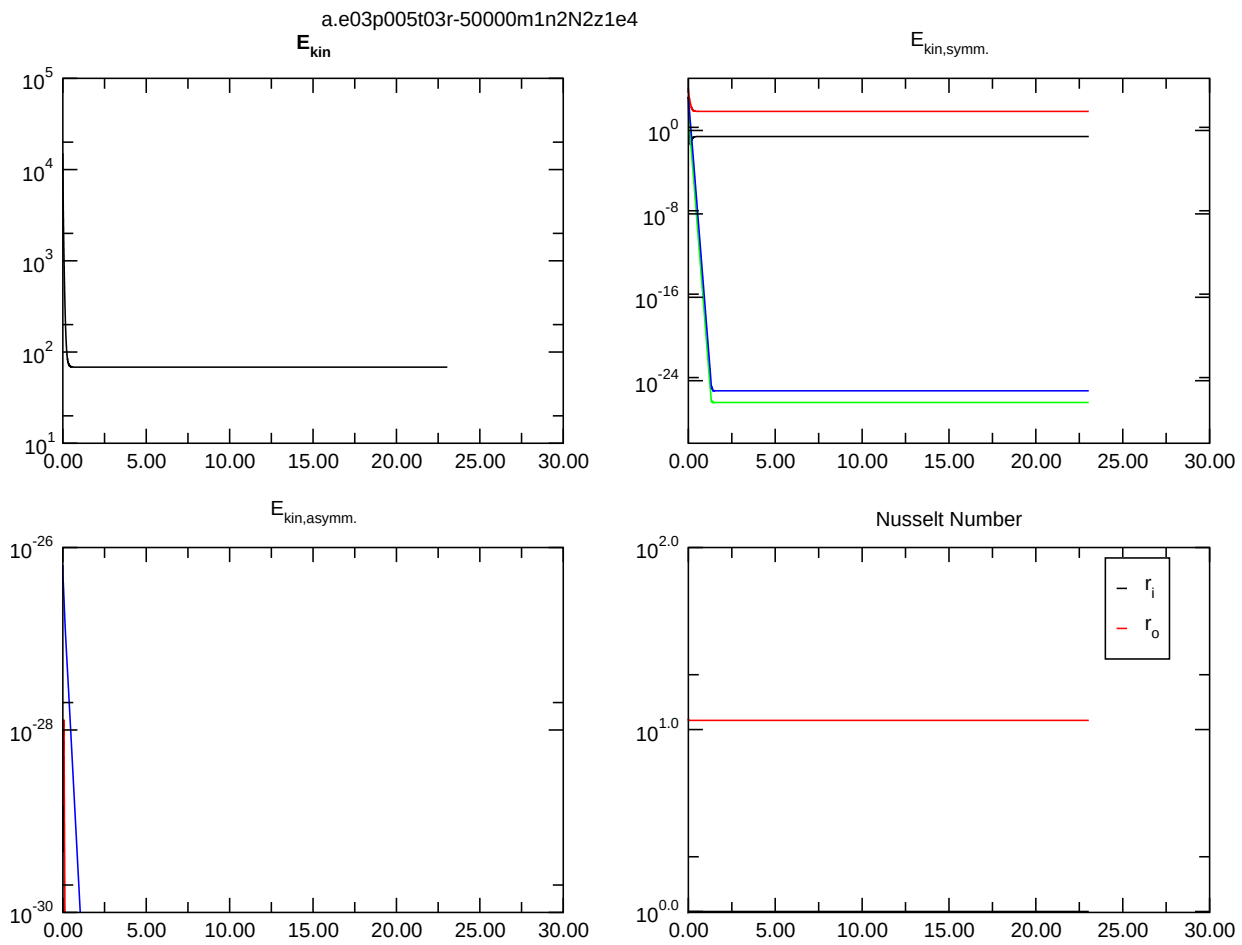
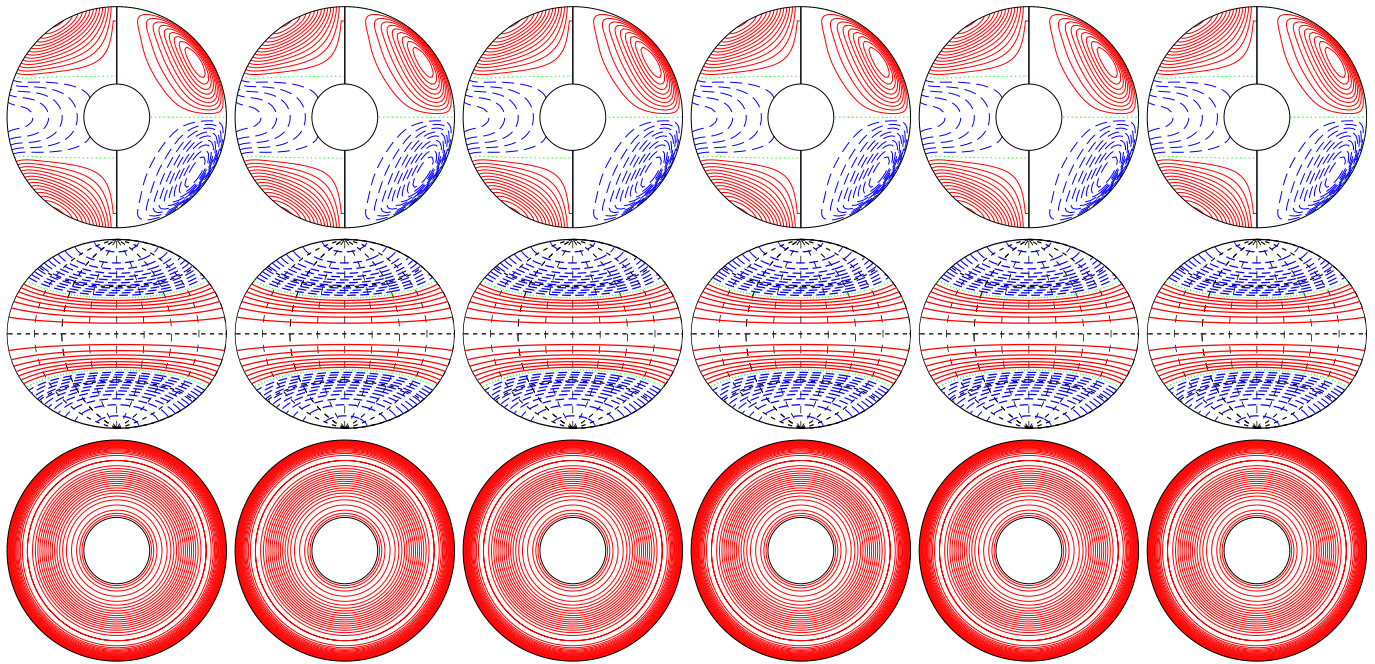


