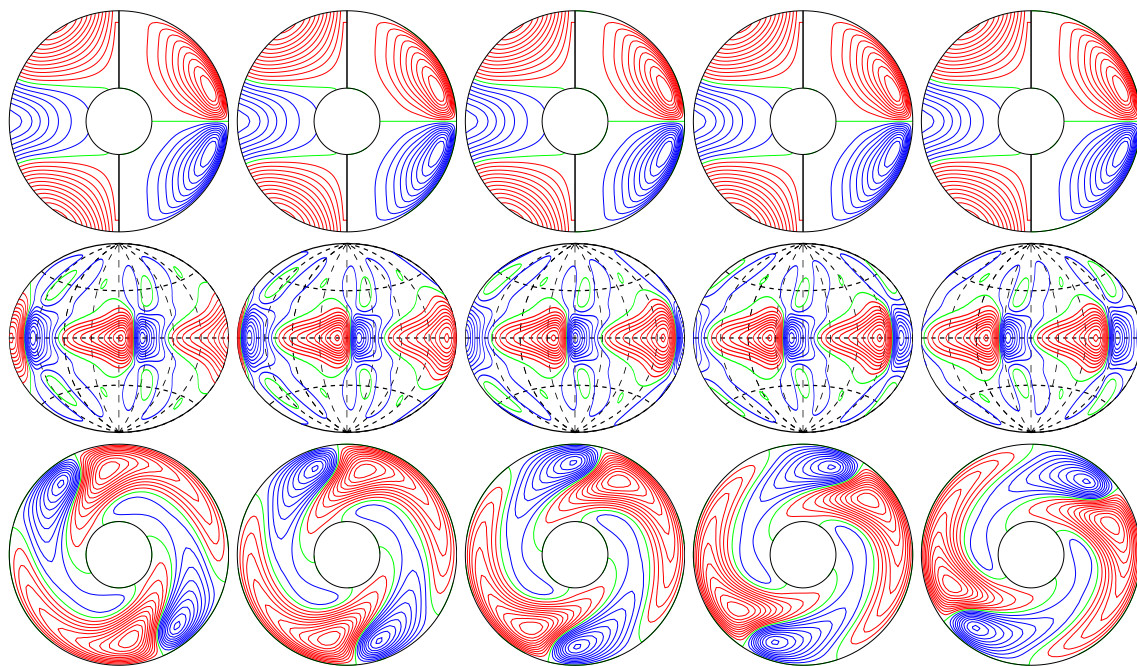


Nusselt Number

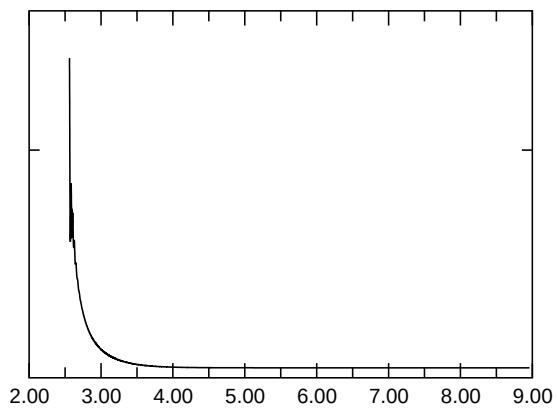


a.e03p1t03r-50000m1n2N2z4.7e4Ya.6
times: 3.840003 5.120004 6.400005 7.680006 8.960007