a.e03p005t03r-50000m1n2N2z1e4.20

times: 16.64801 17.92801 19.20801 20.48801 21.76801 23.04801

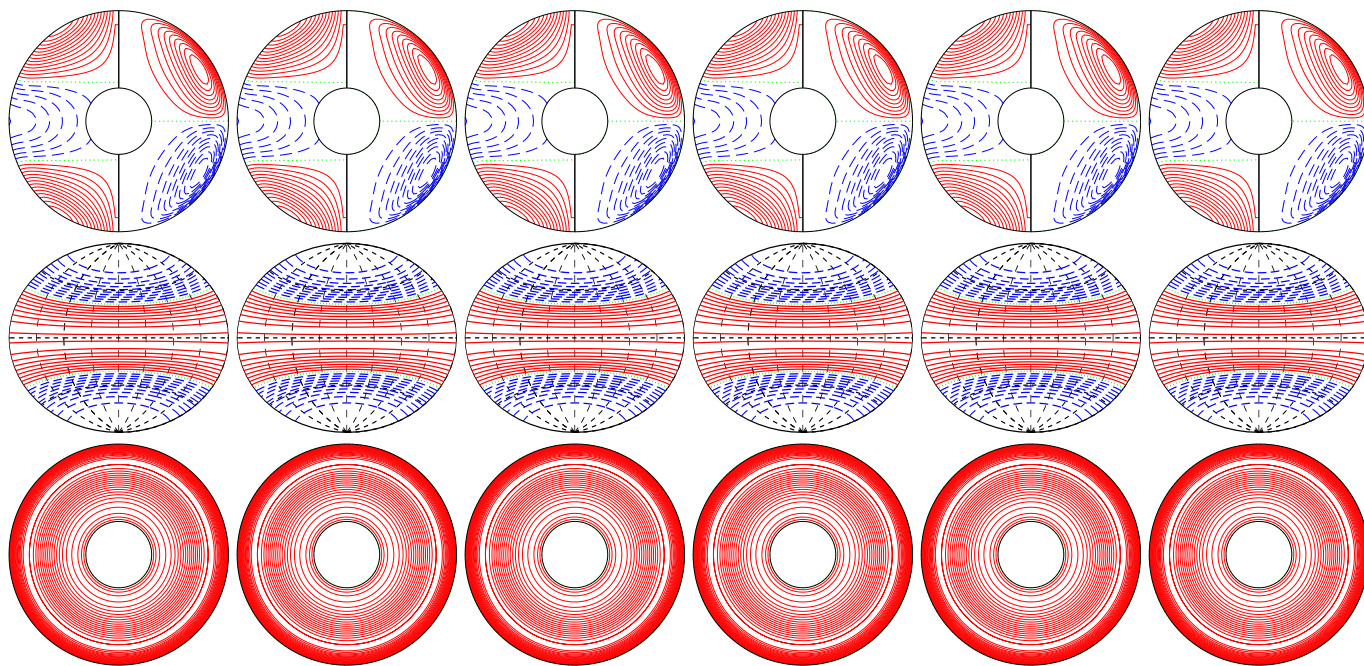
October 3, 2017



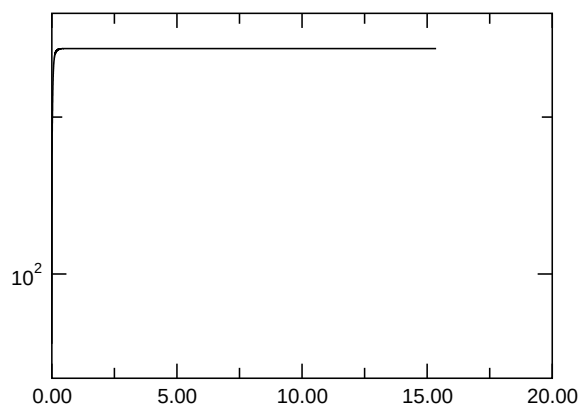
a.e03p005t03r-50000m1n2N2z2e4.13

times: 8.960007 10.24001 11.52001 12.80001 14.08001 15.36001

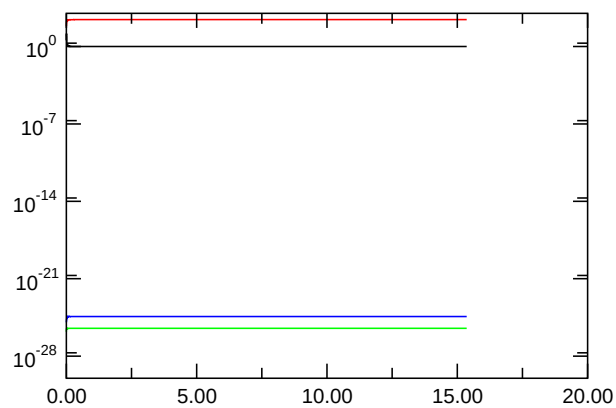
October 3, 2017



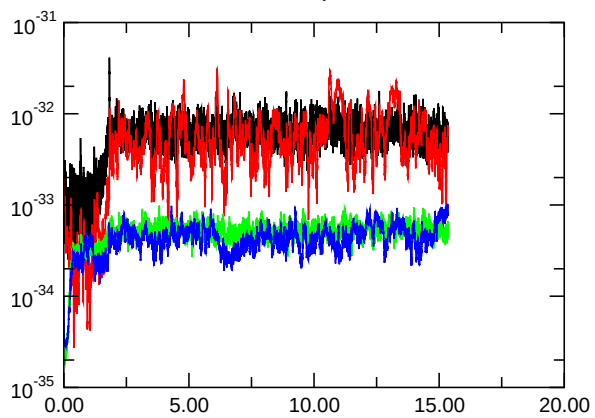
a.e03p005t03r-50000m1n2N2z2e4
 E_{kin}



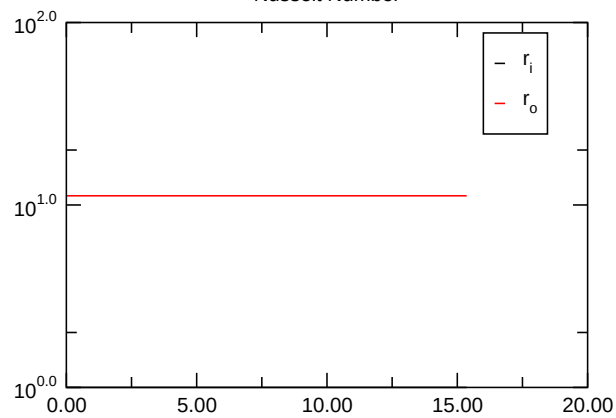
$E_{\text{kin,symm.}}$



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



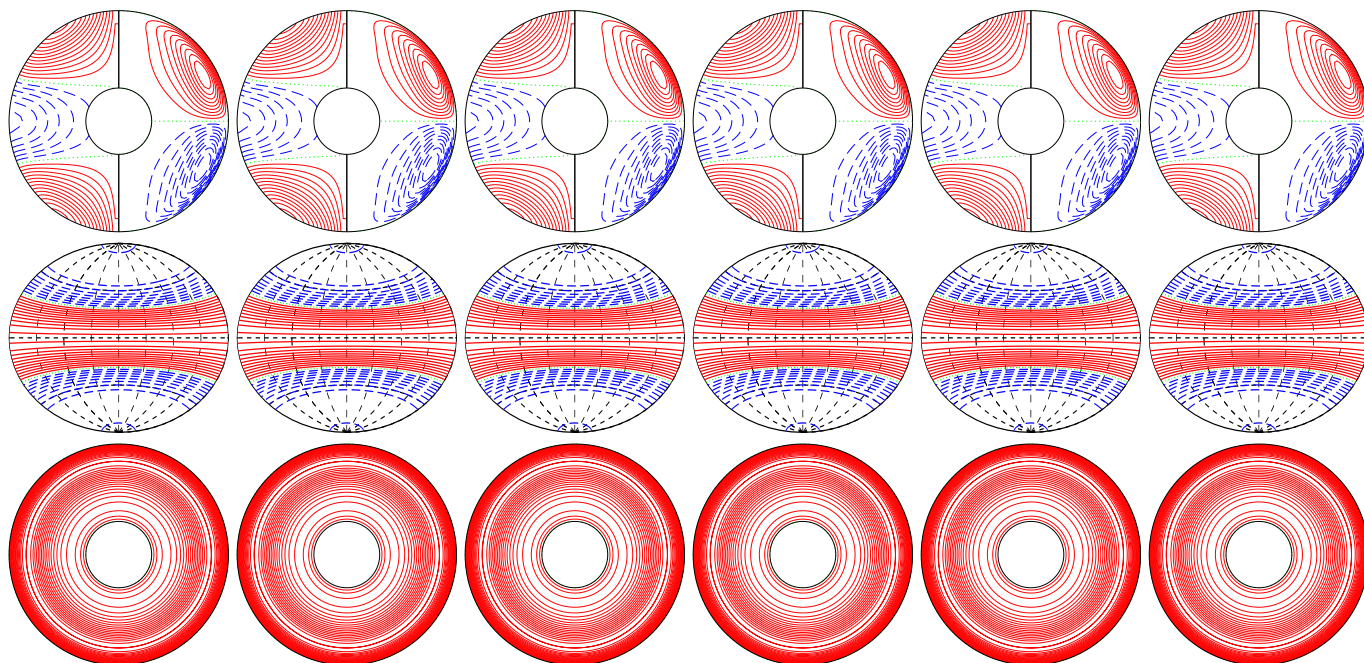
Nusselt Number



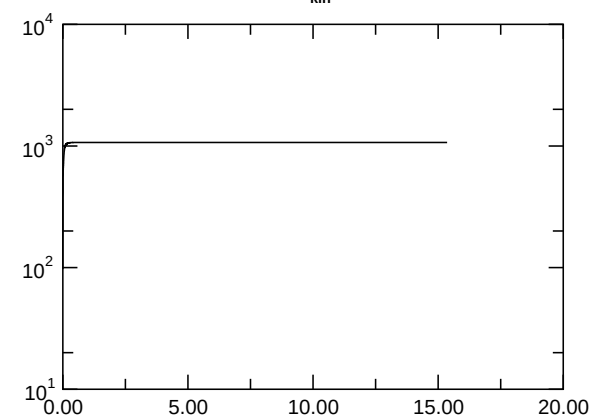
a.e03p005t03r-50000m1n2N2z4e4.13

times: 8.960007 10.24001 11.52001 12.80001 14.08001 15.36001

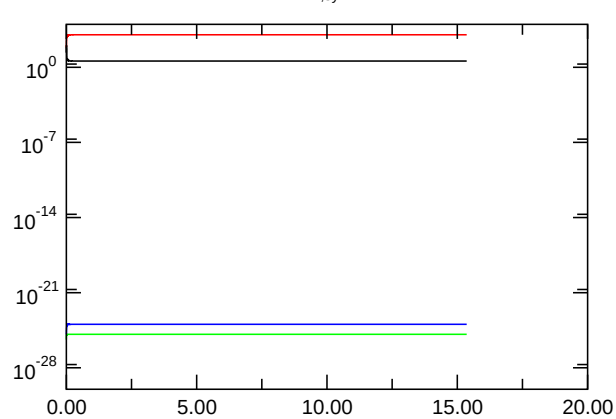
October 3, 2017



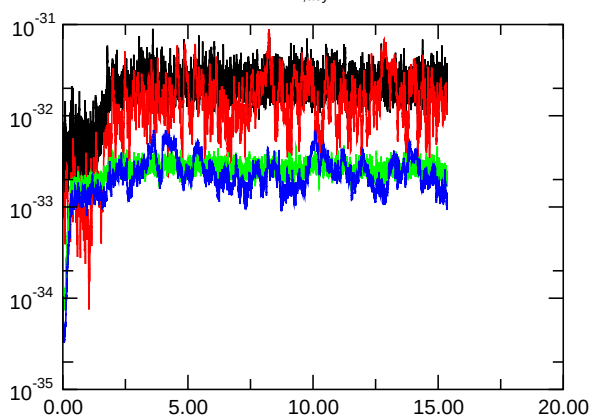
a.e03p005t03r-50000m1n2N2z4e4
 E_{kin}



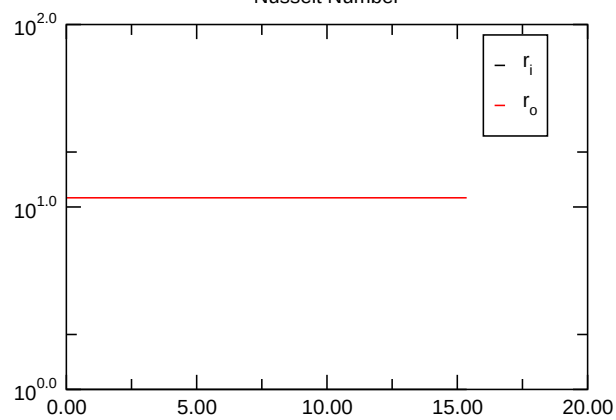
$E_{\text{kin,symm.}}$



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



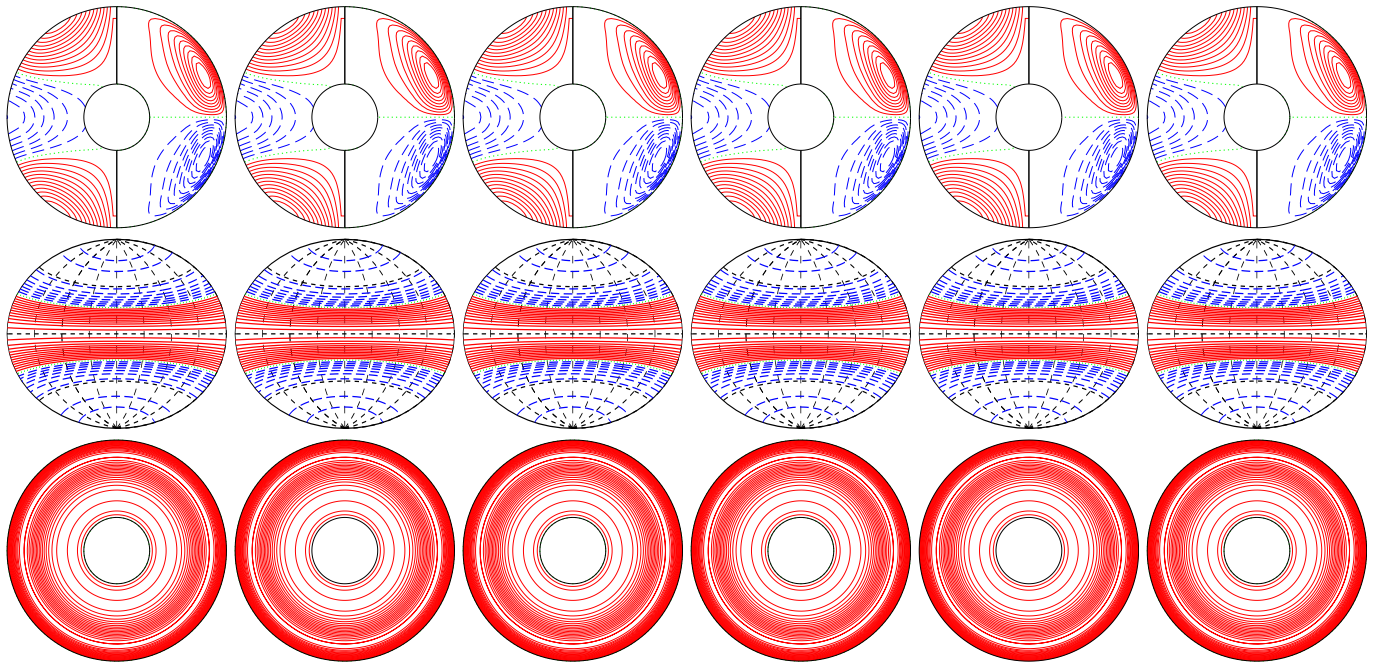
Nusselt Number



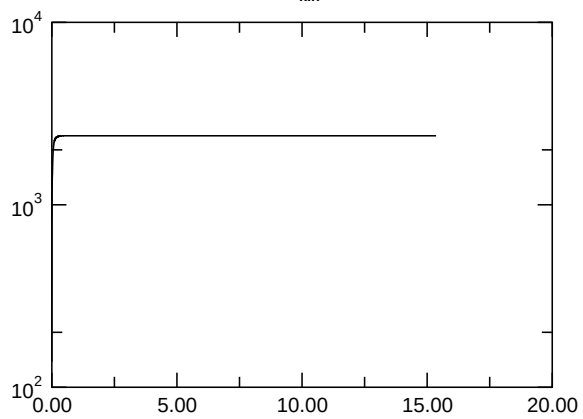
a.e03p005t03r-50000m1n2N2z6e4.13

times: 8.960007 10.24001 11.52001 12.80001 14.08001 15.36001

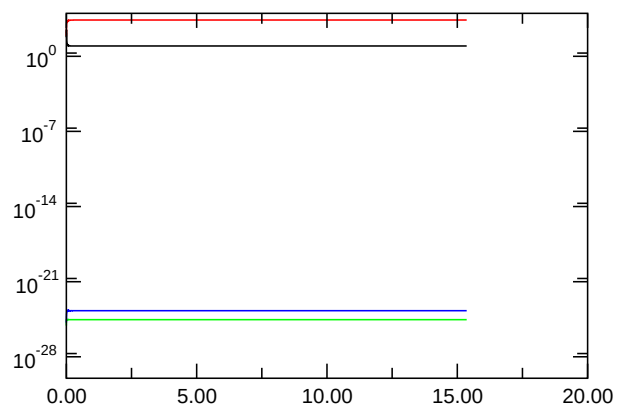
October 3, 2017



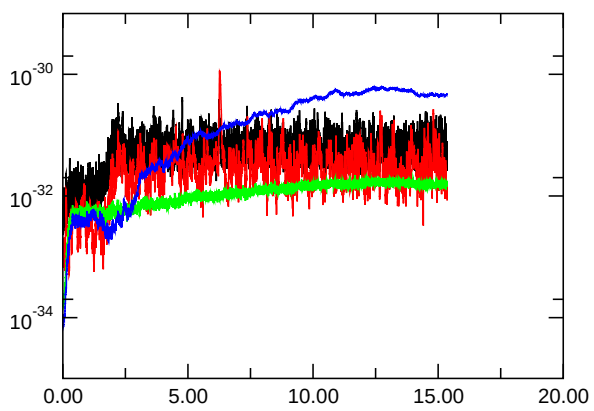
a.e03p005t03r-50000m1n2N2z6e4
 E_{kin}



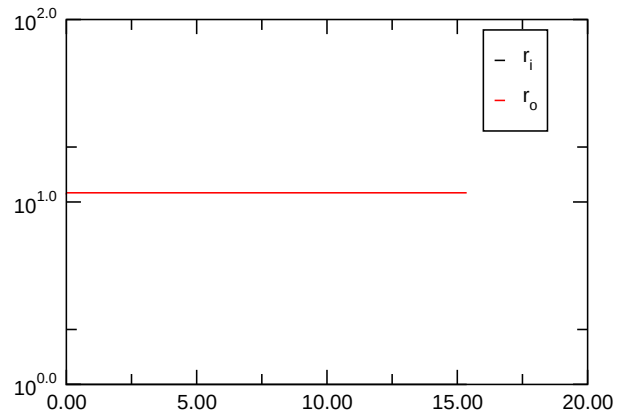
$E_{\text{kin,symm.}}$



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



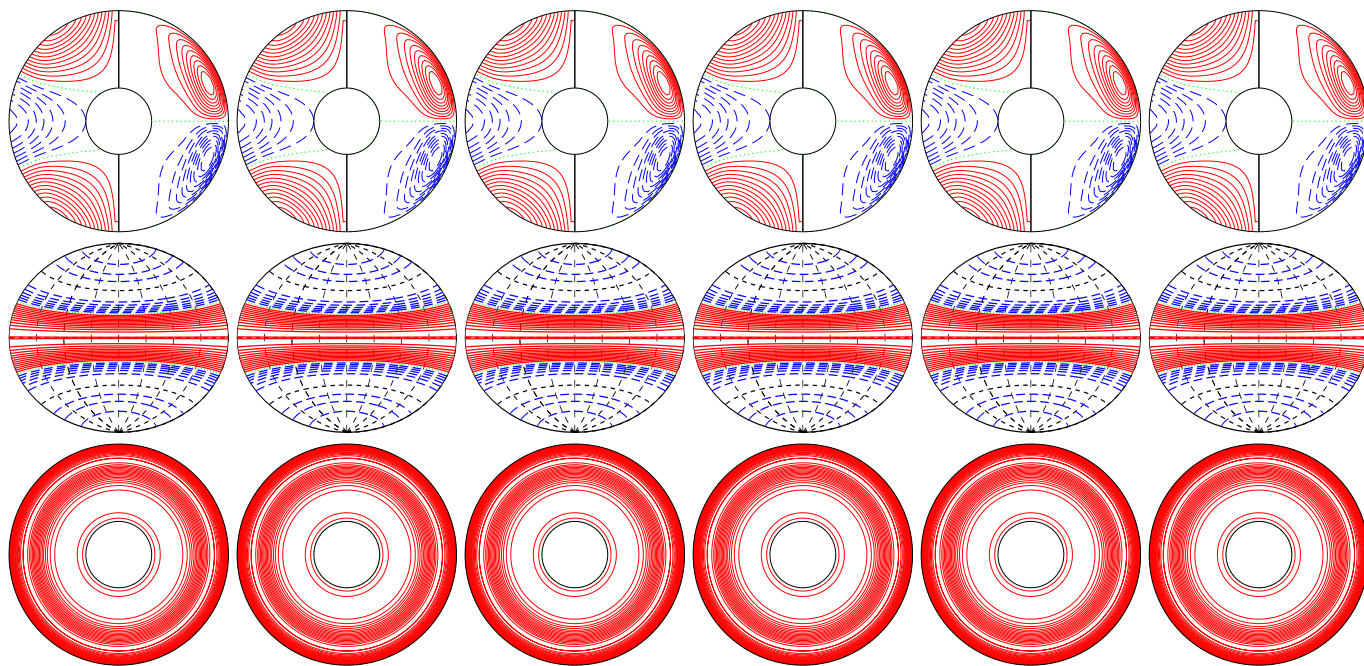
Nusselt Number



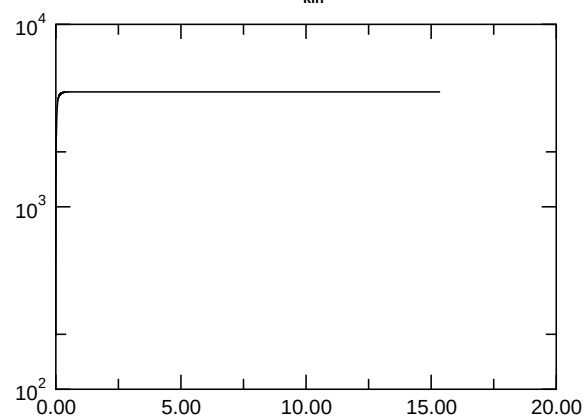
a.e03p005t03r-50000m1n2N2z8e4.13

times: 8.960007 10.24001 11.52001 12.80001 14.08001 15.36001

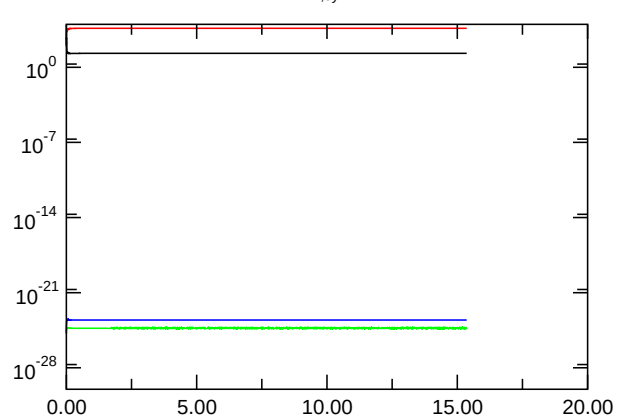
October 3, 2017



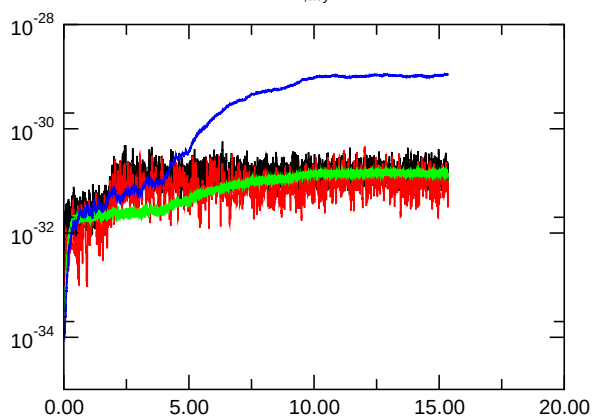
a.e03p005t03r-50000m1n2N2z8e4
 E_{kin}



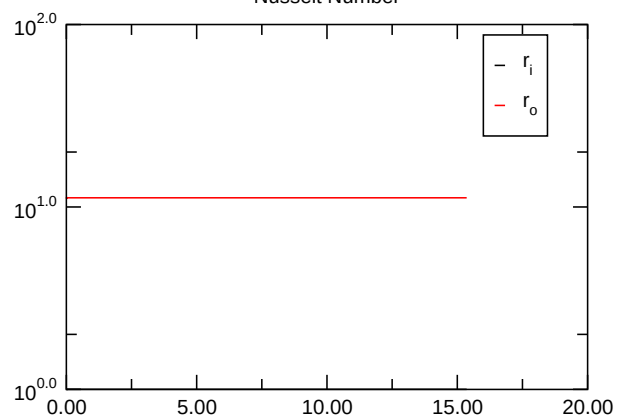
$E_{\text{kin,symm.}}$



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



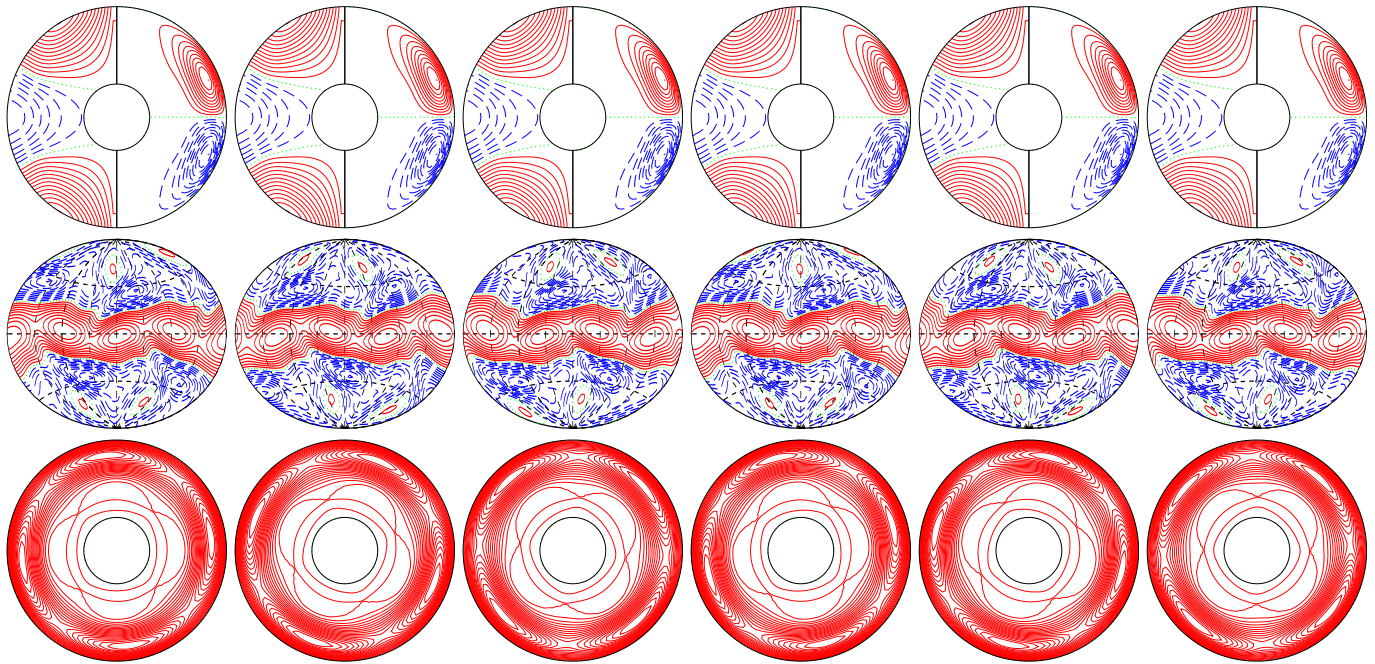
Nusselt Number



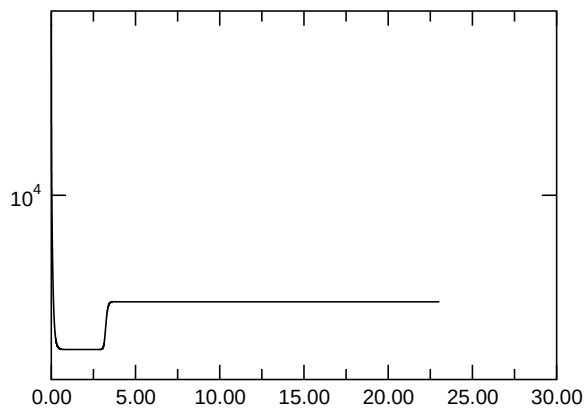
a.e03p005t03r-50000m1n2N2z10e4.19

times: 16.64001 17.92001 19.20001 20.48001 21.76001 23.04001

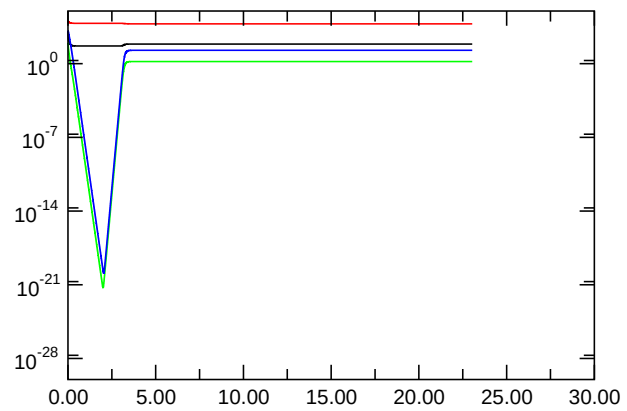
October 3, 2017



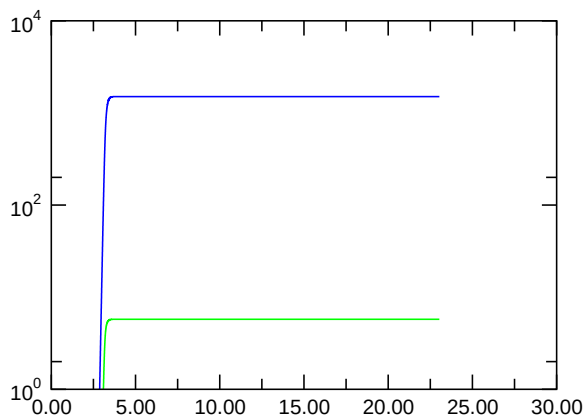
a.e03p005t03r-50000m1n2N2z10e4
 E_{kin}



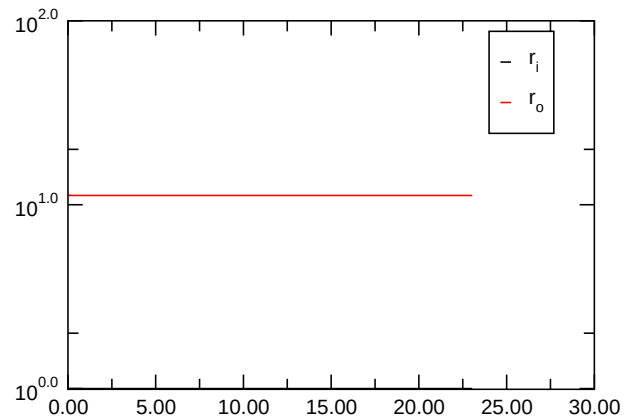
$E_{\text{kin,symm.}}$



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



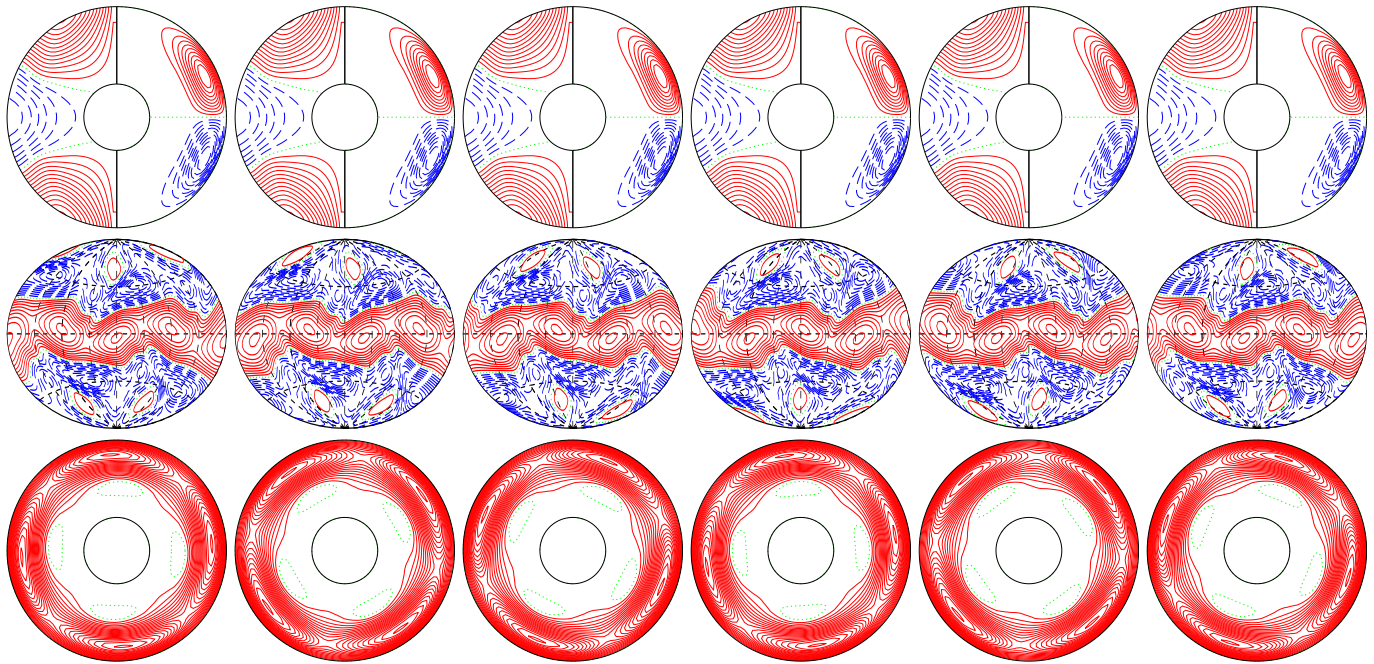
Nusselt Number



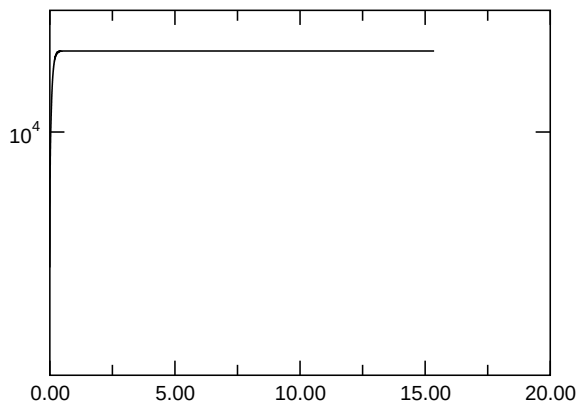
a.e03p005t03r-50000m1n2N2z12e4b.13

times: 8.960007 10.24001 11.52001 12.80001 14.08001 15.36001

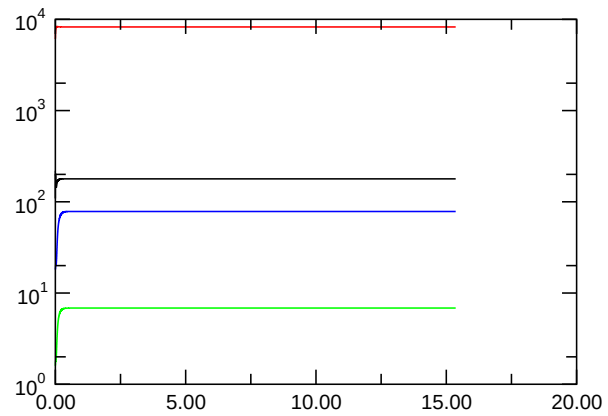
October 3, 2017



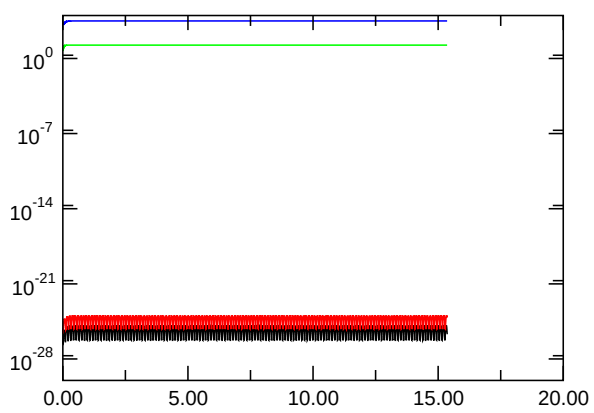
a.e03p005t03r-50000m1n2N2z12e4b
 E_{kin}



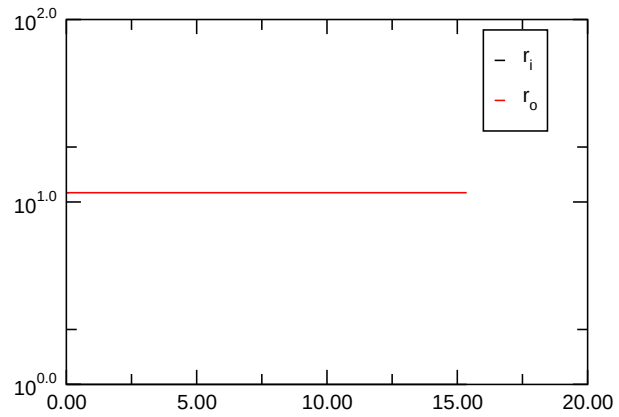
$E_{\text{kin,symm.}}$



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



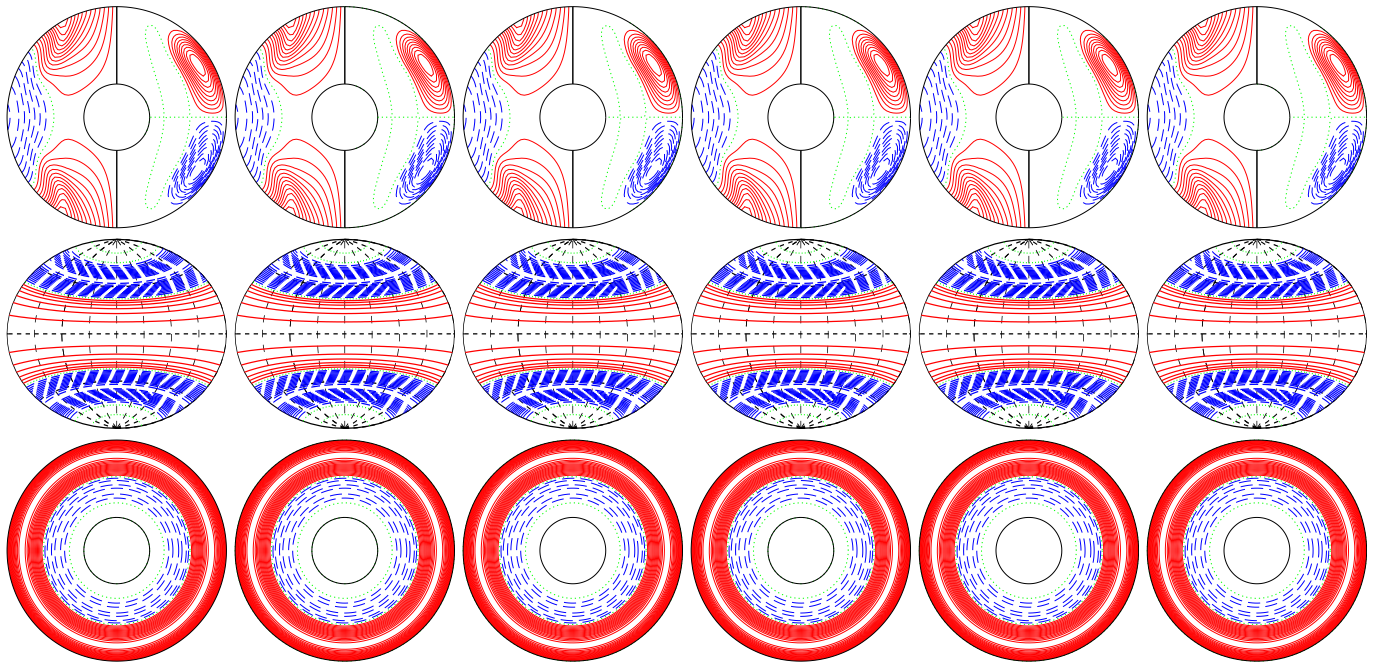
Nusselt Number



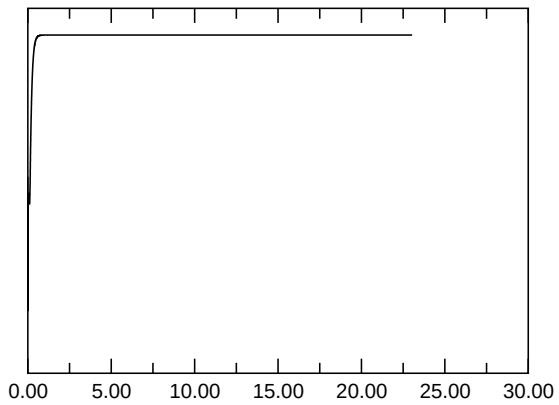
a.e03p005t03r-50000m1n2N2z14e4.19

times: 16.64001 17.92001 19.20001 20.48001 21.76001 23.04001

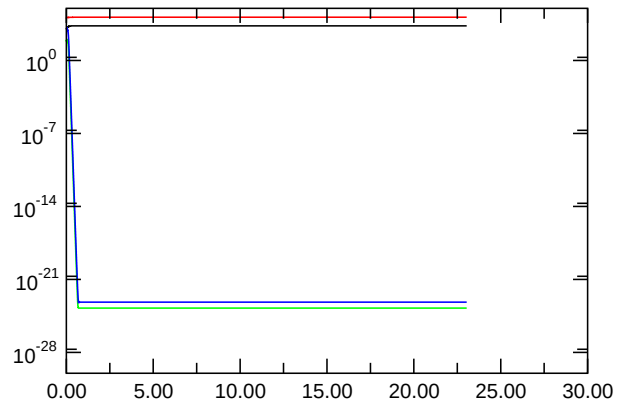
October 3, 2017



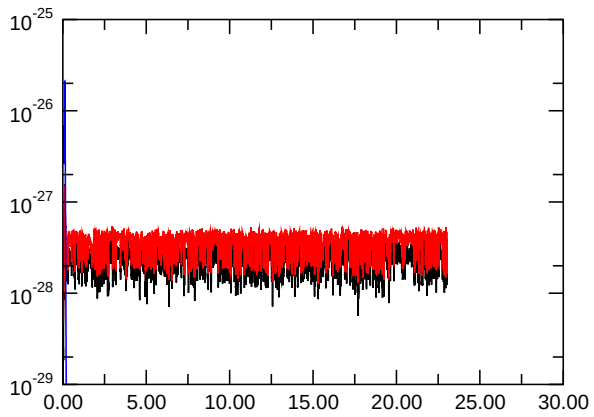
a.e03p005t03r-50000m1n2N2z14e4
 E_{kin}



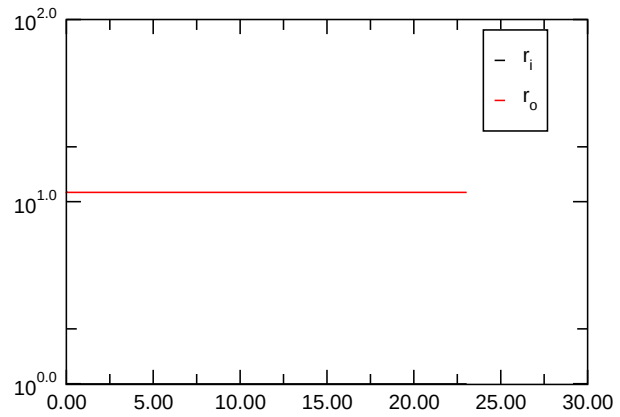
$E_{\text{kin,symm.}}$



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



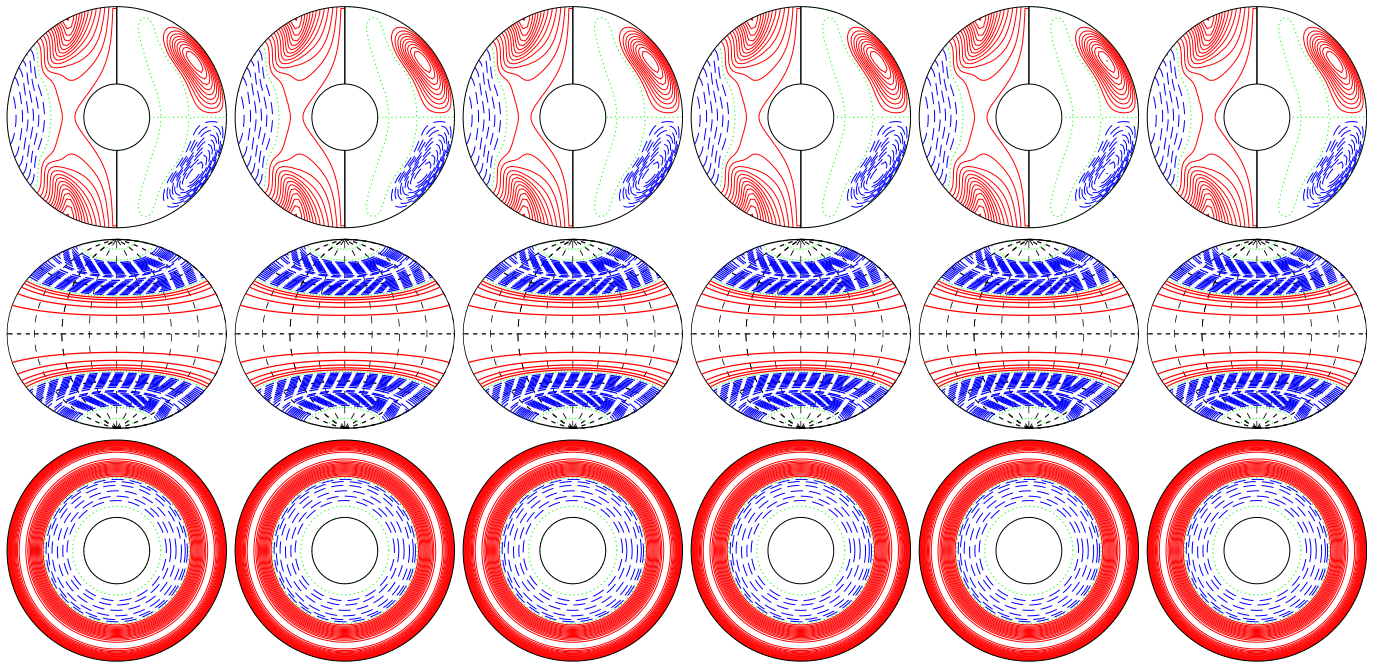
Nusselt Number



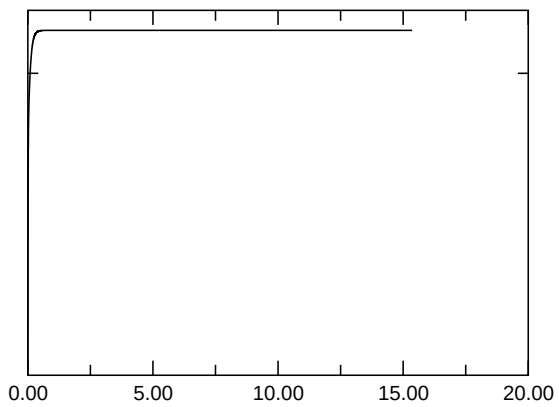
a.e03p005t03r-50000m1n2N2z16e4b.13

times: 8.960007 10.24001 11.52001 12.80001 14.08001 15.36001

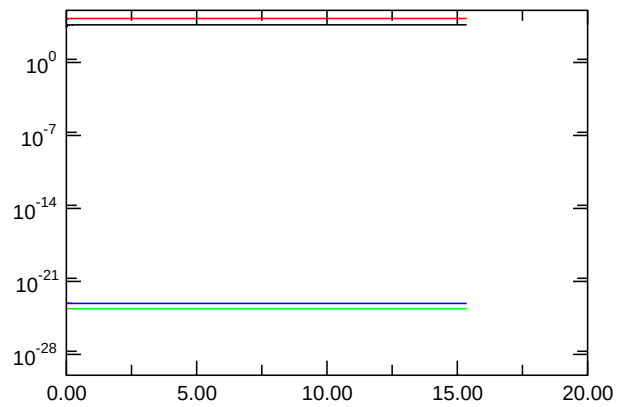
October 3, 2017



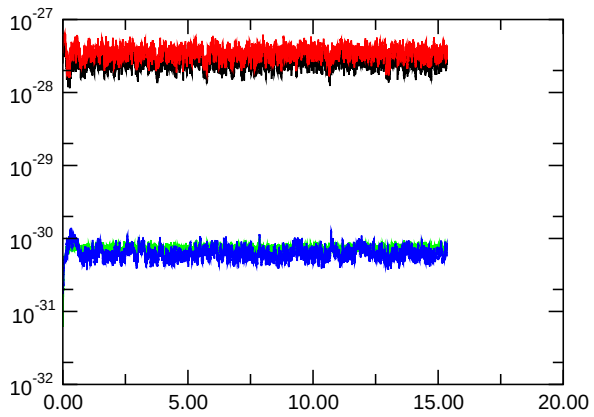
a.e03p005t03r-50000m1n2N2z16e4b
 E_{kin}



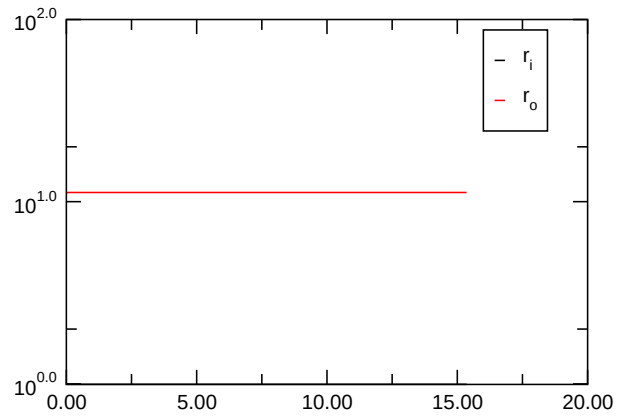
$E_{\text{kin,symm.}}$



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

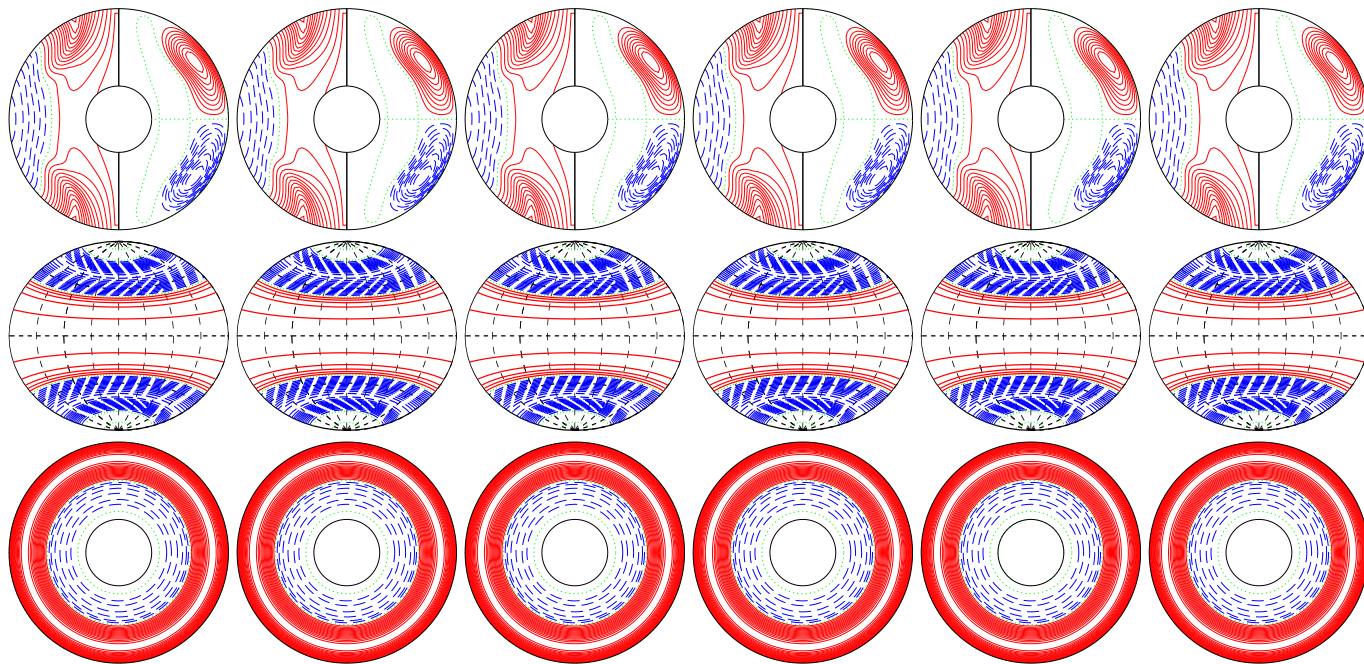


Nusselt Number

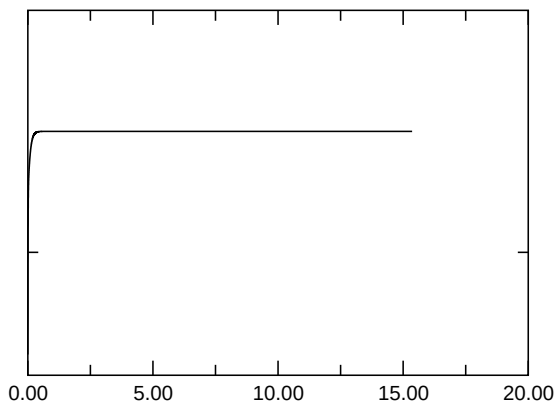


a.e03p005t03r-50000m1n2N2z18e4b.13
times: 8.960007 10.24001 11.52001 12.80001 14.08001 15.36001

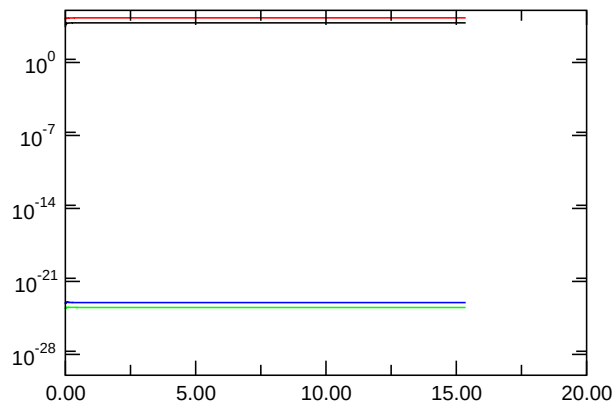
October 3, 2017



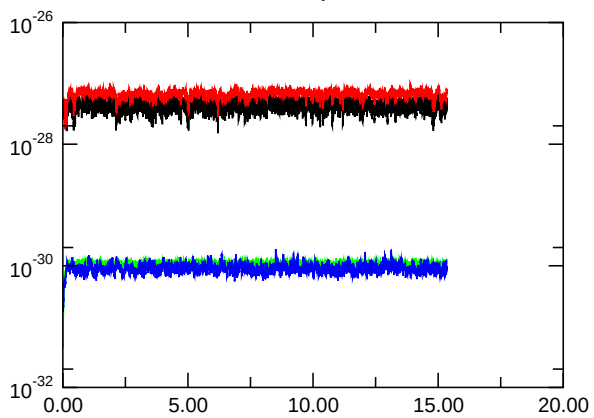
a.e03p005t03r-50000m1n2N2z18e4b
 E_{kin}



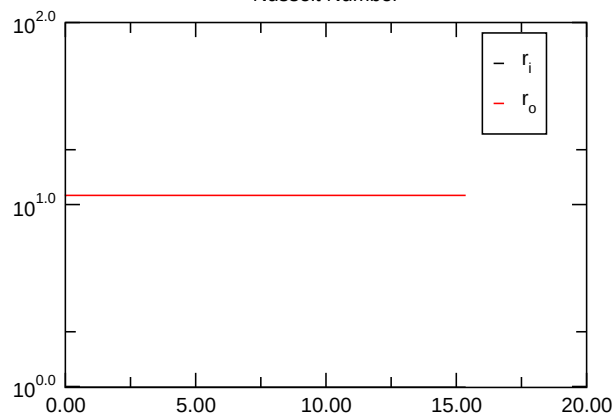
$E_{\text{kin,symm.}}$



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



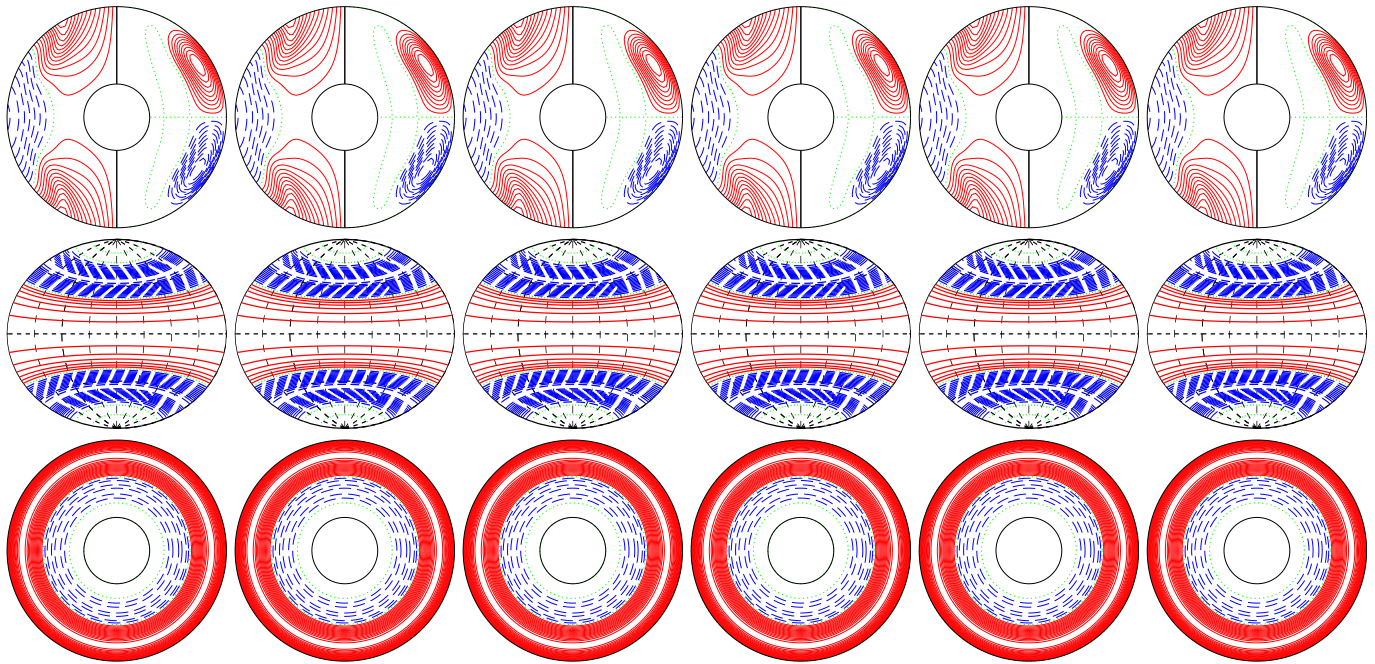
Nusselt Number



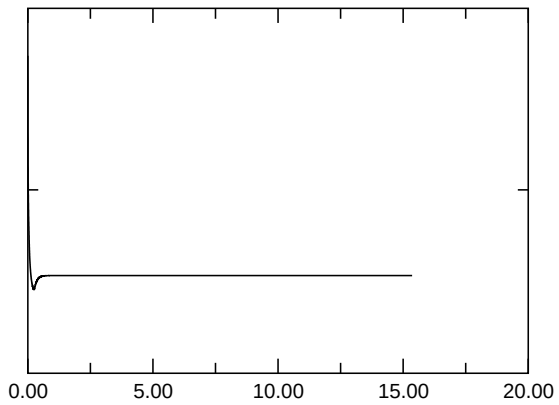
a.e03p005t03r-50000m1n2N2z14e4a.13

times: 8.960007 10.24001 11.52001 12.80001 14.08001 15.36001

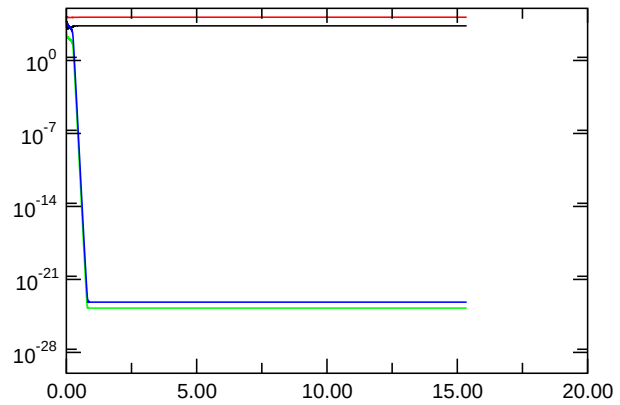
October 3, 2017



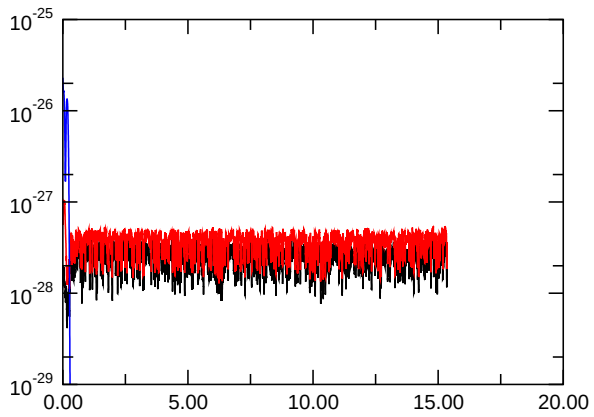
a.e03p005t03r-50000m1n2N2z14e4a
 E_{kin}



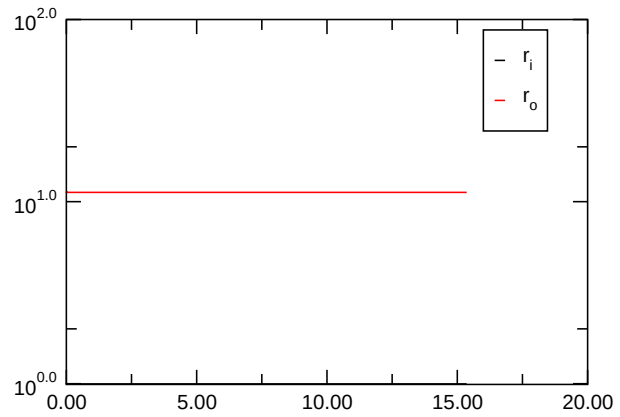
$E_{\text{kin, symm.}}$



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



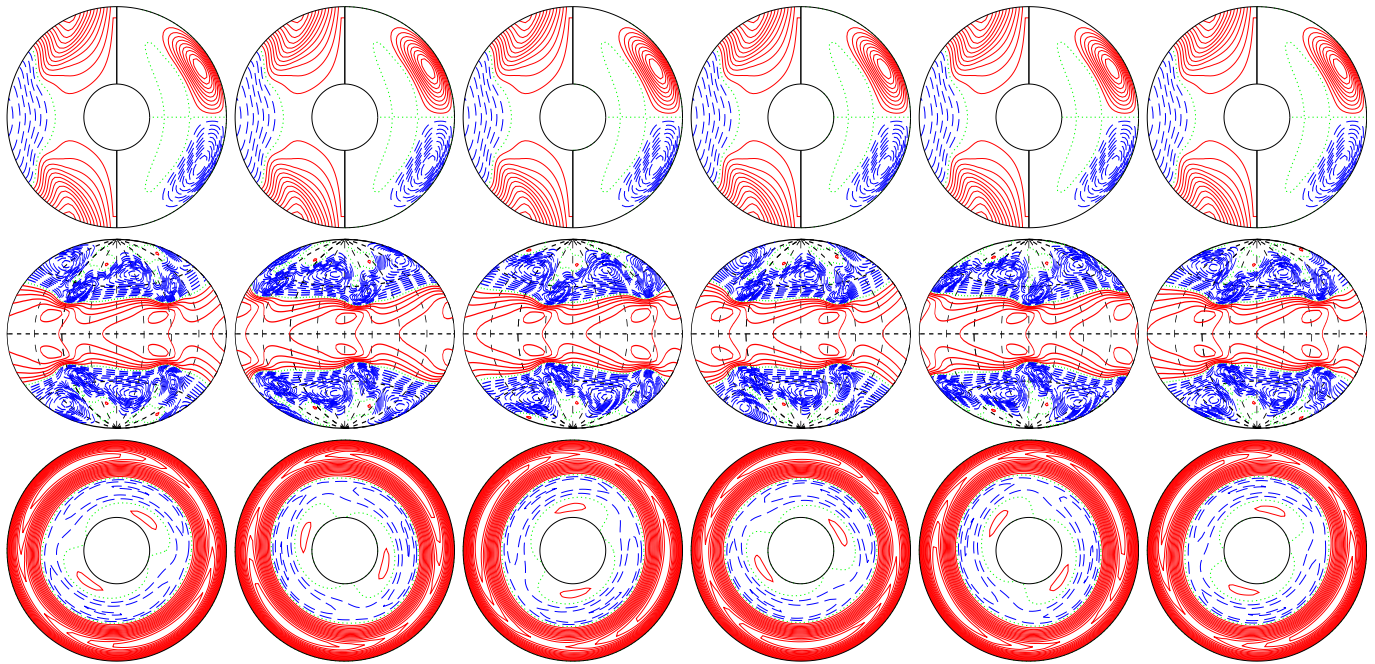
Nusselt Number



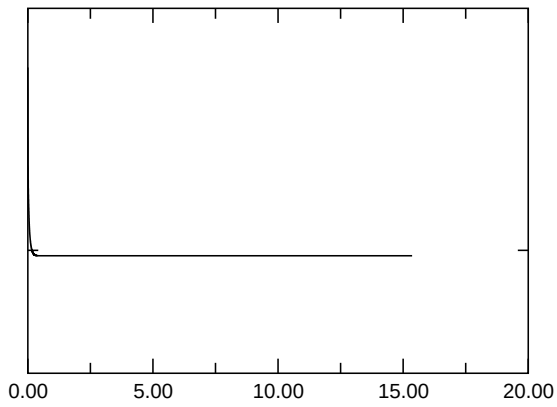
a.e03p005t03r-50000m1n2N2z16e4a.13

times: 8.960007 10.24001 11.52001 12.80001 14.08001 15.36001

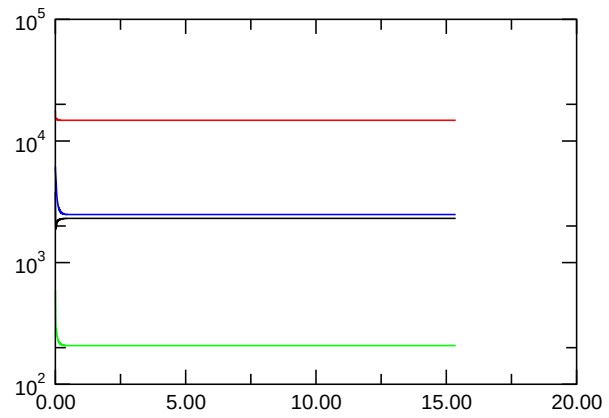
October 3, 2017



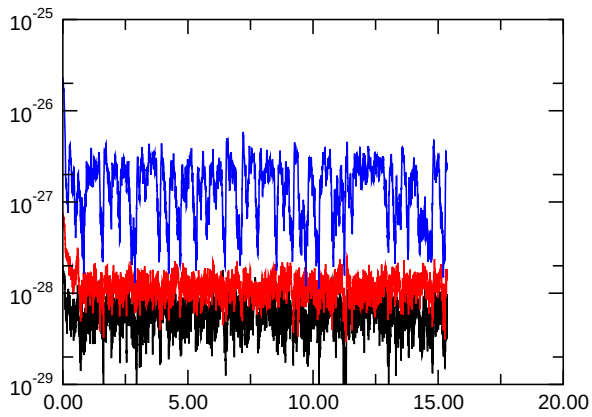
a.e03p005t03r-50000m1n2N2z16e4a
 E_{kin}



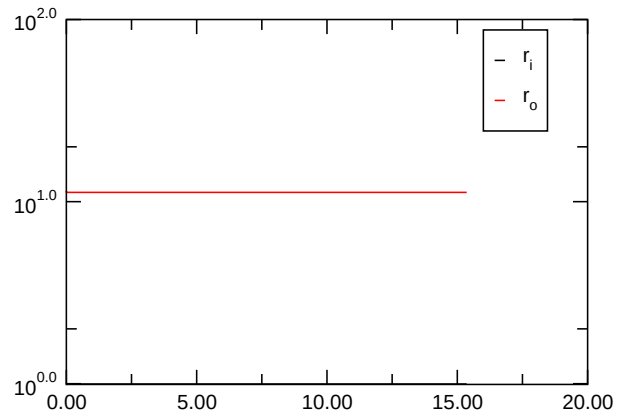
$E_{\text{kin,symm.}}$



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

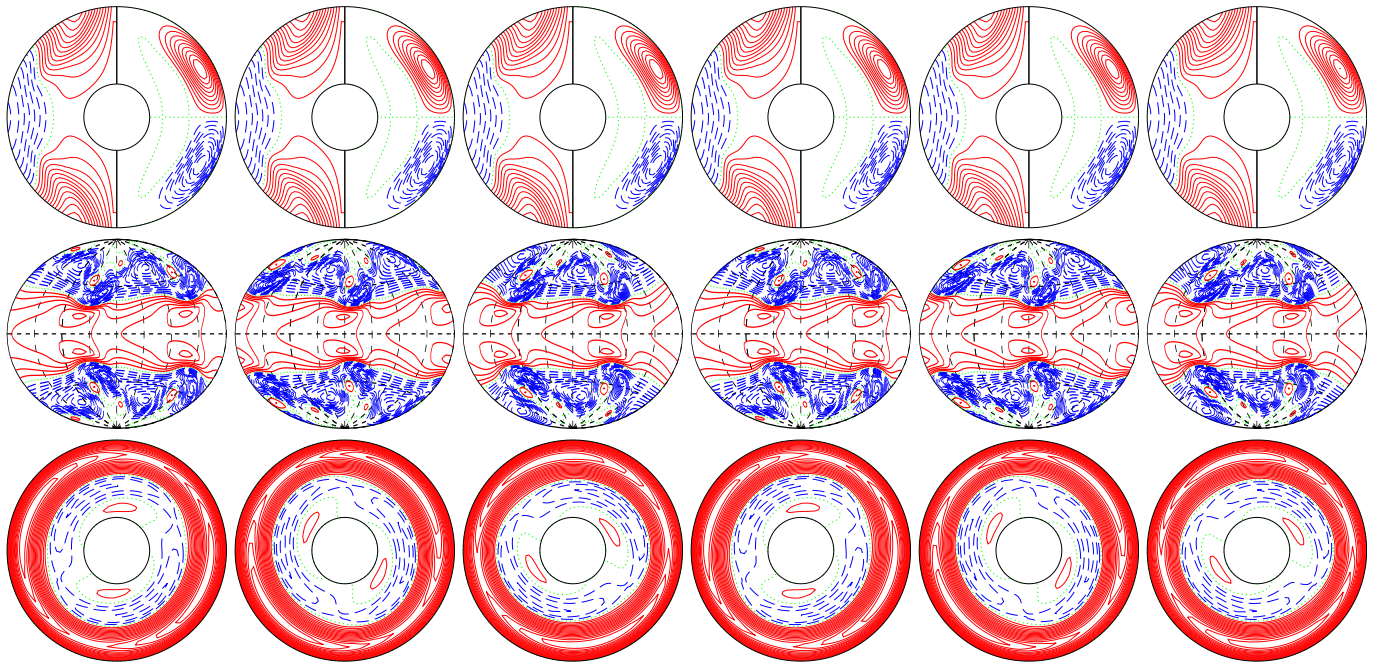


Nusselt Number

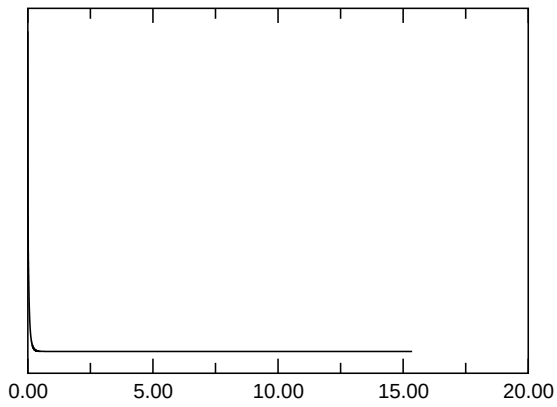


a.e03p005t03r-50000m1n2N2z18e4a.13
times: 8.960007 10.24001 11.52001 12.80001 14.08001 15.36001