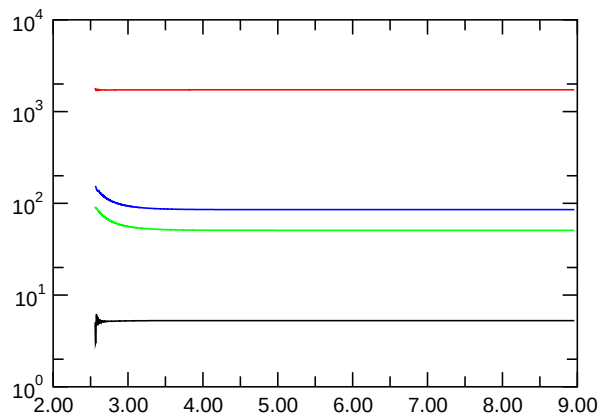
April 1, 2016



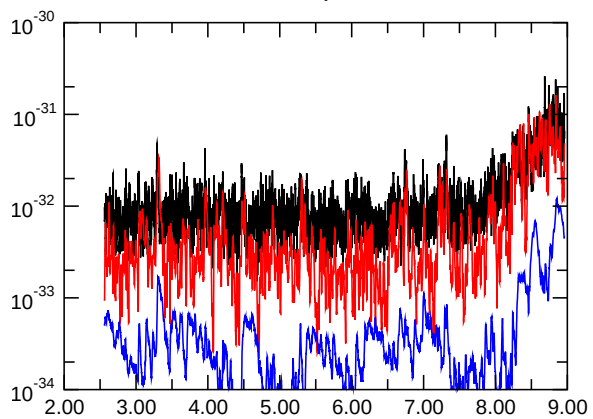
a.e03p1t03r-50000m1n2N2z4.7e4Ya
 E_{kin}