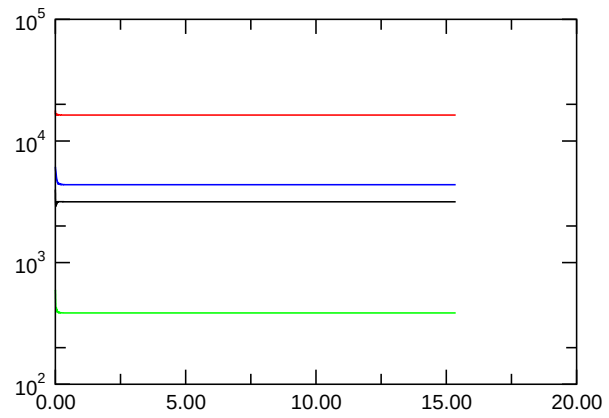
October 3, 2017



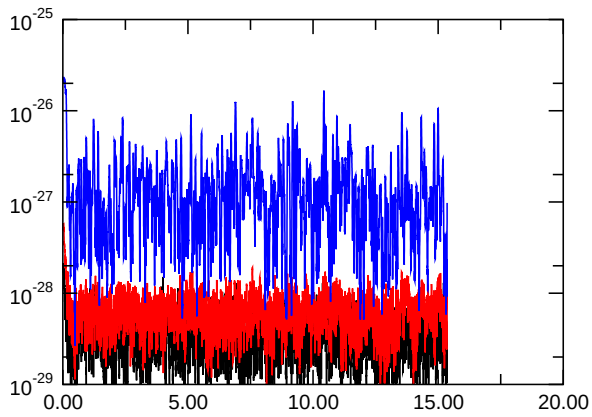
a.e03p005t03r-50000m1n2N2z18e4a
 E_{kin}



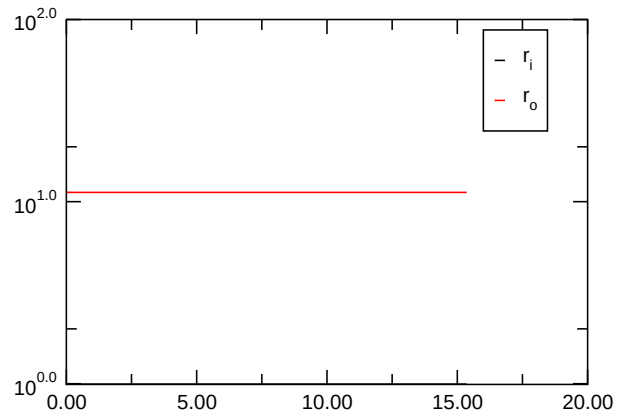
$E_{\text{kin,symm.}}$



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



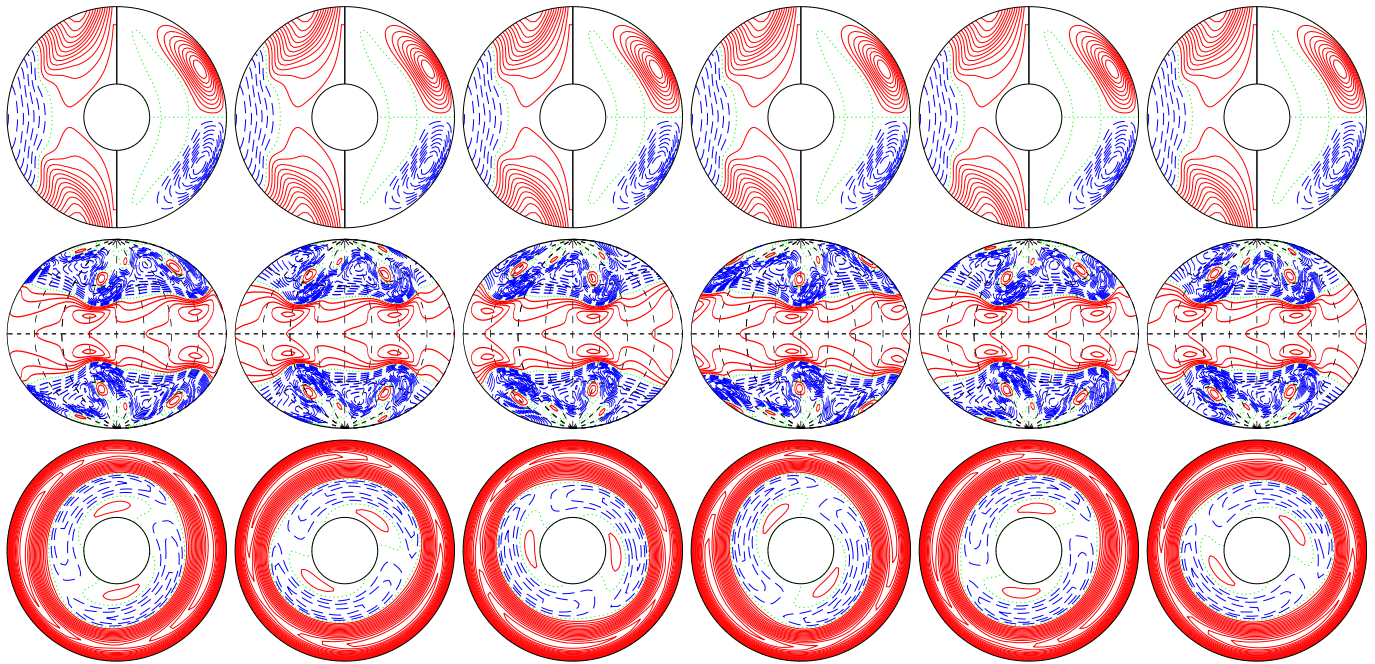
Nusselt Number



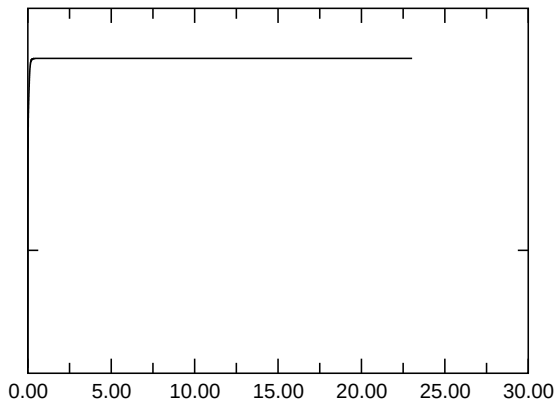
a.e03p005t03r-50000m1n2N2z20e4.19

times: 16.64001 17.92001 19.20001 20.48001 21.76001 23.04001

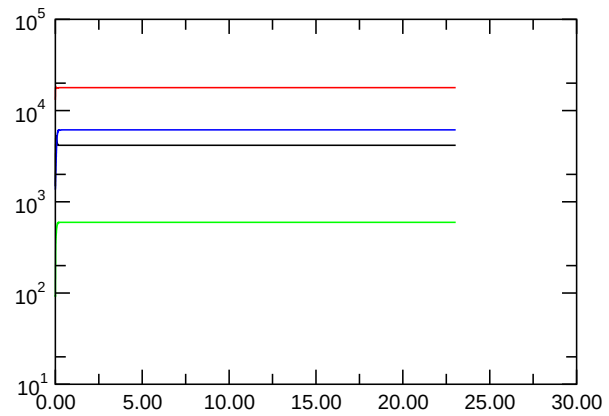
October 3, 2017



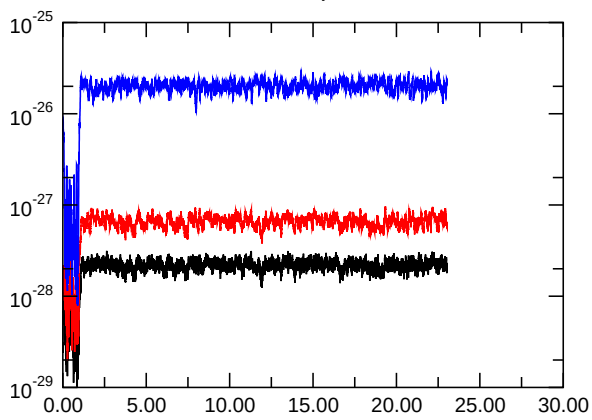
a.e03p005t03r-50000m1n2N2z20e4
 E_{kin}



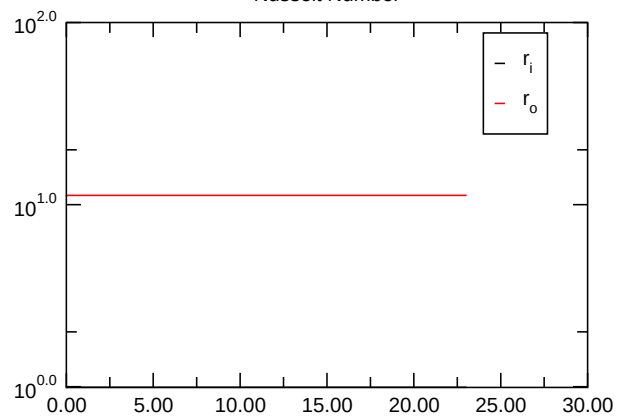
$E_{\text{kin,symm.}}$



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



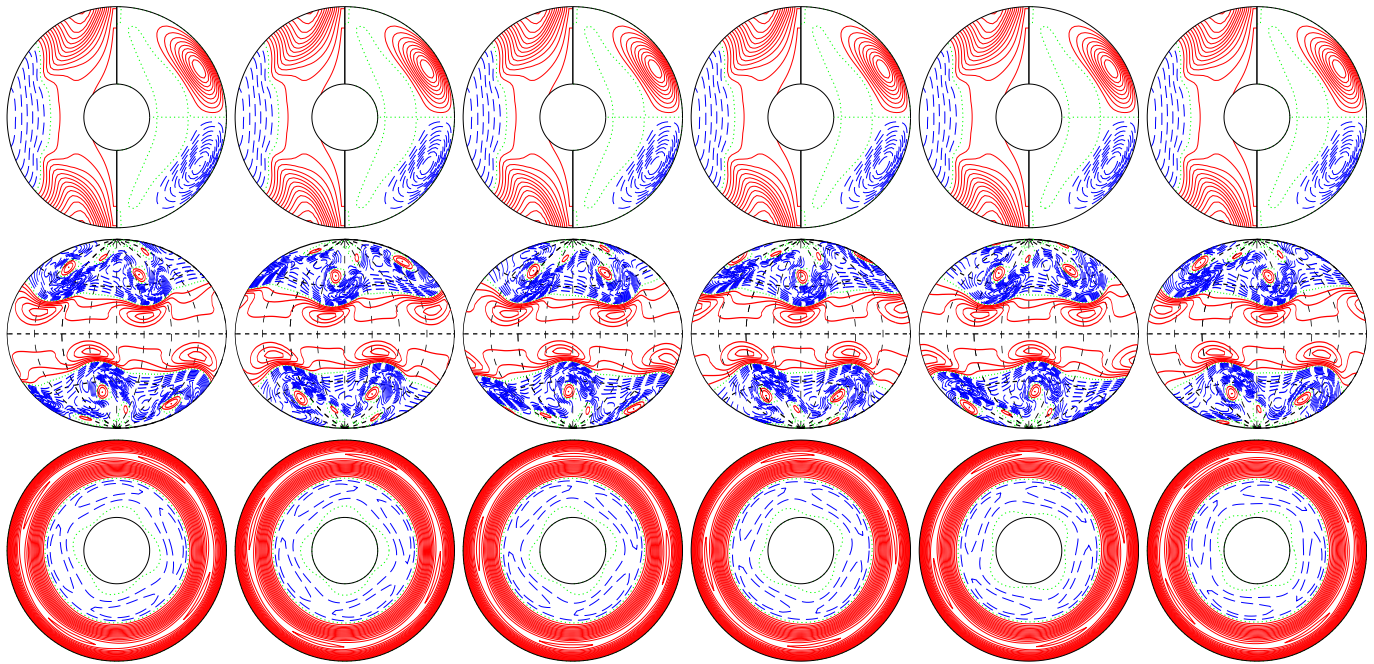
Nusselt Number



a.e03p005t03r-50000m1n2N2z23e4b.13

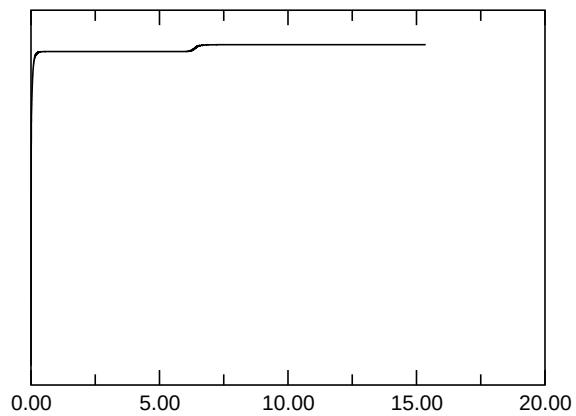
times: 8.960007 10.24001 11.52001 12.80001 14.08001 15.36001

October 3, 2017

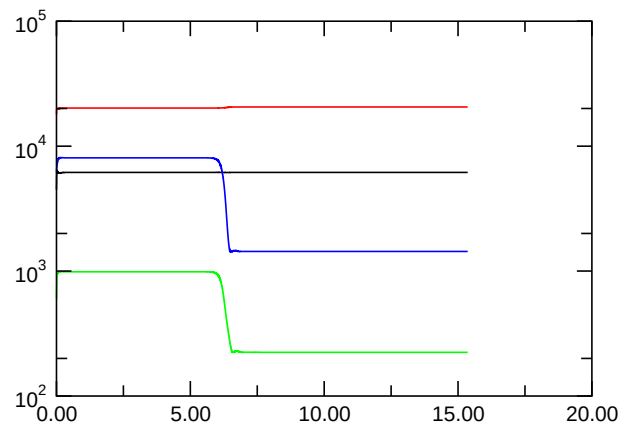


a.e03p005t03r-50000m1n2N2z23e4b

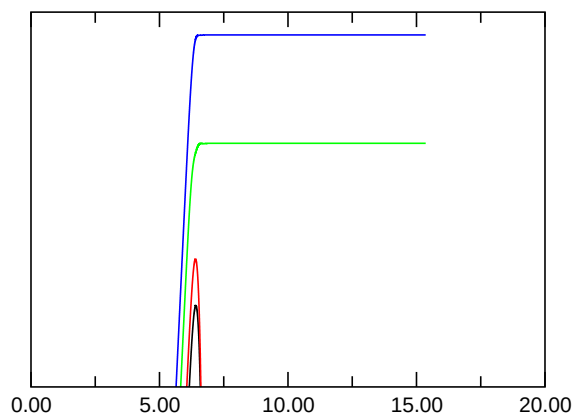
E_{kin}



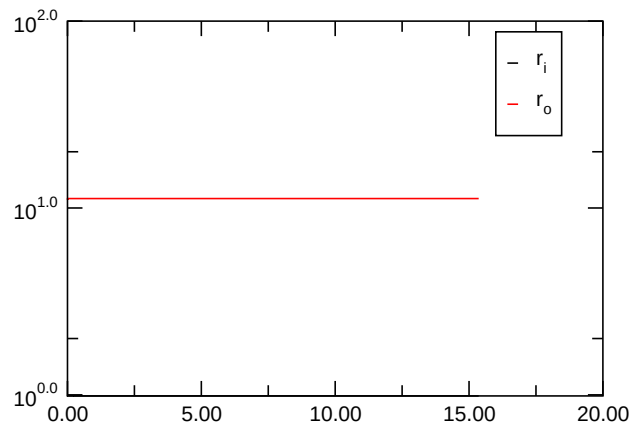
$E_{\text{kin,symm.}}$



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



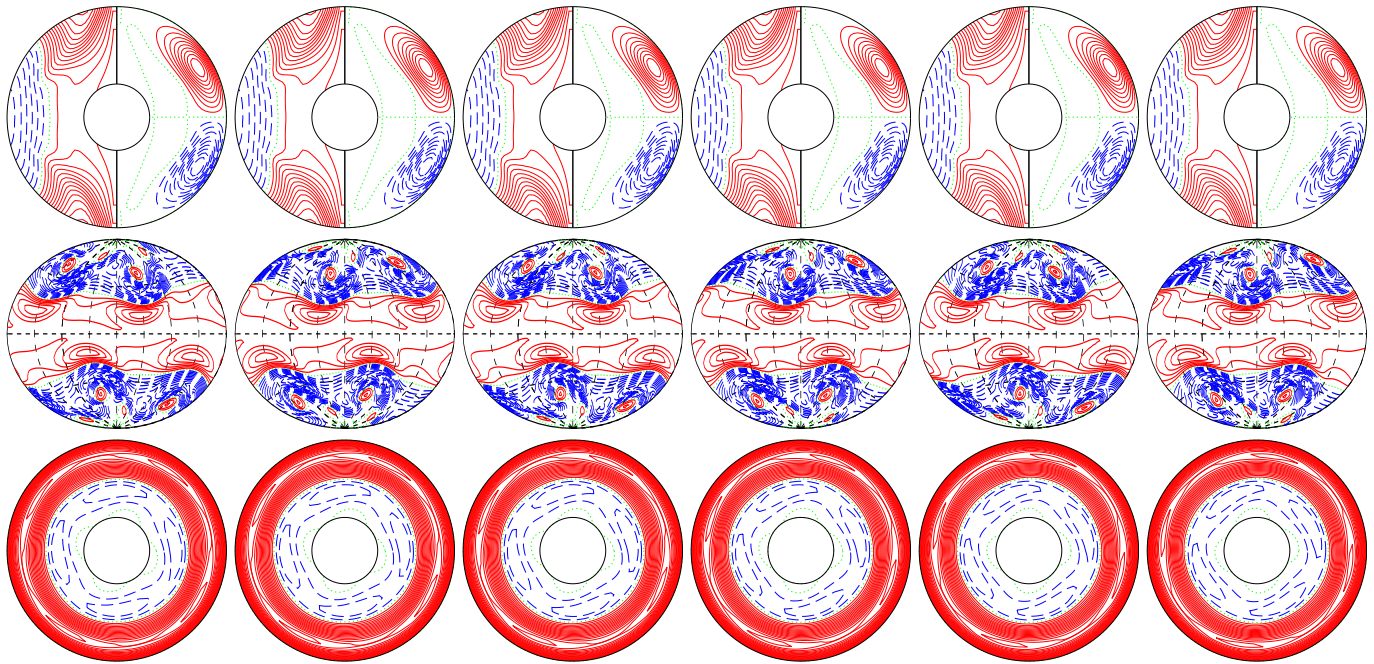
Nusselt Number



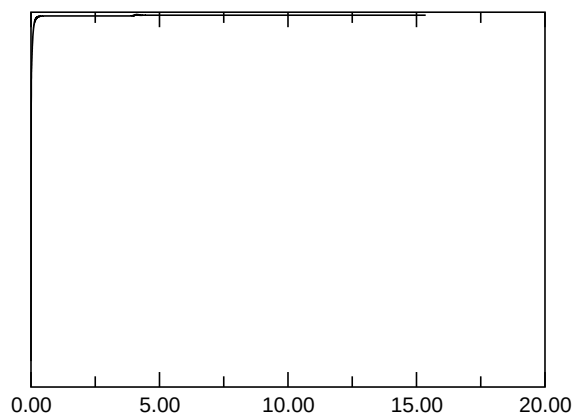
a.e03p005t03r-50000m1n2N2z25e4b.13

times: 8.960007 10.24001 11.52001 12.80001 14.08001 15.36001

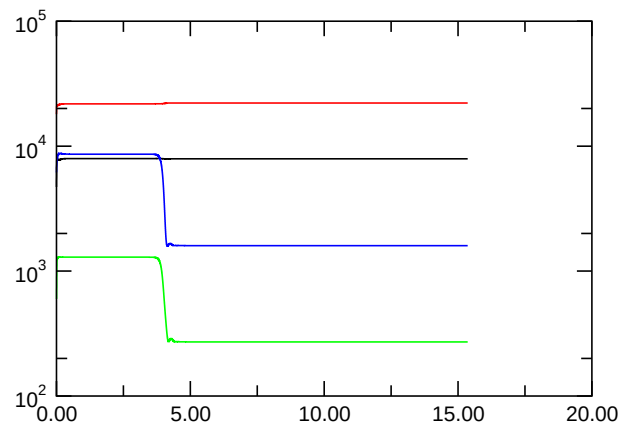
October 3, 2017



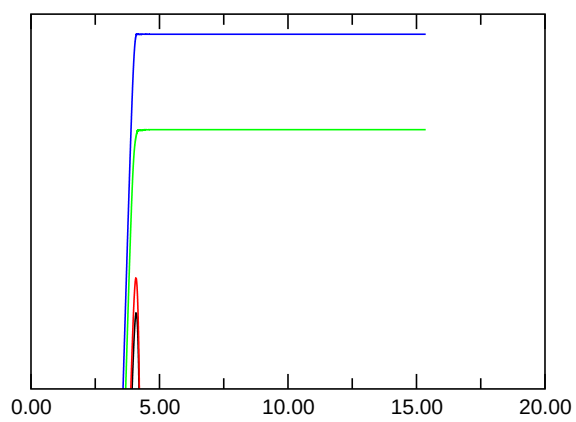
a.e03p005t03r-50000m1n2N2z25e4b
 E_{kin}



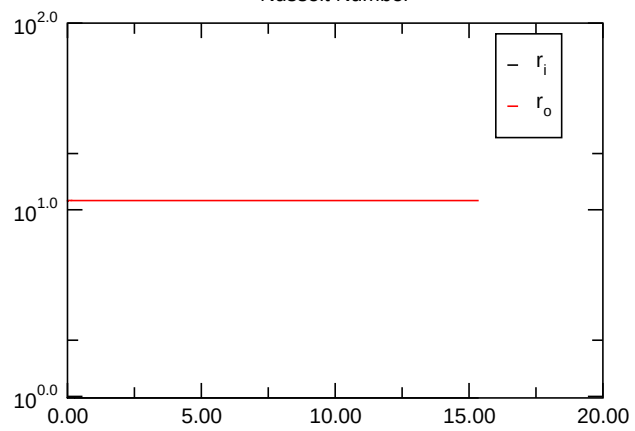
$E_{\text{kin,symm.}}$



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



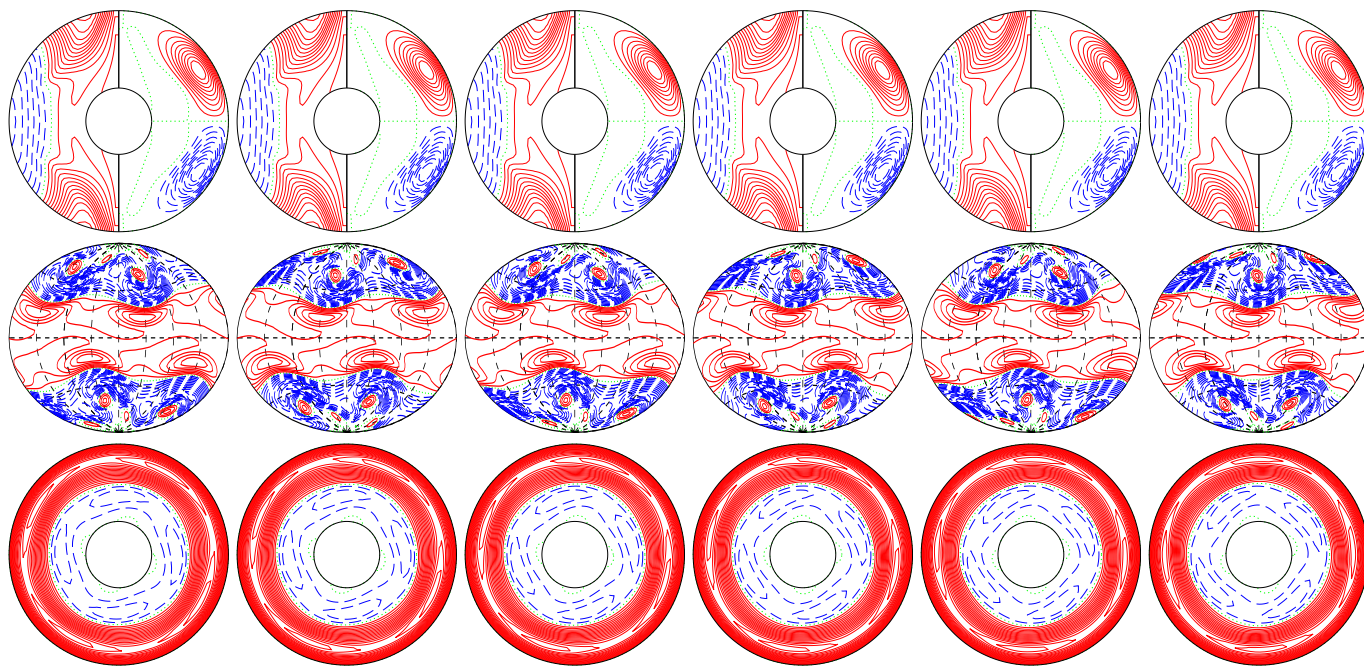
Nusselt Number



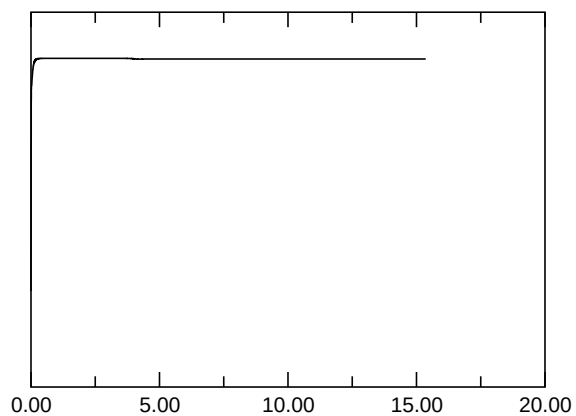
a.e03p005t03r-50000m1n2N2z28e4b.13

times: 8.960007 10.24001 11.52001 12.80001 14.08001 15.36001

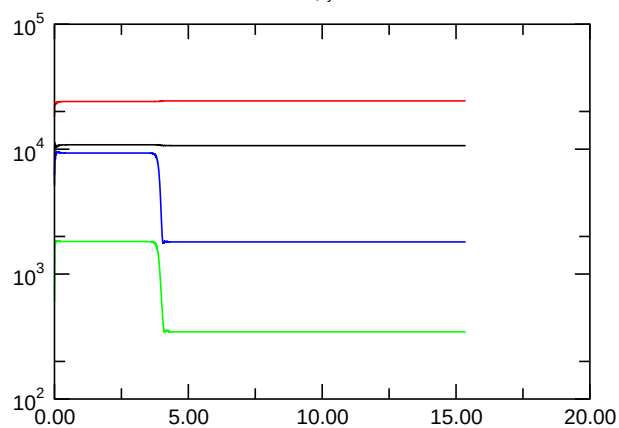
October 3, 2017



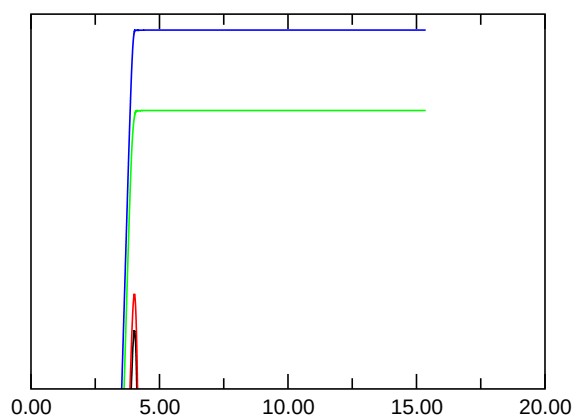
a.e03p005t03r-50000m1n2N2z28e4b
 E_{kin}



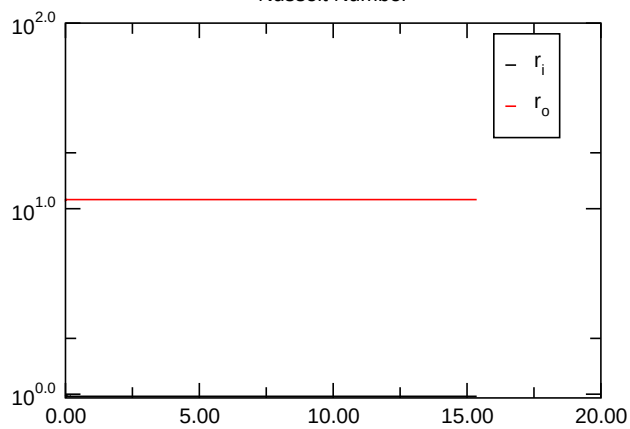
$E_{\text{kin,symm.}}$



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

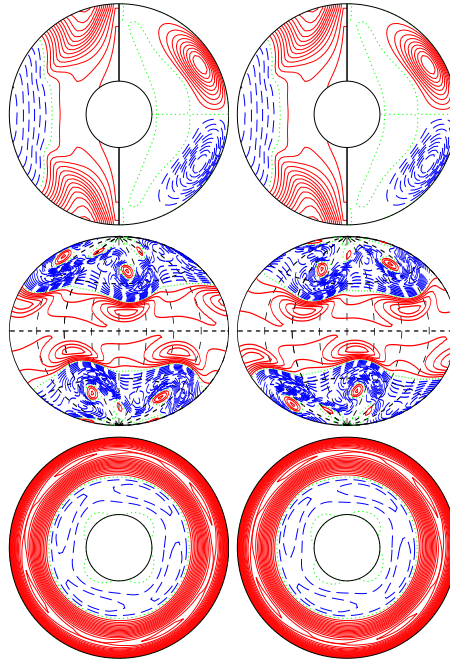


Nusselt Number

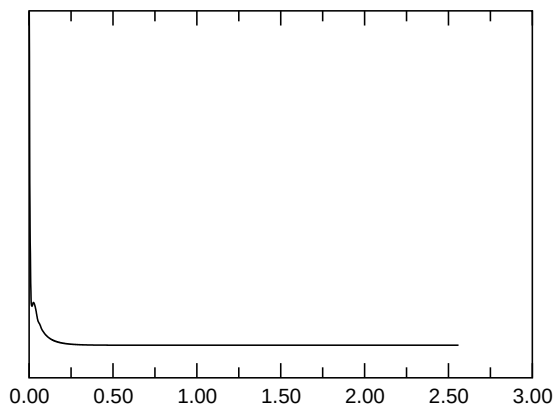


a.e03p005t03r-50000m1n2N2z25e4a.3
times: 1.280001 2.560002

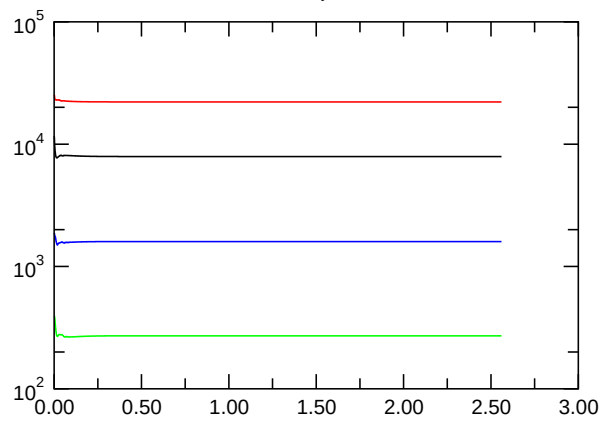
October 3, 2017



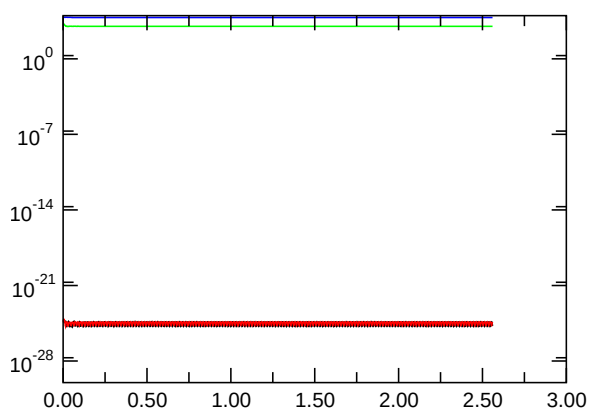
a.e03p005t03r-50000m1n2N2z25e4a
 E_{kin}



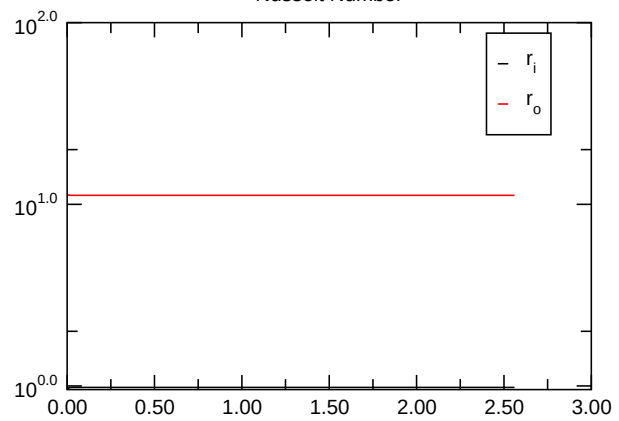
$E_{\text{kin,symm.}}$



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



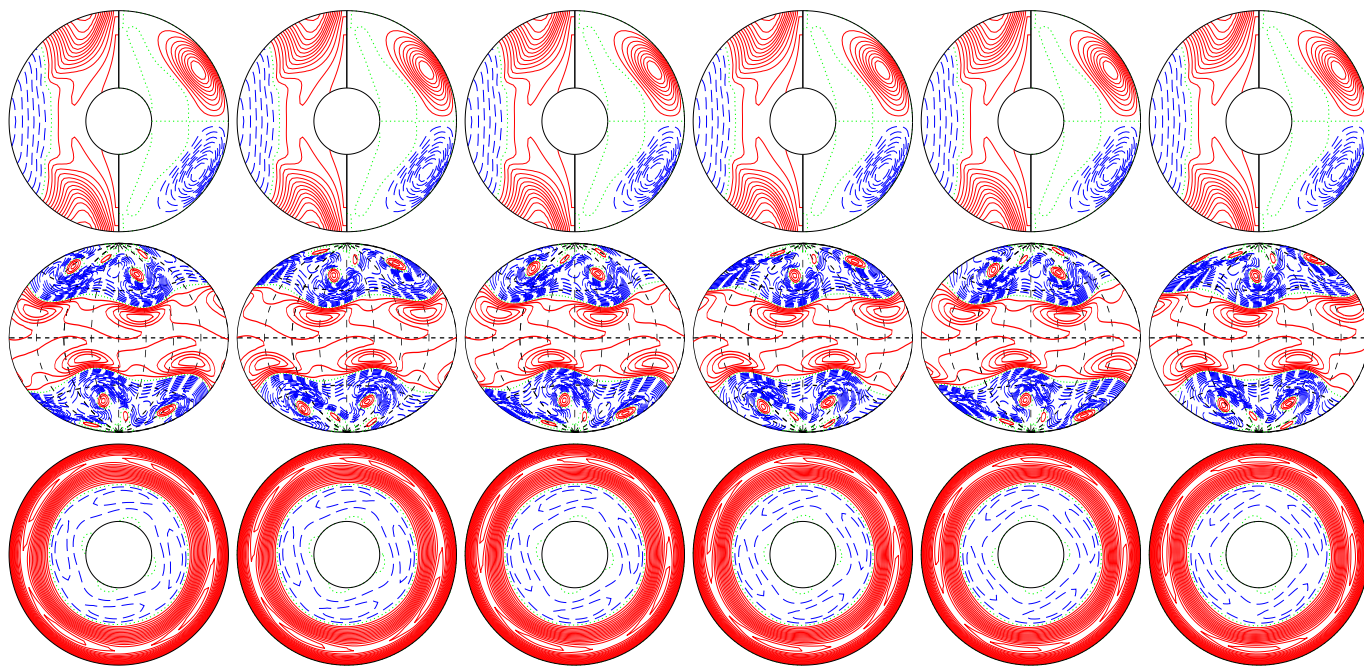
Nusselt Number



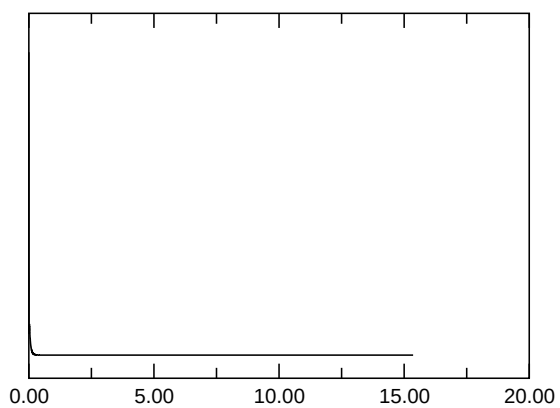
a.e03p005t03r-50000m1n2N2z28e4a.13

times: 8.960007 10.24001 11.52001 12.80001 14.08001 15.36001

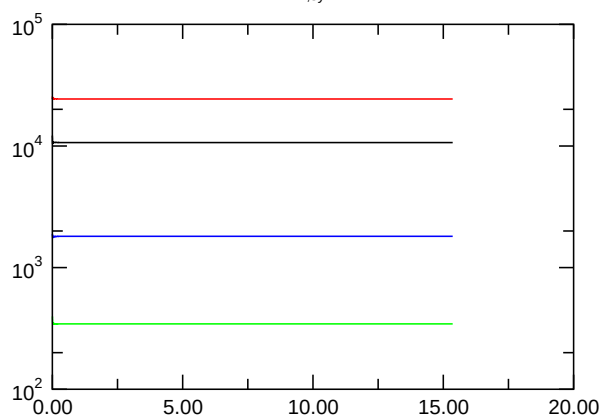
October 3, 2017



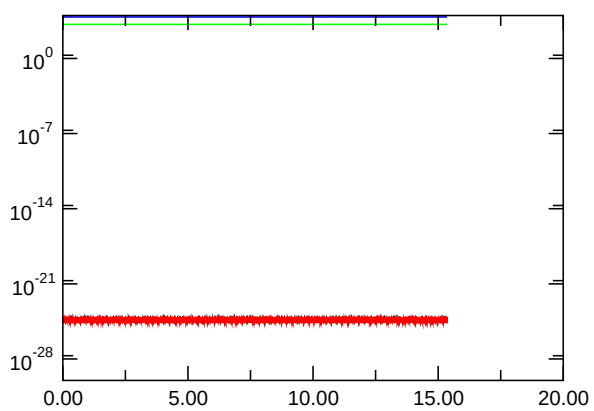
a.e03p005t03r-50000m1n2N2z28e4a
 E_{kin}