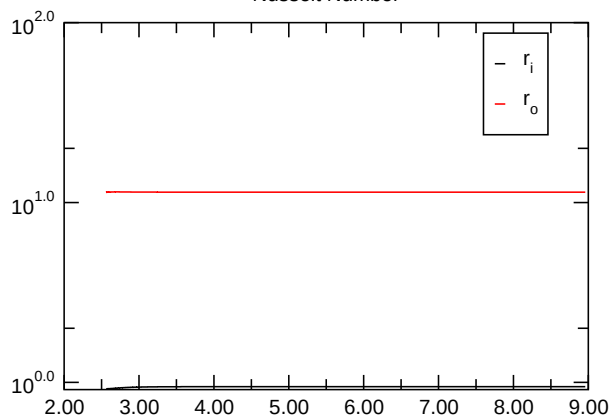
$E_{\text{kin,symm.}}$



$E_{\text{kin,asymm.}}$

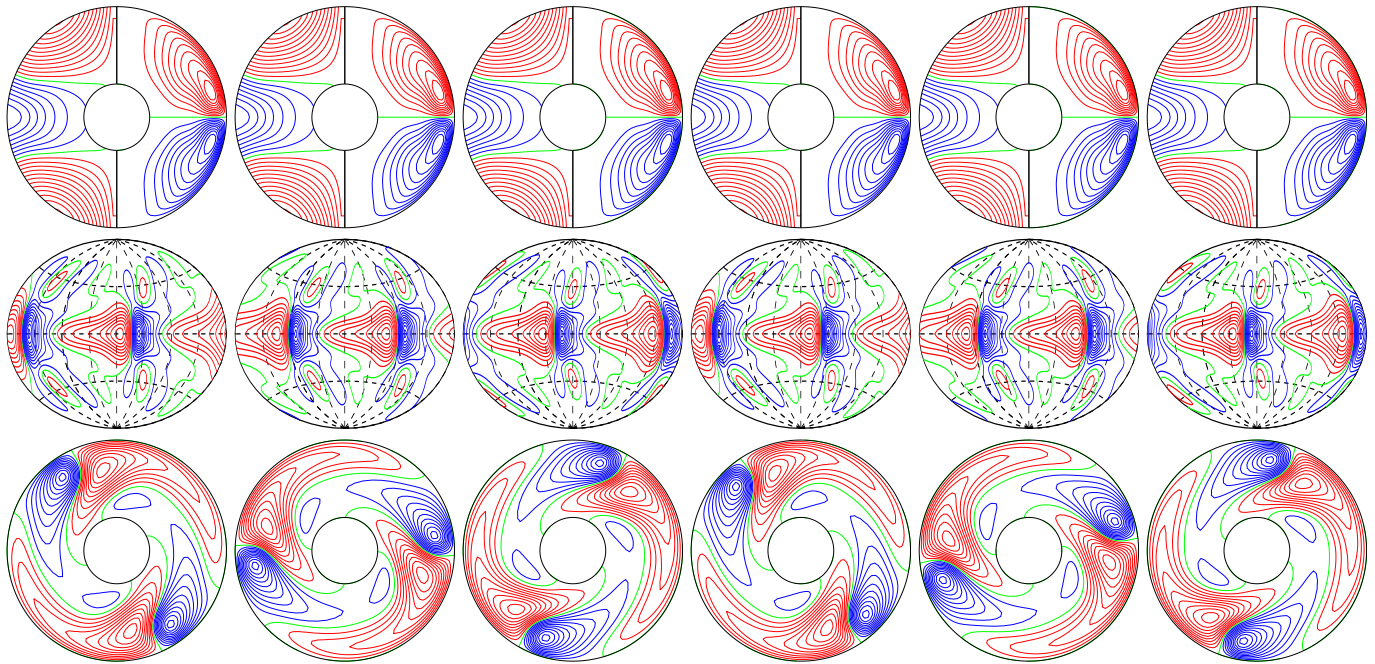


Nusselt Number

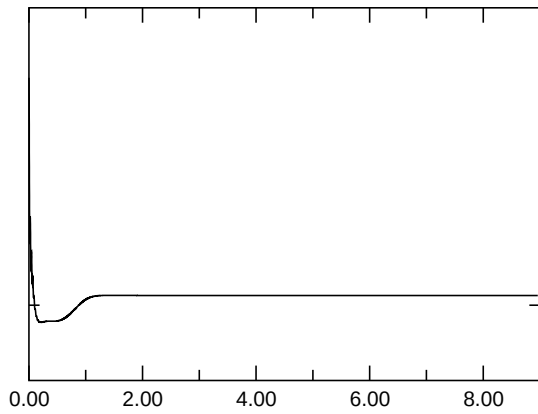


a.e03p1t03r-50000m1n2N2z4.8e4Ya.8
times: 2.560002 3.840003 5.120004 6.400005 7.680006 8.960007

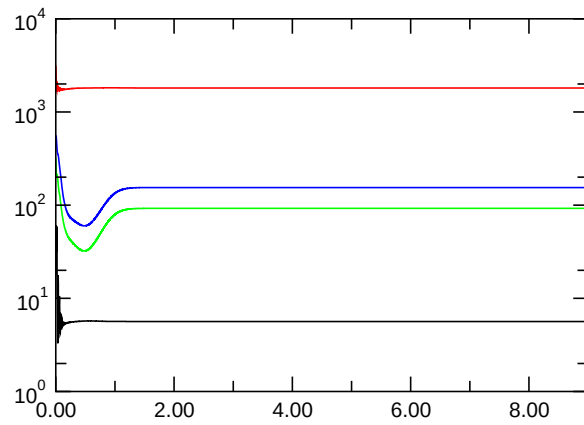
April 1, 2016



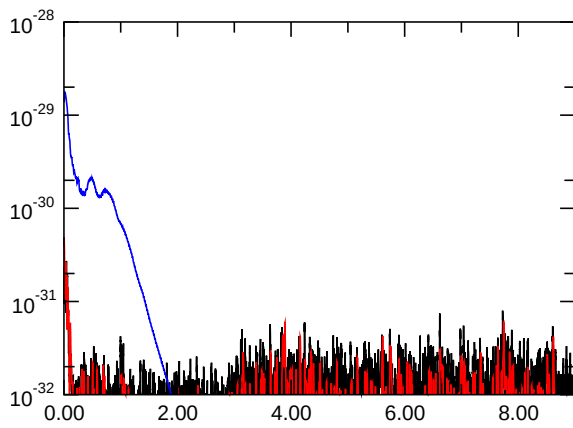
a.e03p1t03r-50000m1n2N2z4.8e4Ya
 E_{kin}



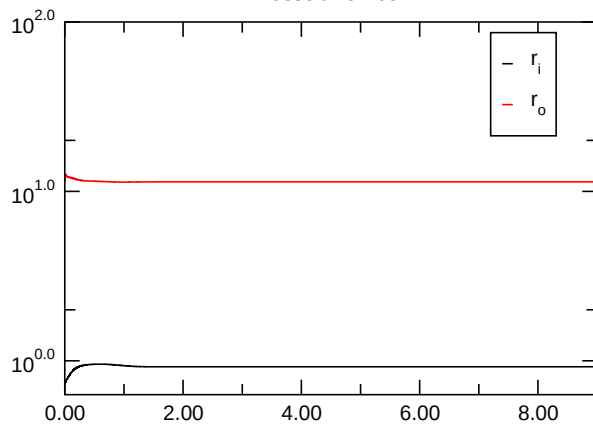
$E_{\text{kin,symm.}}$



$E_{\text{kin,asymm.}}$



Nusselt Number



a.e03p1t03r-50000m1p10n2N2z6.0e4Y.5
times: 69.72001 70.52001 71.32001 72.12001

April 1, 2016