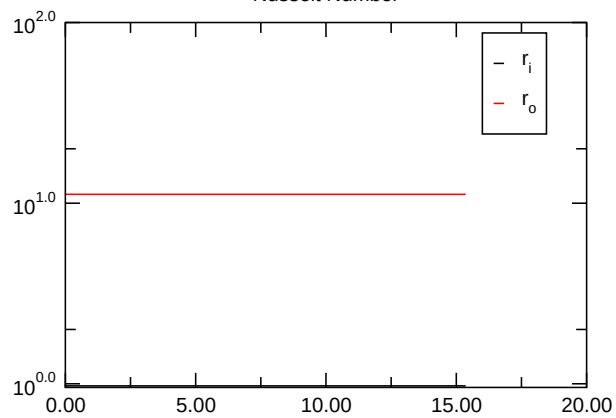
$E_{\text{kin,symm.}}$



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



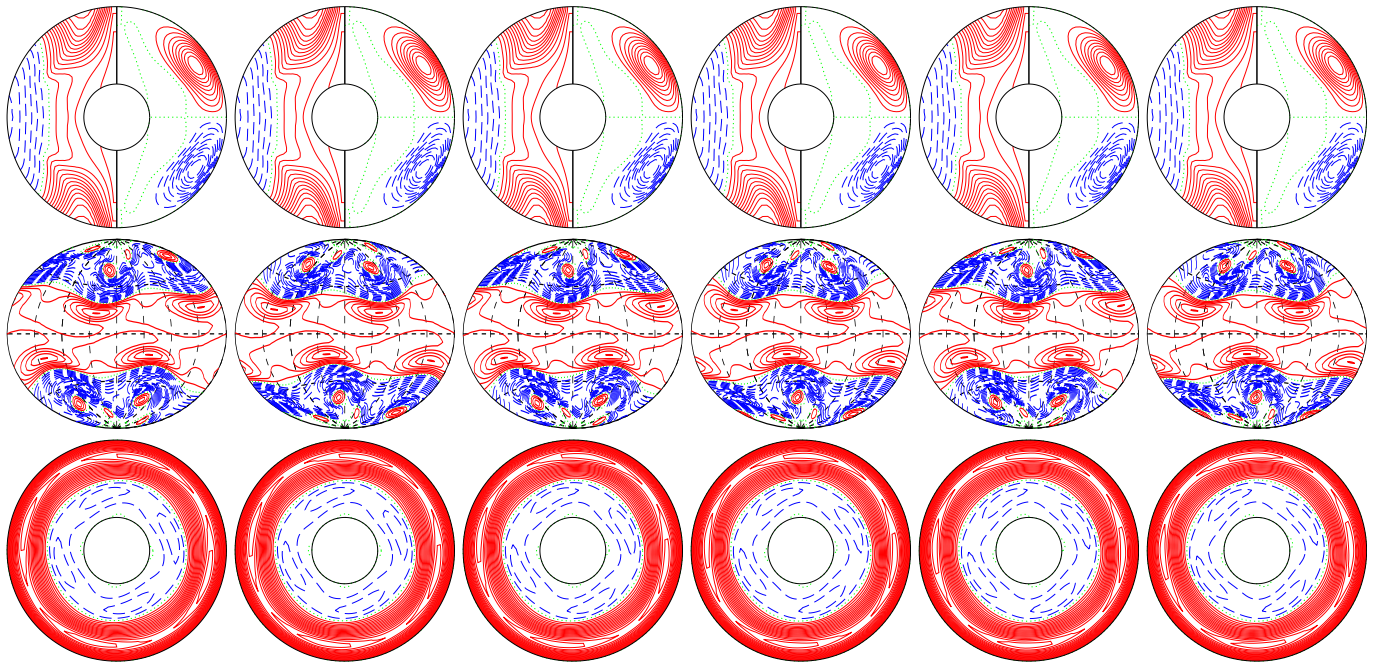
Nusselt Number



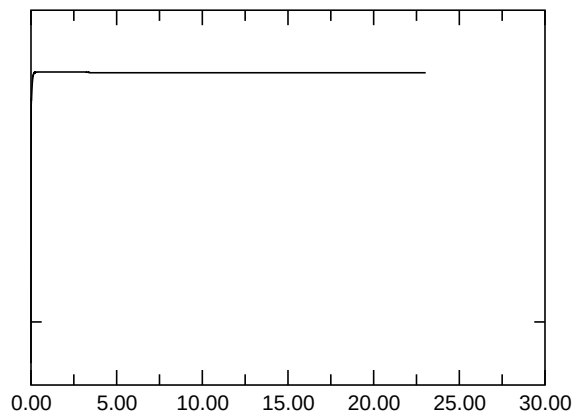
a.e03p005t03r-50000m1n2N2z30e4.19

times: 16.64001 17.92001 19.20001 20.48001 21.76001 23.04001

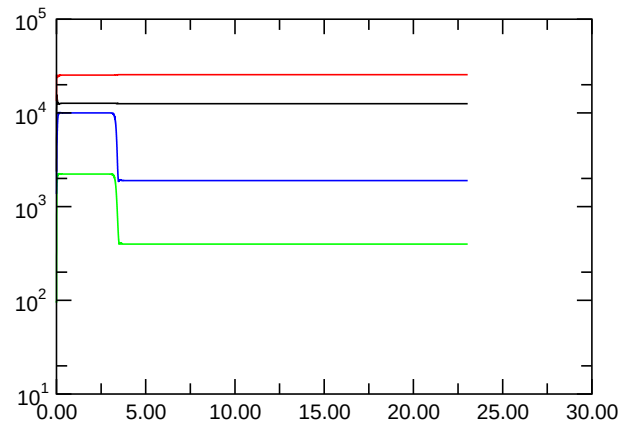
October 3, 2017



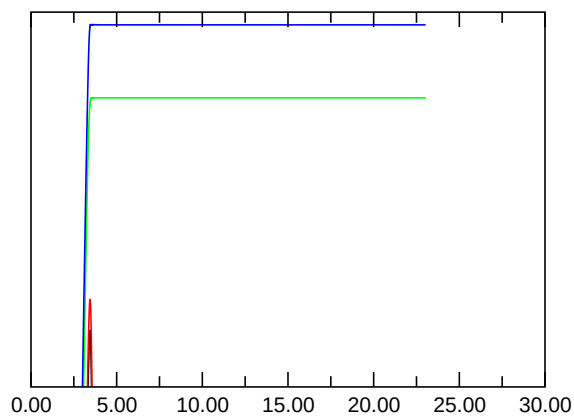
a.e03p005t03r-50000m1n2N2z30e4
 E_{kin}



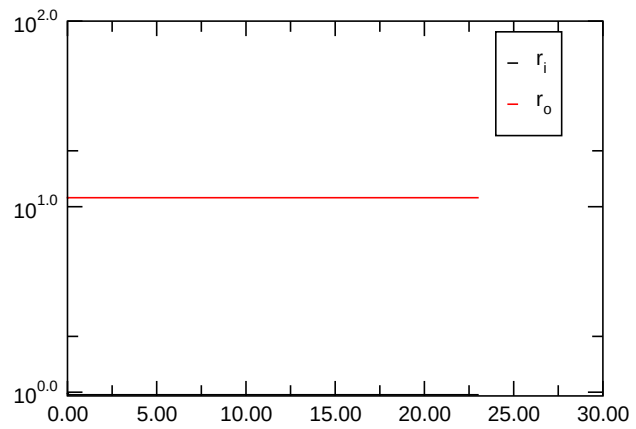
$E_{\text{kin,symm.}}$



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



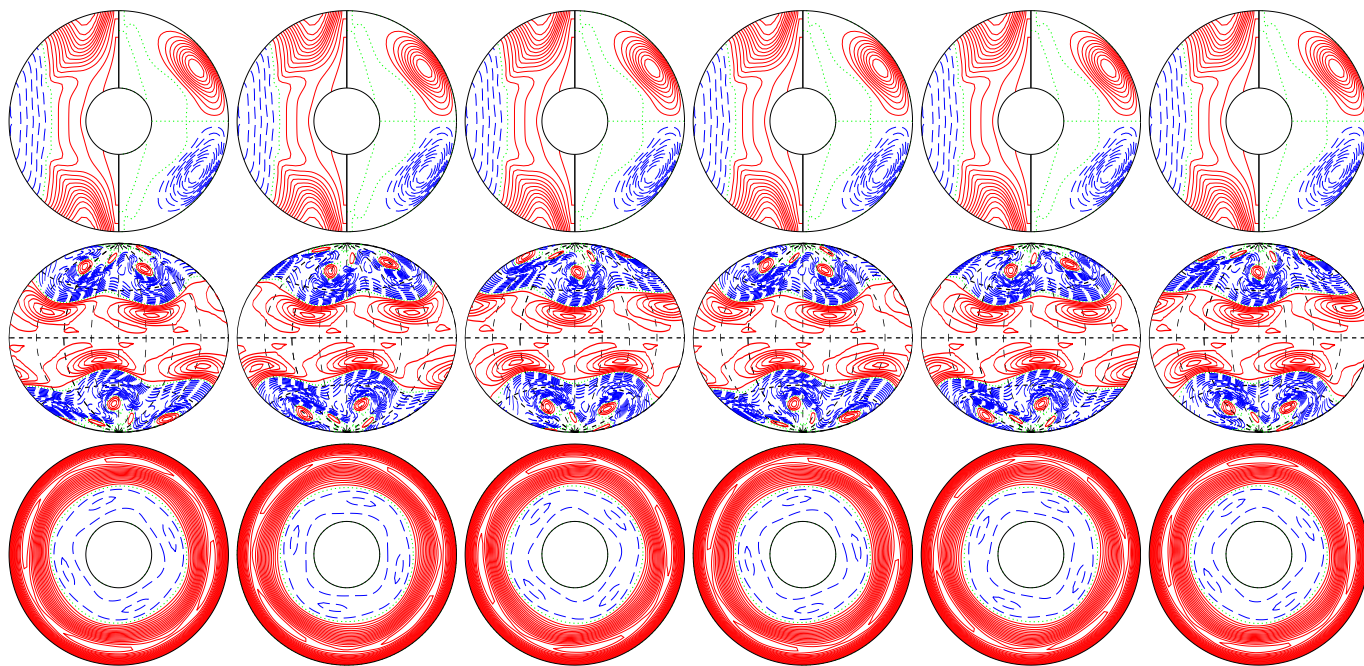
Nusselt Number



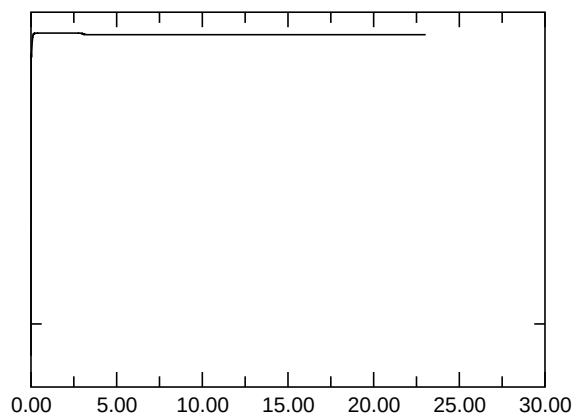
a.e03p005t03r-50000m1n2N2z34e4.19

times: 16.64001 17.92001 19.20001 20.48001 21.76001 23.04001

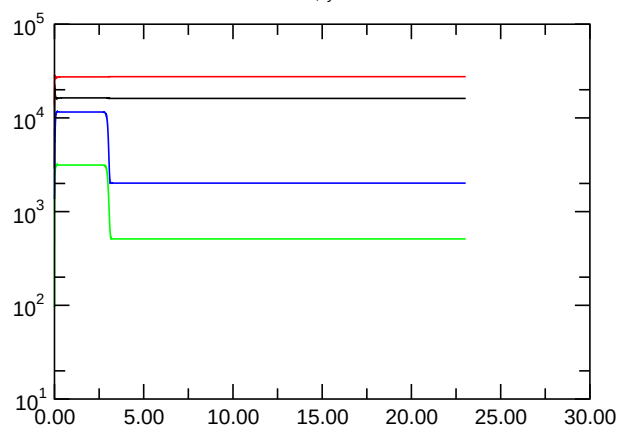
October 3, 2017



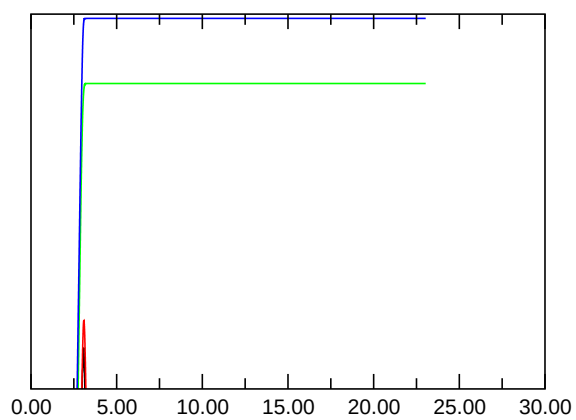
a.e03p005t03r-50000m1n2N2z34e4
 E_{kin}



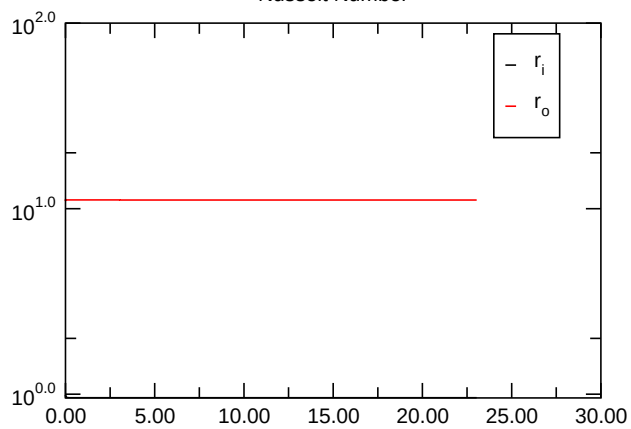
$E_{\text{kin,symm.}}$



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



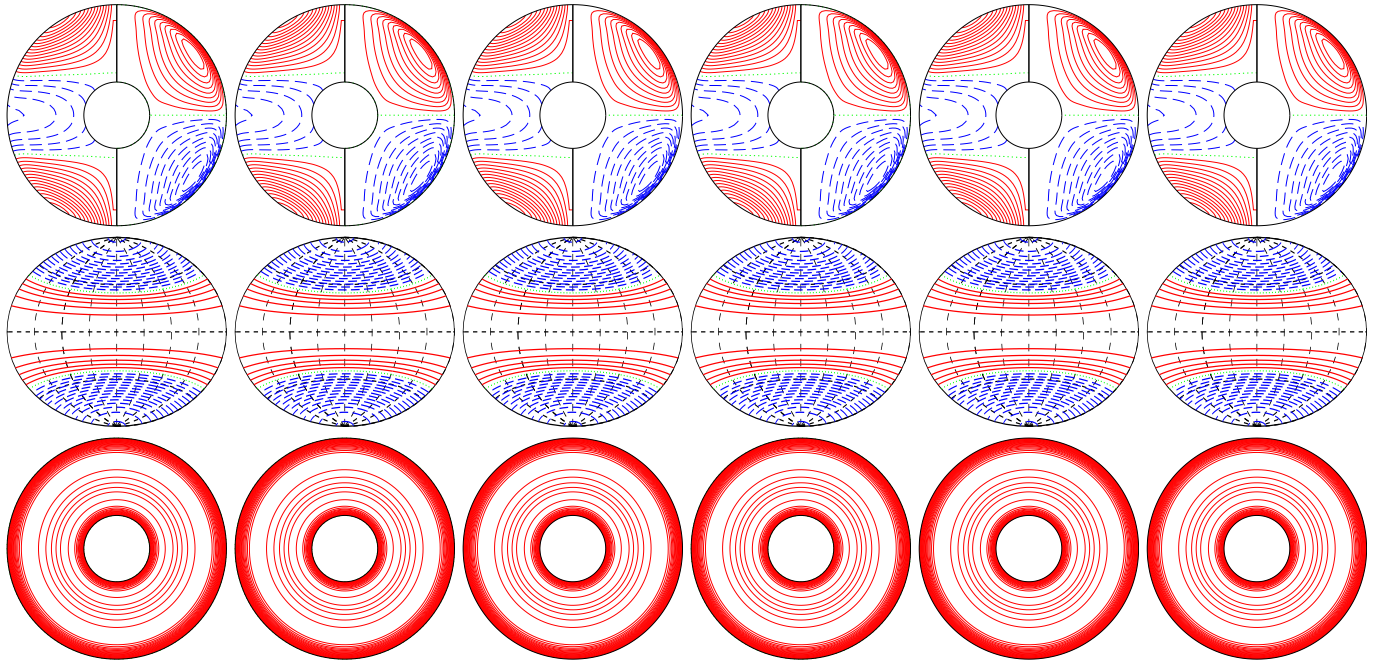
Nusselt Number



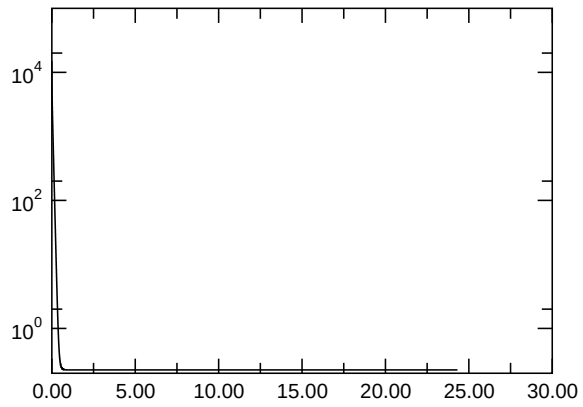
a.e03p005t06r-50000m1n2N2z1e3.20

times: 17.92001 19.20001 20.48001 21.76001 23.04001 24.32001

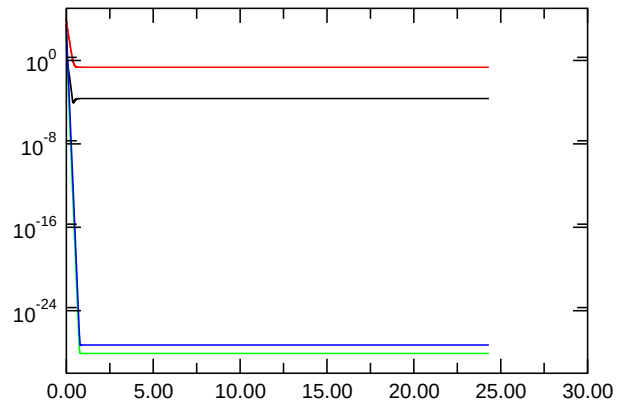
October 3, 2017



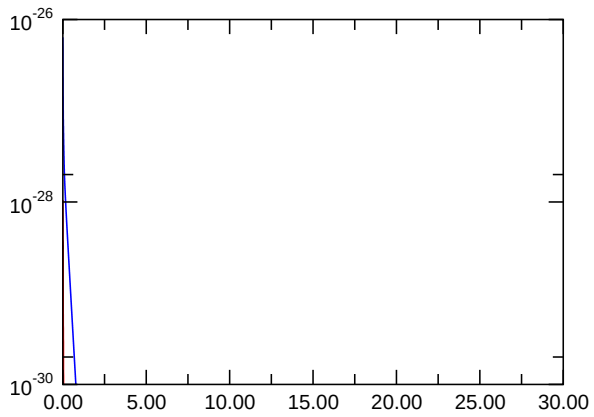
a.e03p005t06r-50000m1n2N2z1e3
 E_{kin}



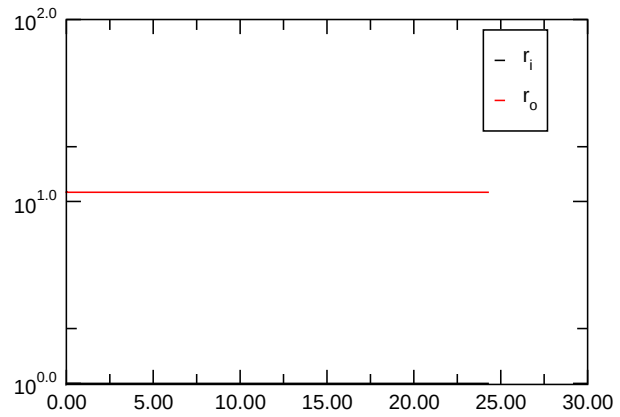
$E_{\text{kin, symm.}}$



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



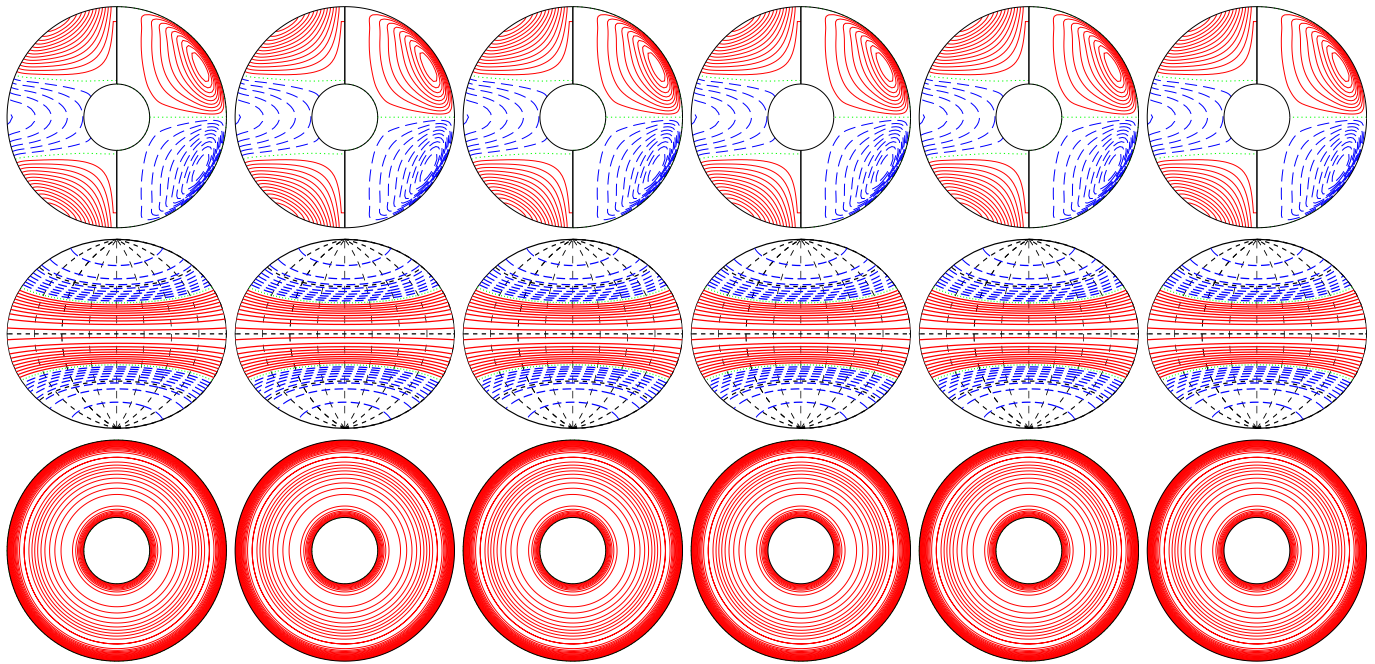
Nusselt Number



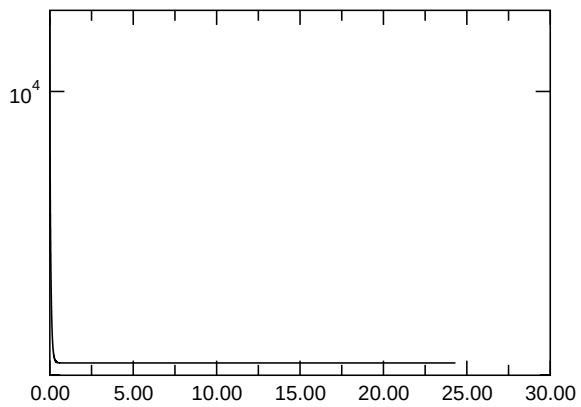
a.e03p005t06r-50000m1n2N2z10e4.20

times: 17.92001 19.20001 20.48001 21.76001 23.04001 24.32001

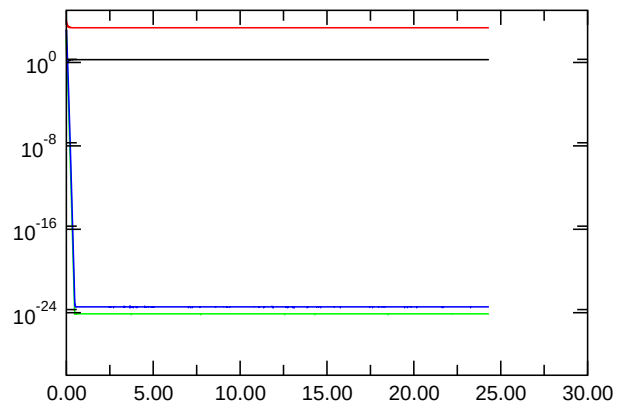
October 3, 2017



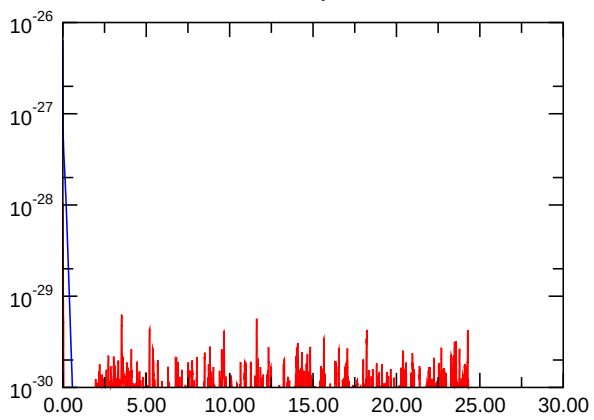
a.e03p005t06r-50000m1n2N2z10e4
 E_{kin}



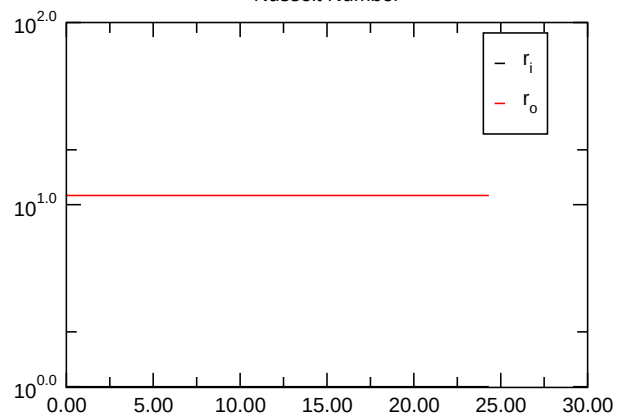
$E_{\text{kin,symm.}}$



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

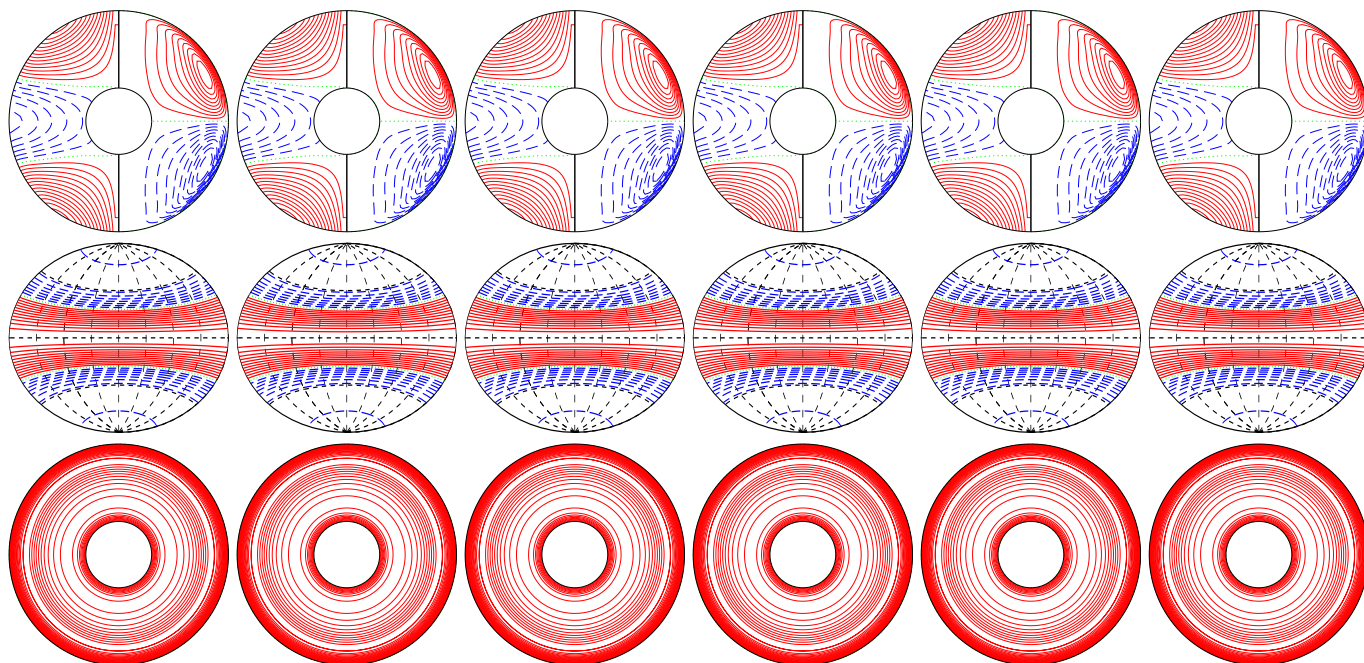


Nusselt Number

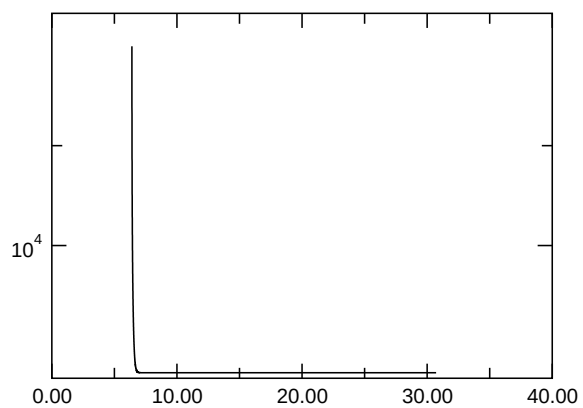


a.e03p005t06r-50000m1n2N2z14e4a.20
times: 24.32001 25.60001 26.88001 28.16001 29.44001 30.72001

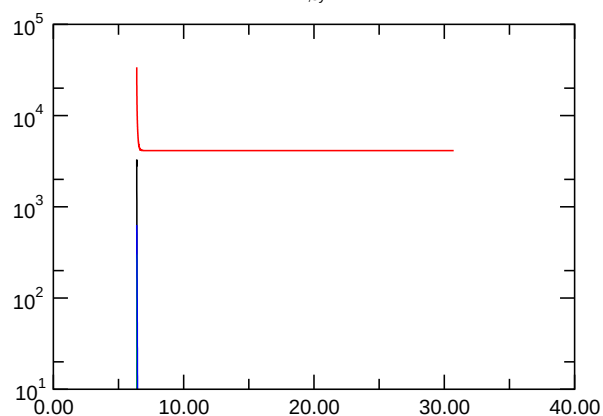
October 3, 2017



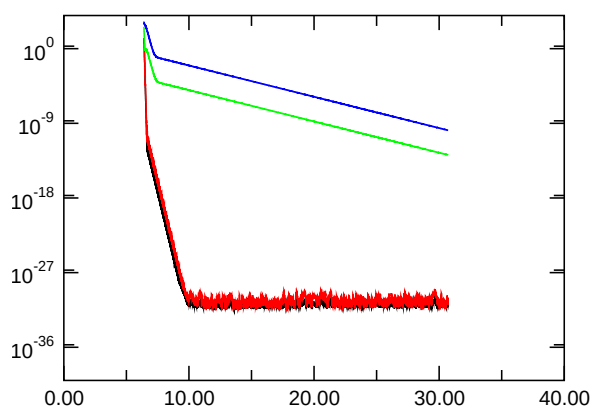
a.e03p005t06r-50000m1n2N2z14e4a
 E_{kin}



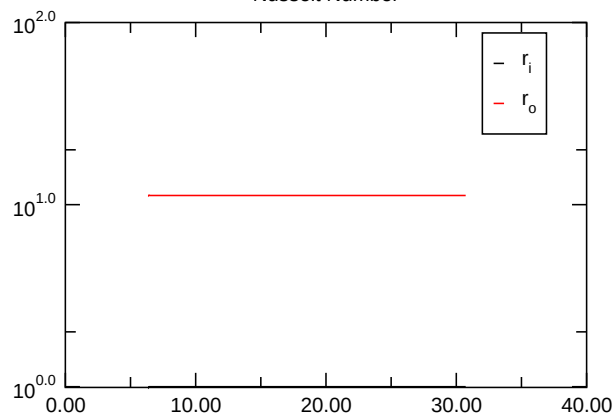
$E_{\text{kin,symm.}}$



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

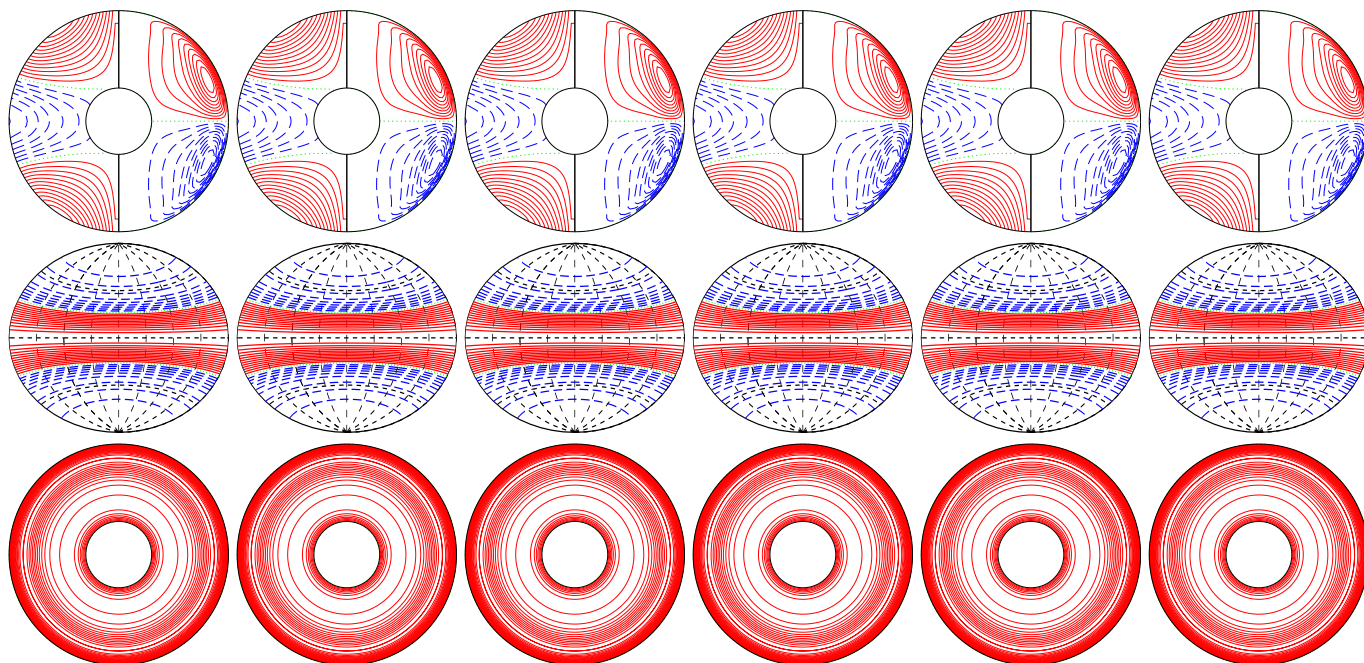


Nusselt Number

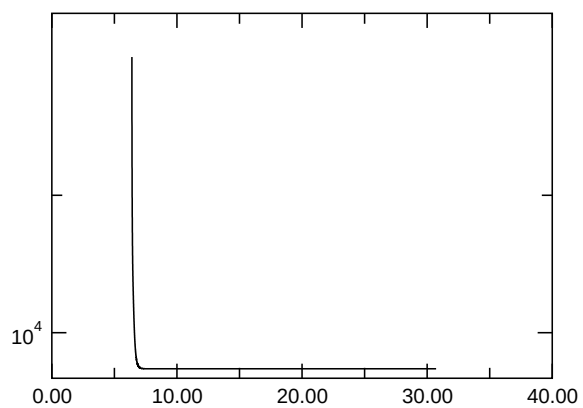


a.e03p005t06r-50000m1n2N2z20e4a.20
 times: 24.32001 25.60001 26.88001 28.16001 29.44001 30.72001

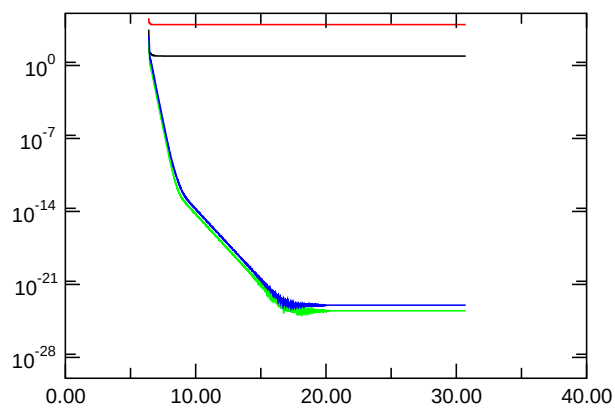
October 3, 2017



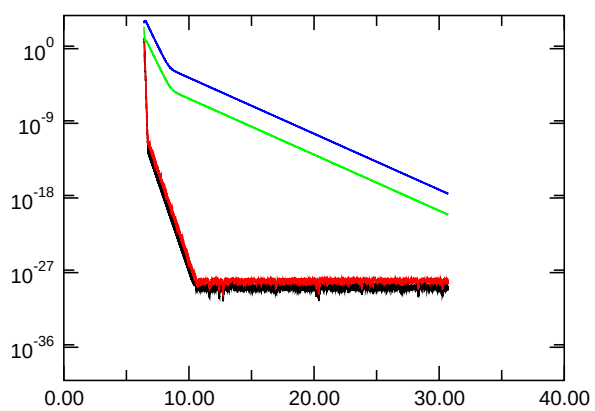
a.e03p005t06r-50000m1n2N2z20e4a
 E_{kin}



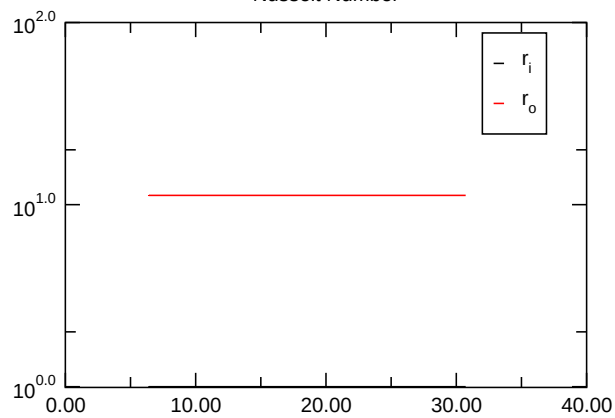
$E_{\text{kin,symm.}}$



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

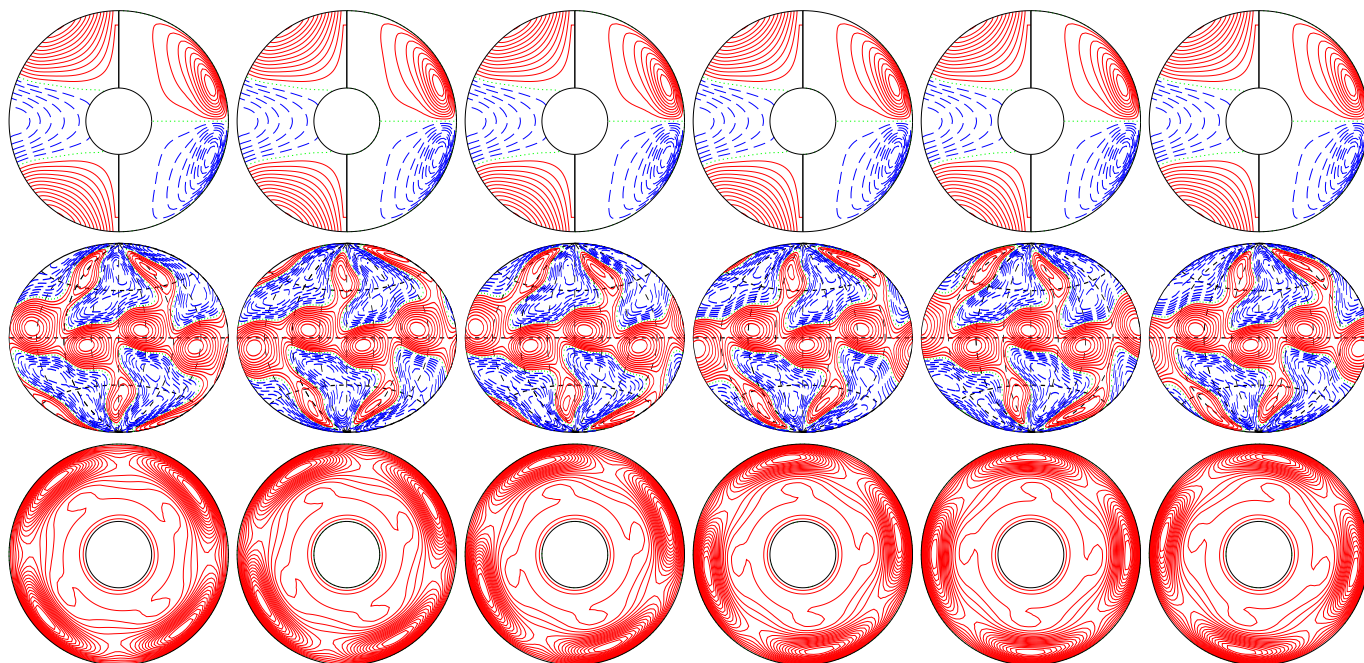


Nusselt Number

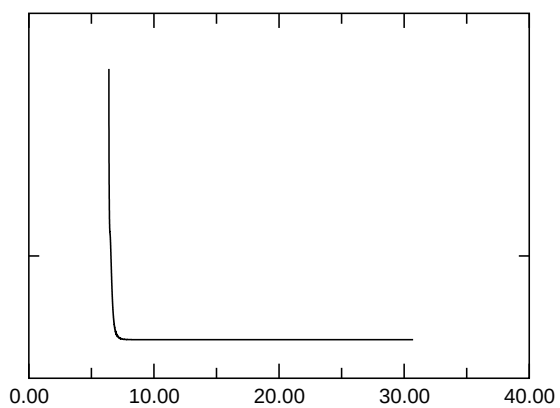


a.e03p005t06r-50000m1n2N2z25e4a.20
times: 24.32001 25.60001 26.88001 28.16001 29.44001 30.72001

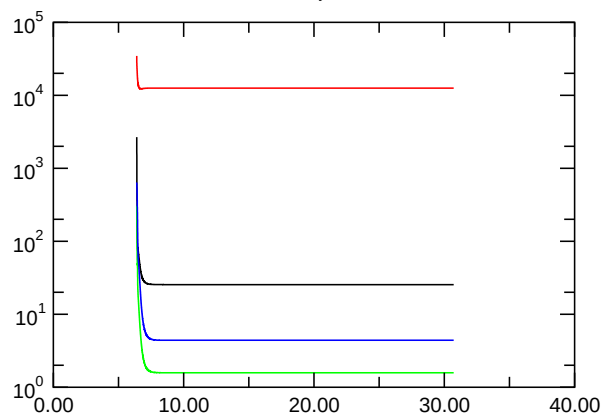
October 3, 2017



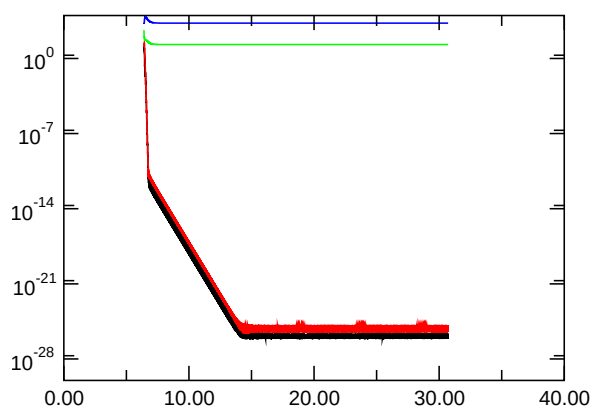
a.e03p005t06r-50000m1n2N2z25e4a
 E_{kin}



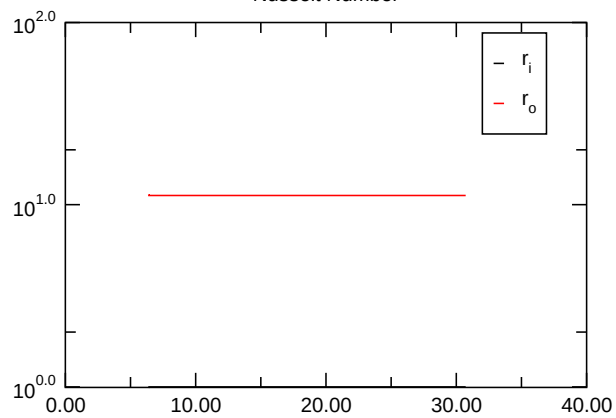
$E_{\text{kin,symm.}}$



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



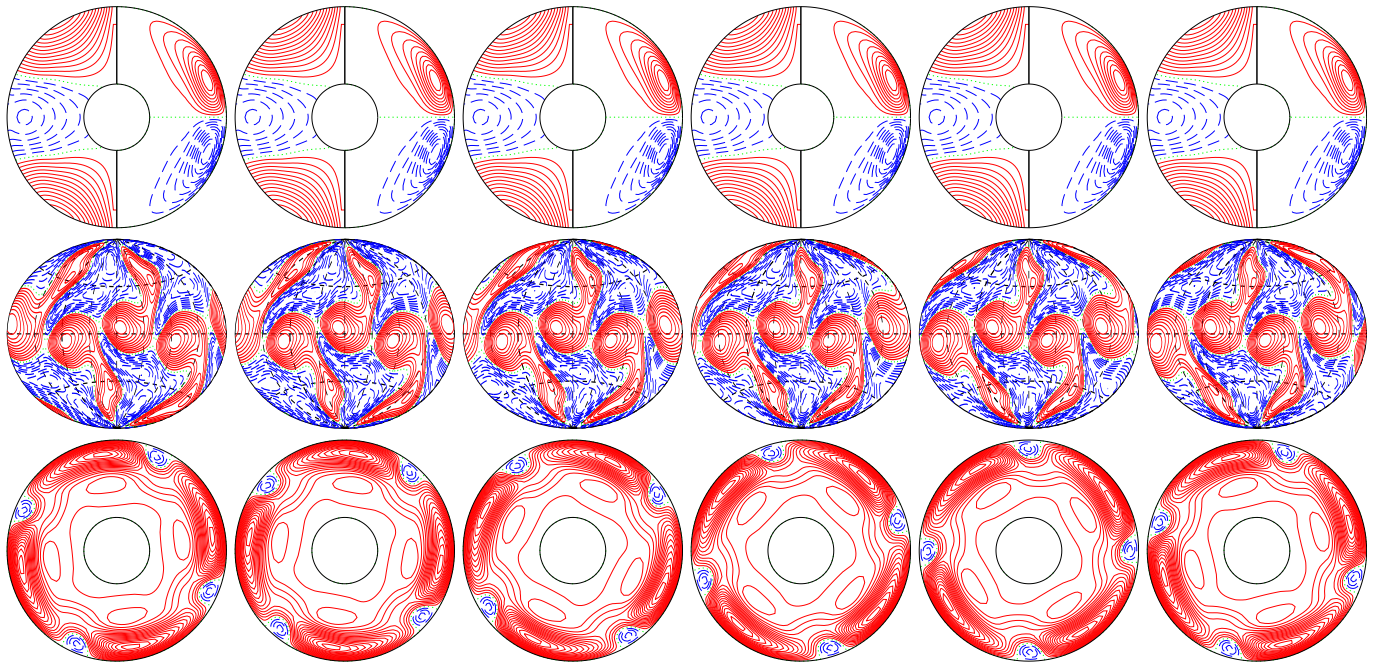
Nusselt Number



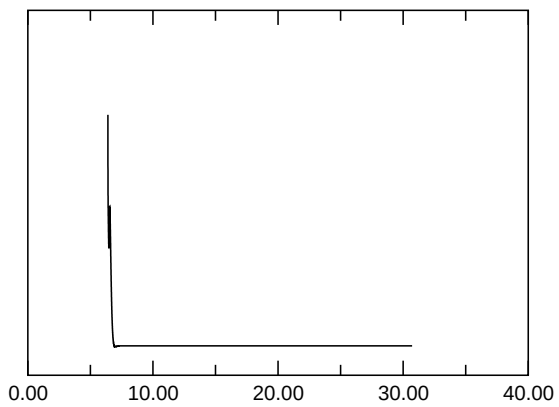
a.e03p005t06r-50000m1n2N2z30e4a.20

times: 24.32001 25.60001 26.88001 28.16001 29.44001 30.72001

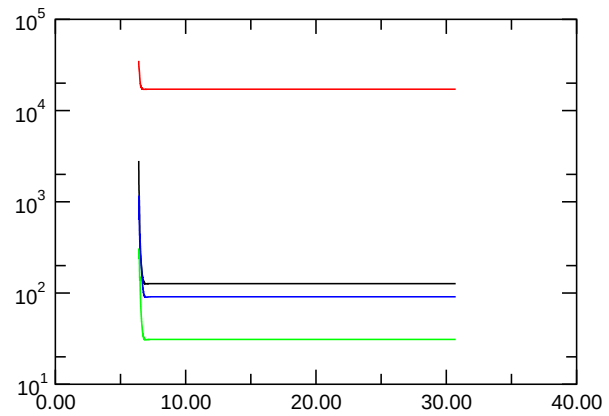
October 3, 2017



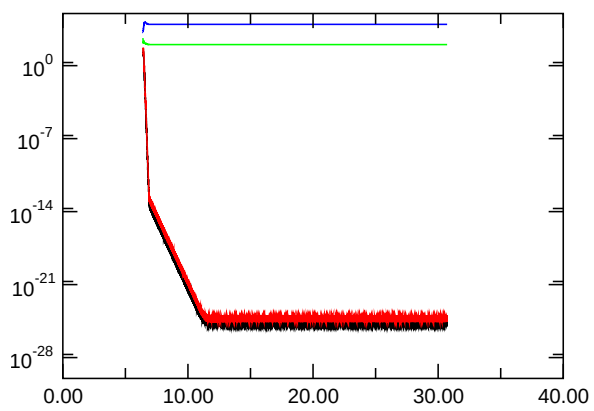
a.e03p005t06r-50000m1n2N2z30e4a
 E_{kin}



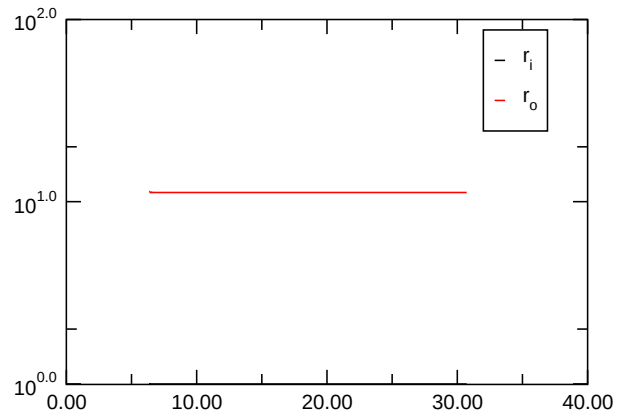
$E_{\text{kin,symm.}}$



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



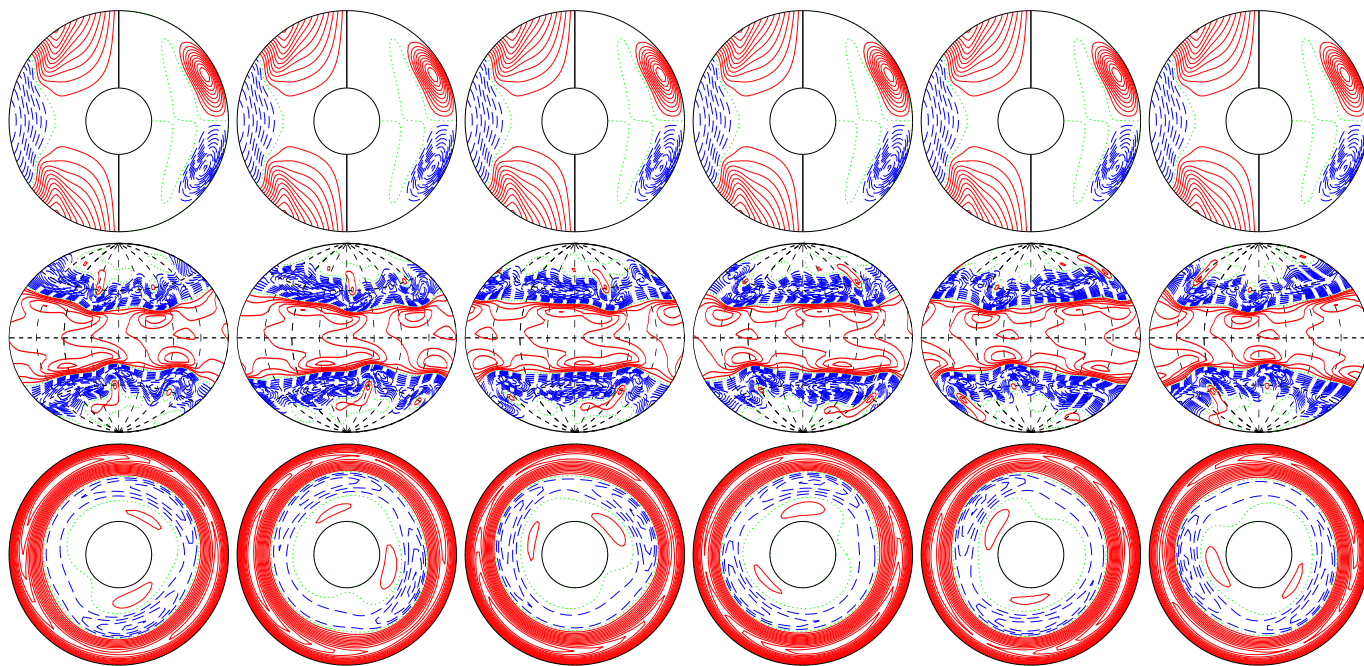
Nusselt Number



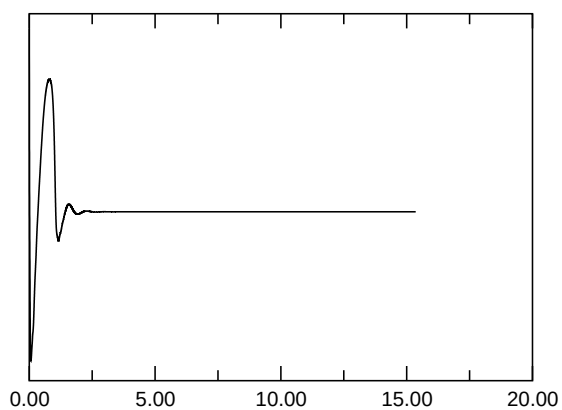
a.e03p005t06r-50000m1n2N2z31e4a.13

times: 8.960007 10.24001 11.52001 12.80001 14.08001 15.36001

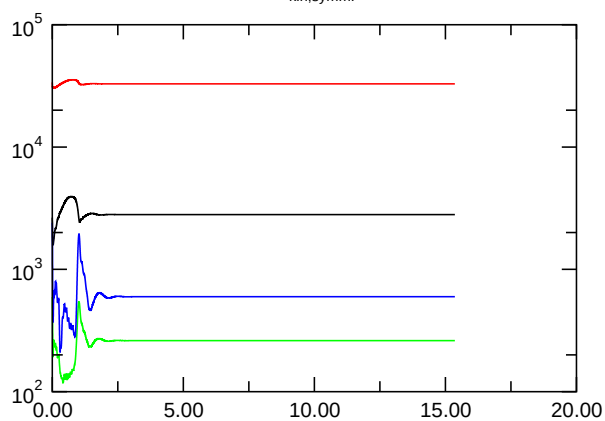
October 3, 2017



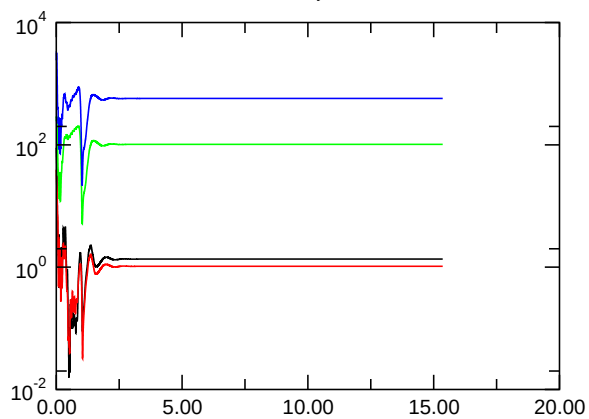
a.e03p005t06r-50000m1n2N2z31e4a
 E_{kin}



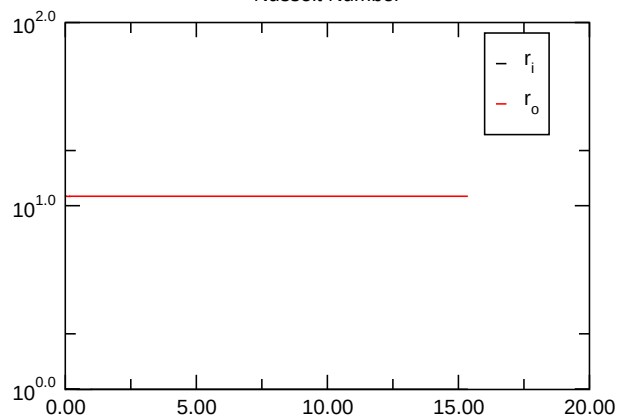
$E_{\text{kin,symm.}}$



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



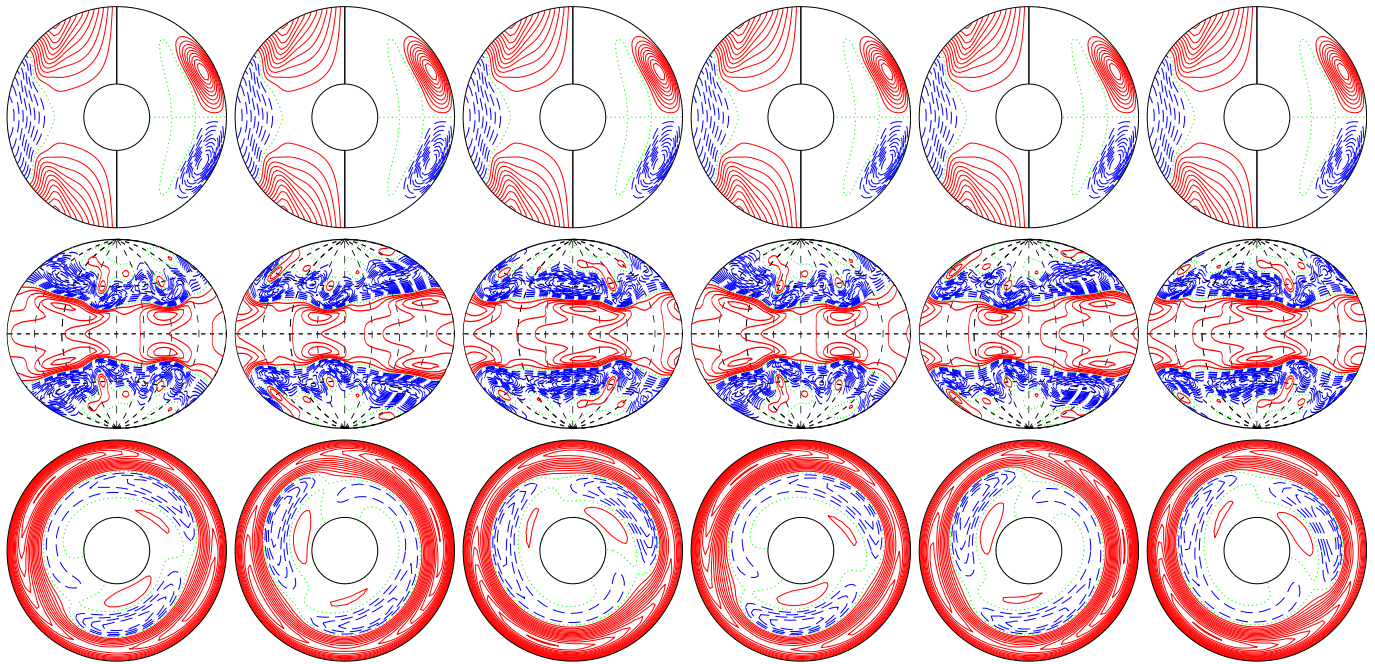
Nusselt Number



a.e03p005t06r-50000m1n2N2z32e4a.13

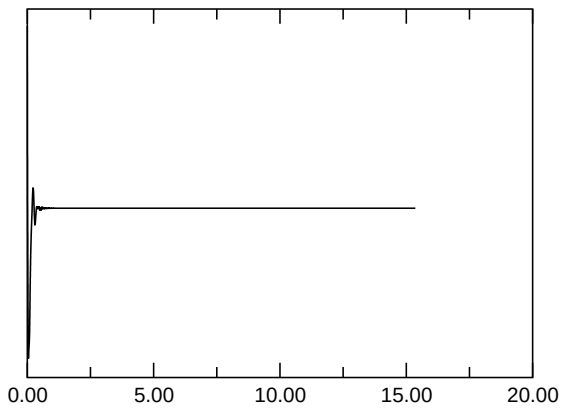
times: 8.960007 10.24001 11.52001 12.80001 14.08001 15.36001

October 3, 2017

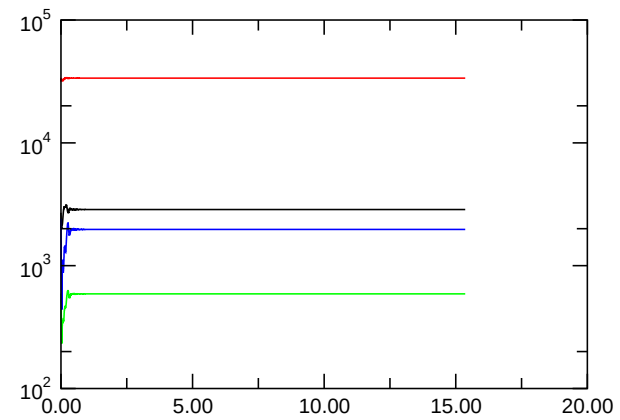


a.e03p005t06r-50000m1n2N2z32e4a

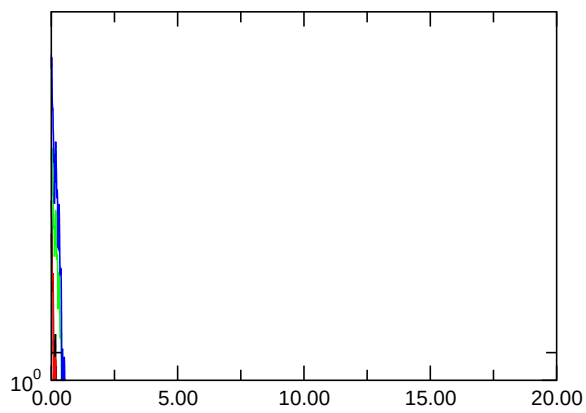
E_{kin}



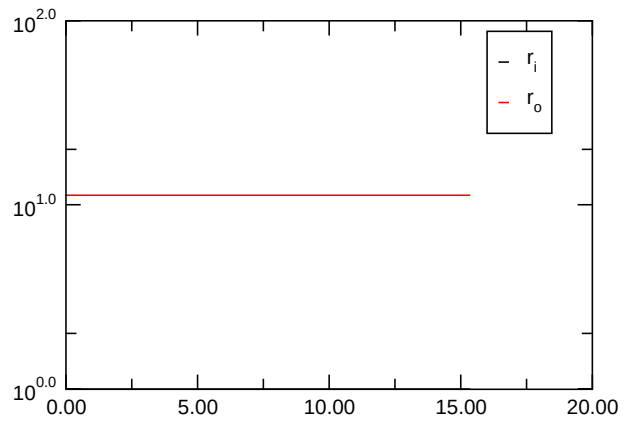
$E_{\text{kin,symm.}}$



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



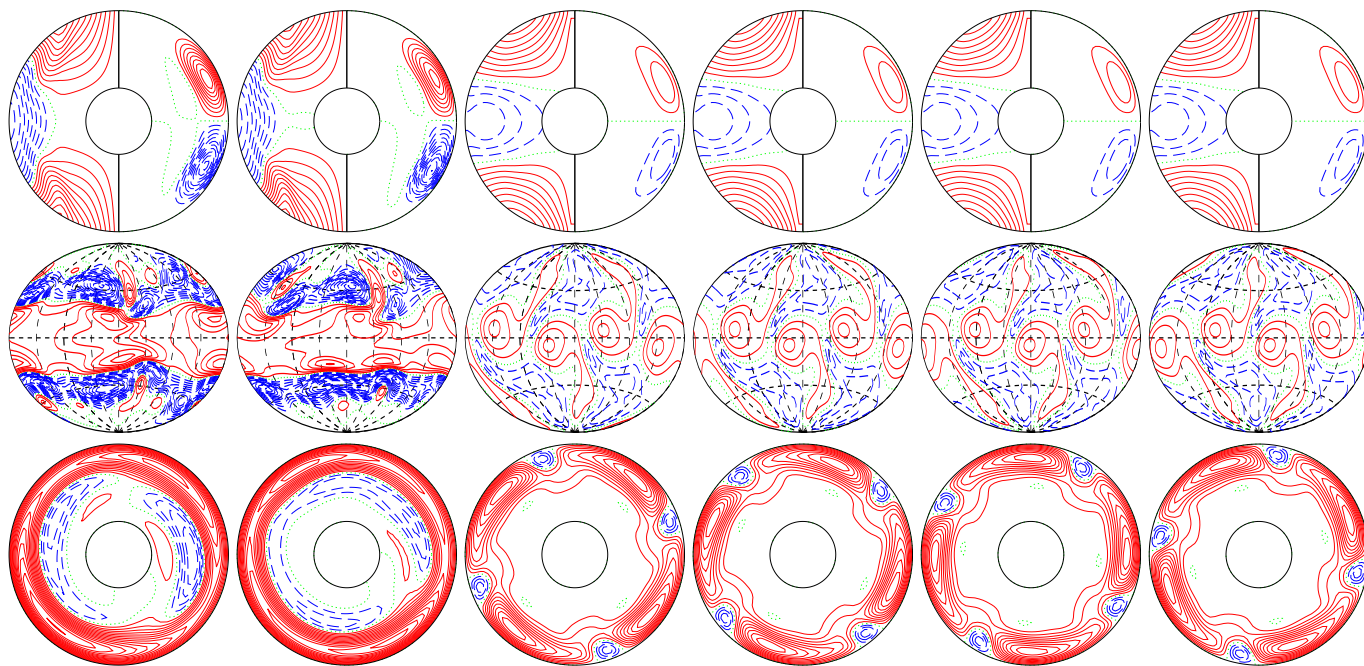
Nusselt Number



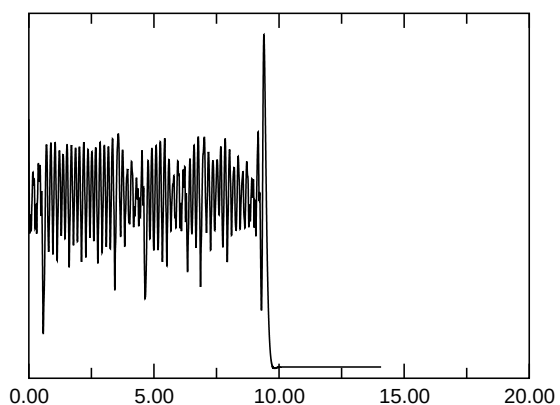
a.e03p005t06r-50000m1n2N2z33e4a.12

times: 7.680006 8.960007 10.24001 11.52001 12.80001 14.08001

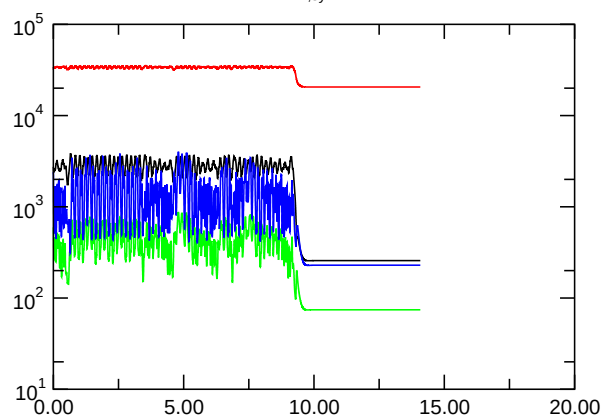
October 3, 2017



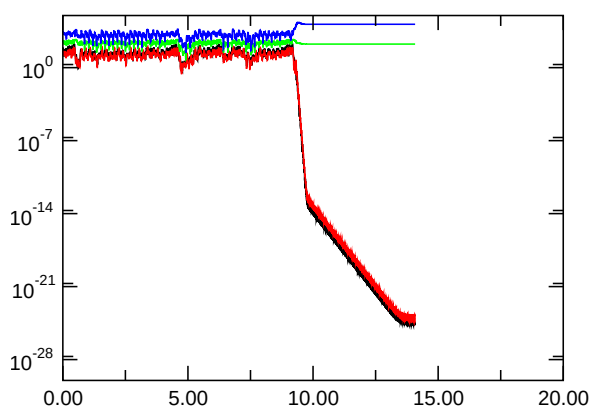
a.e03p005t06r-50000m1n2N2z33e4a
 E_{kin}



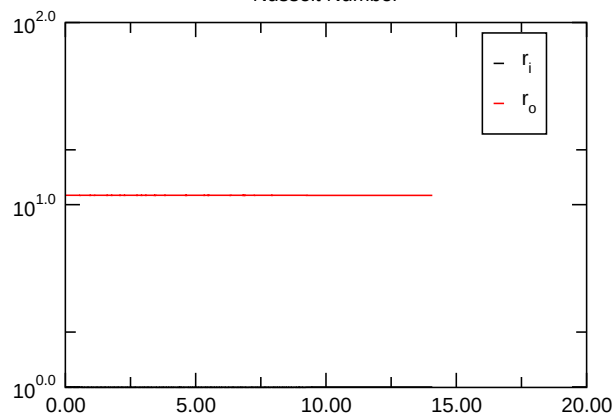
$E_{\text{kin,symm.}}$



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



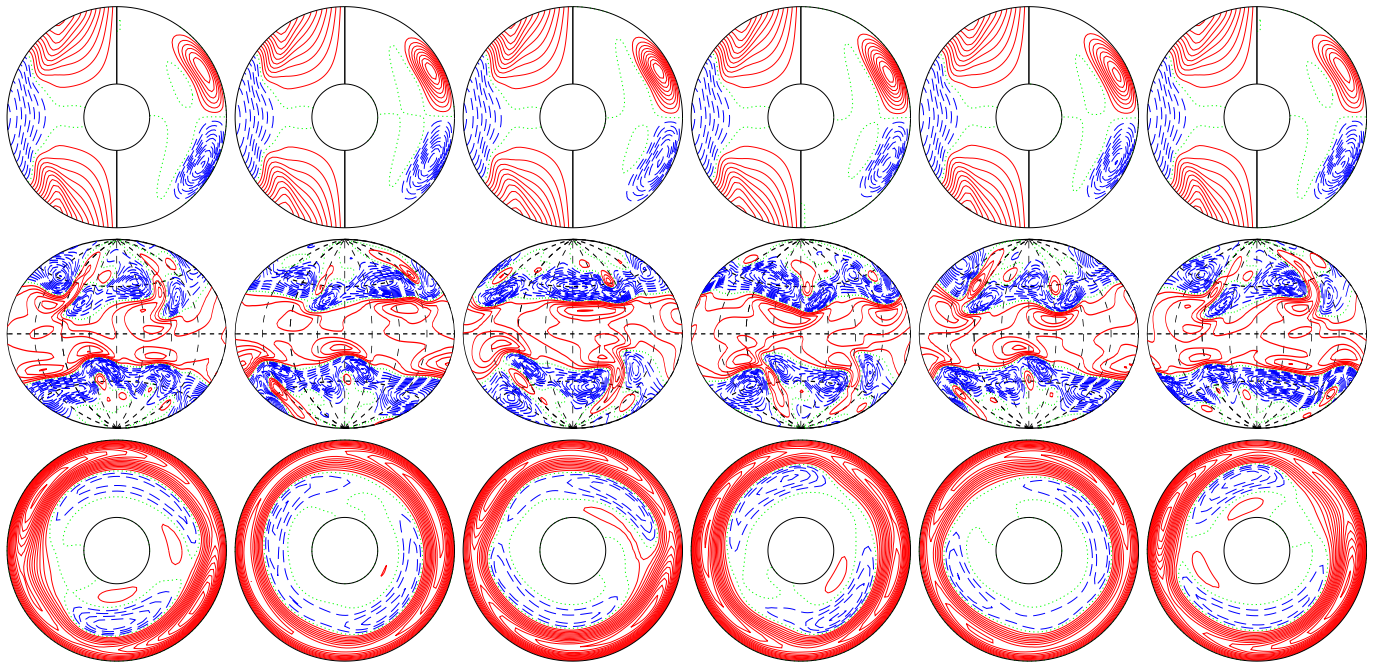
Nusselt Number



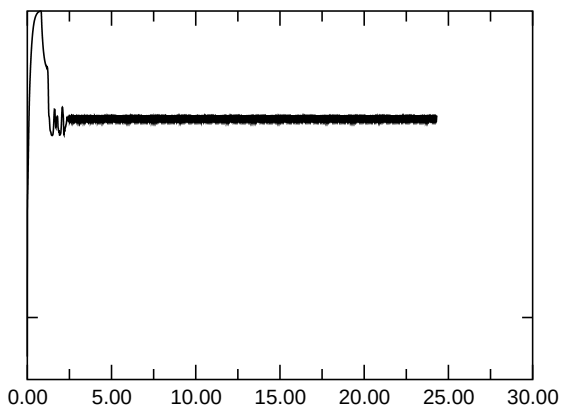
a.e03p005t06r-50000m1n2N2z34e4.20

times: 17.92001 19.20001 20.48001 21.76001 23.04001 24.32001

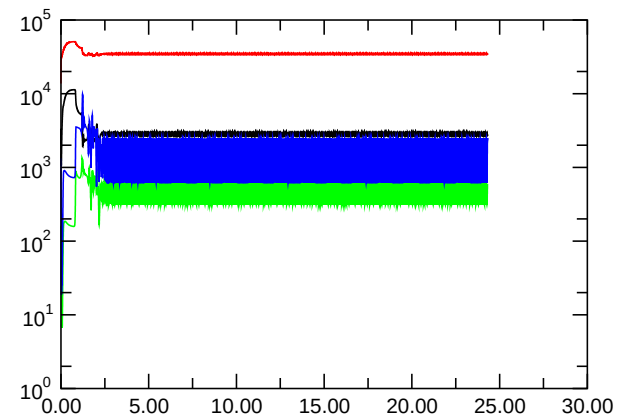
October 3, 2017



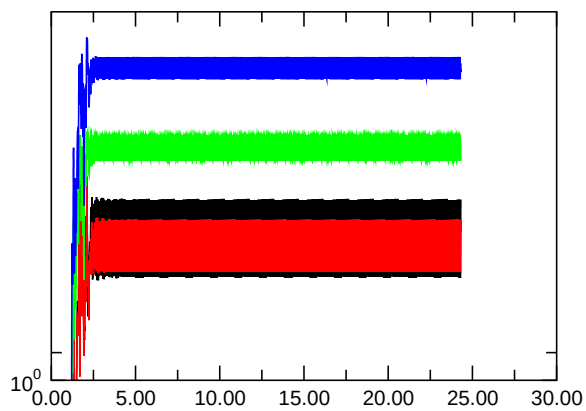
a.e03p005t06r-50000m1n2N2z34e4
 E_{kin}



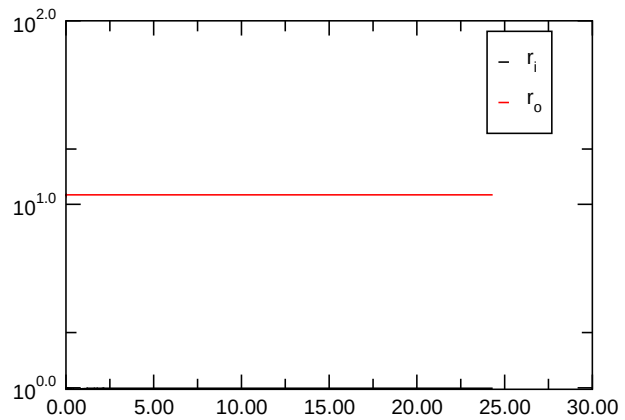
$E_{\text{kin,symm.}}$



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



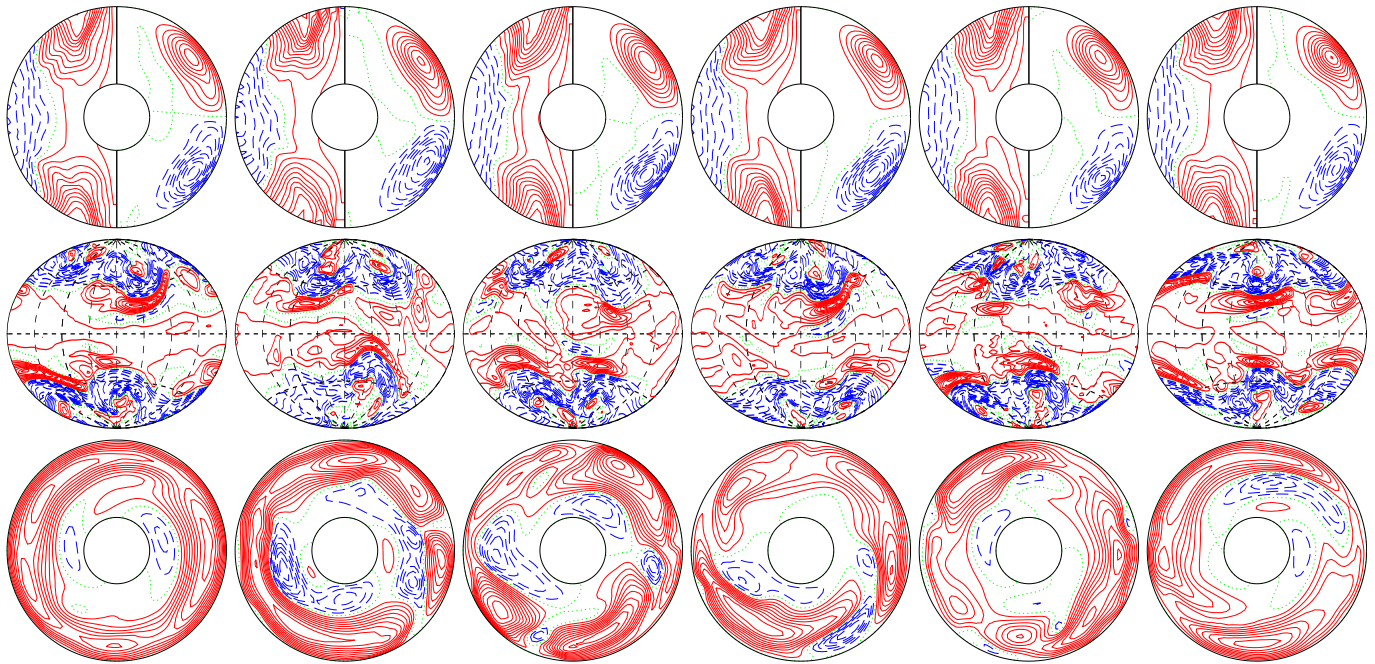
Nusselt Number



a.e03p003t06r-50000m1n2N2z9e5.7

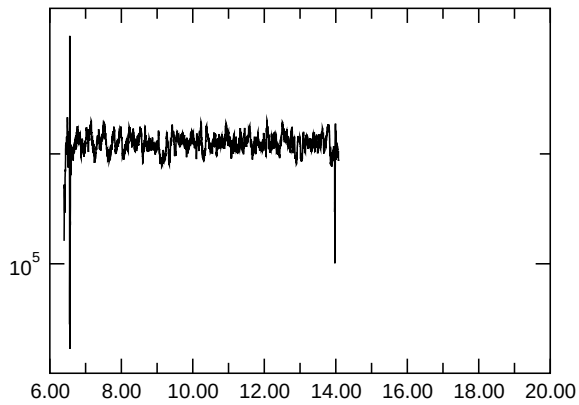
times: 7.680006 8.960007 10.24001 11.52001 12.80001 14.08001

October 3, 2017

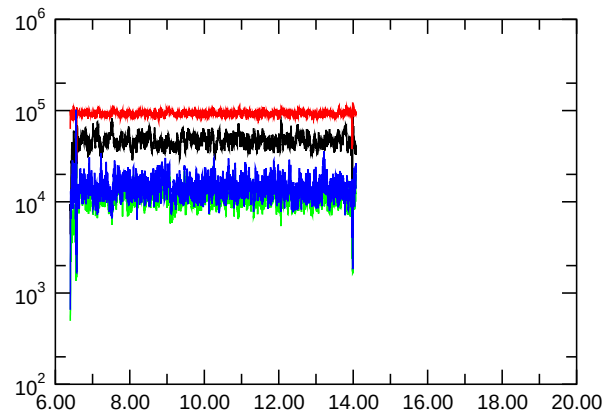


a.e03p003t06r-50000m1n2N2z9e5

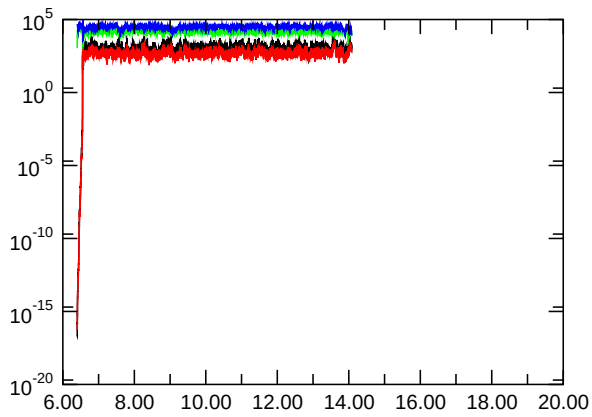
E_{kin}



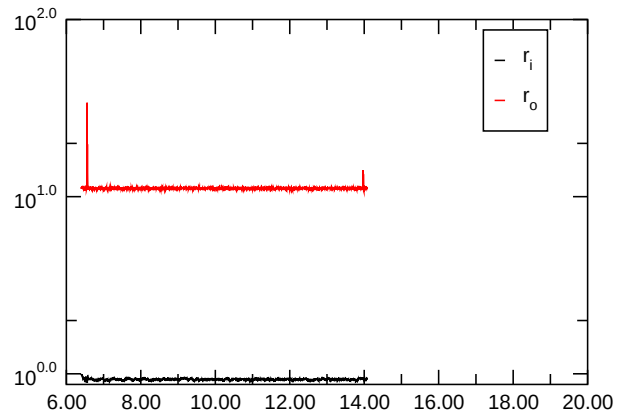
$E_{\text{kin,symm.}}$



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



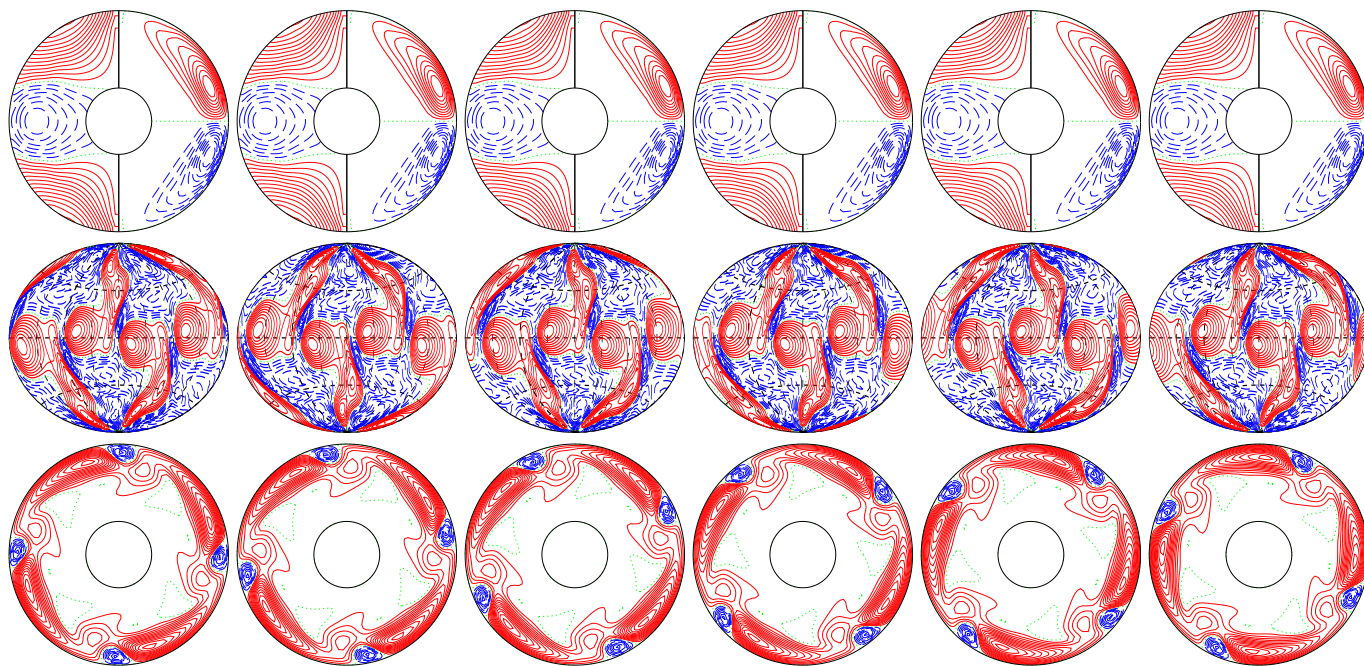
Nusselt Number



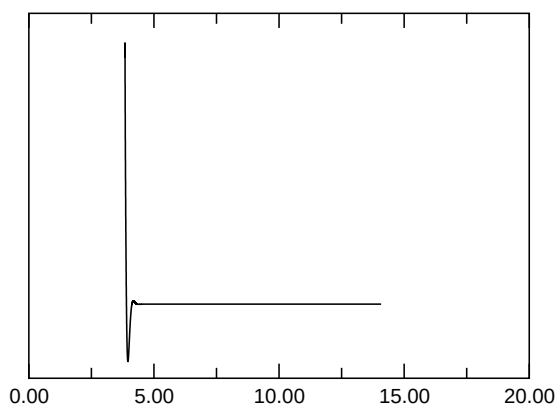
a.e03p003t1r-50000m1n2N2z9e5.9

times: 7.680006 8.960007 10.24001 11.52001 12.80001 14.08001

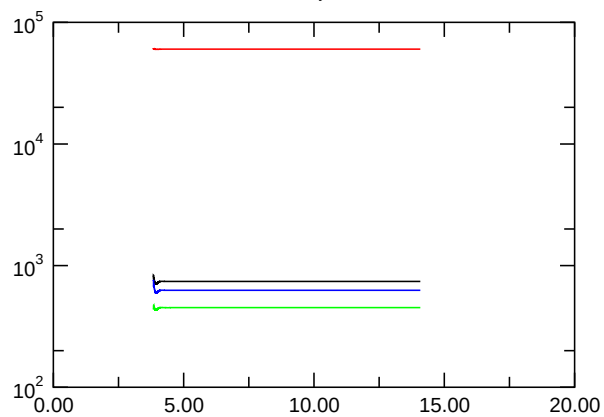
October 3, 2017



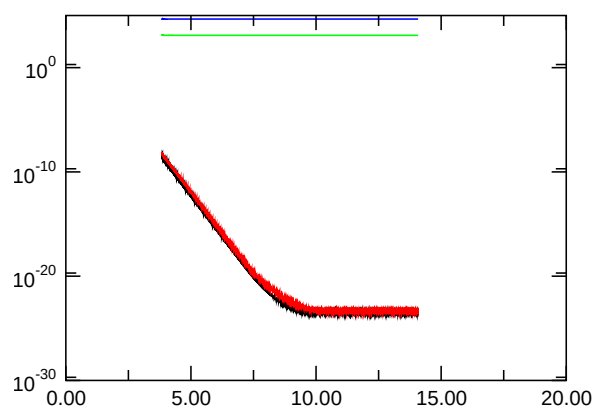
a.e03p003t1r-50000m1n2N2z9e5
 E_{kin}



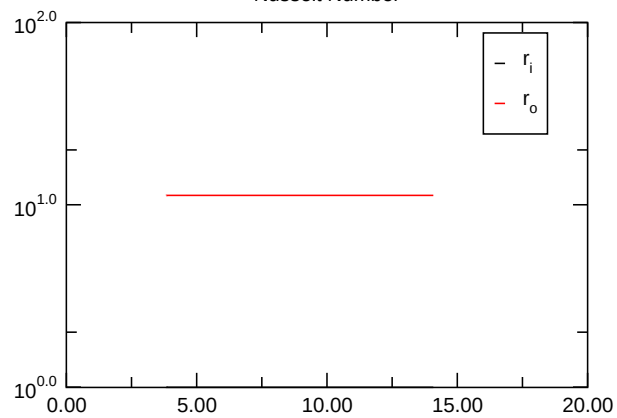
$E_{\text{kin,symm.}}$



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



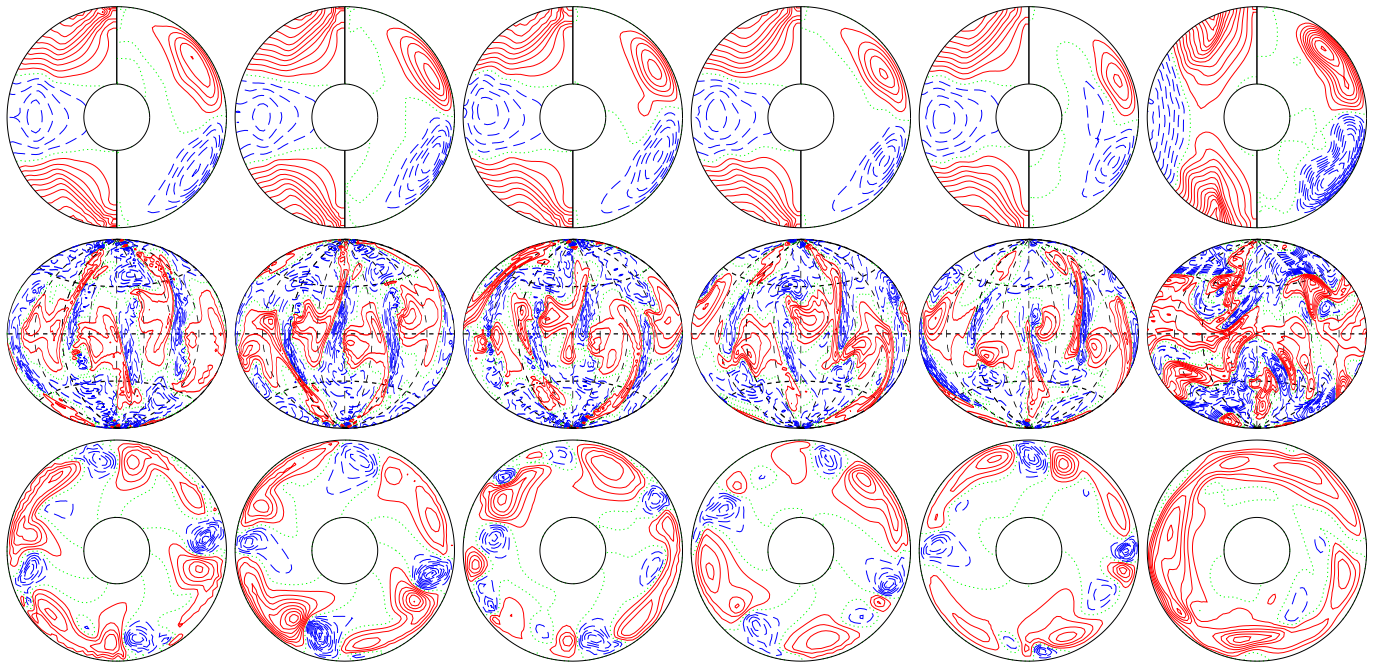
Nusselt Number



a.e03p003t1r-50000m1n2N2z13e5.9

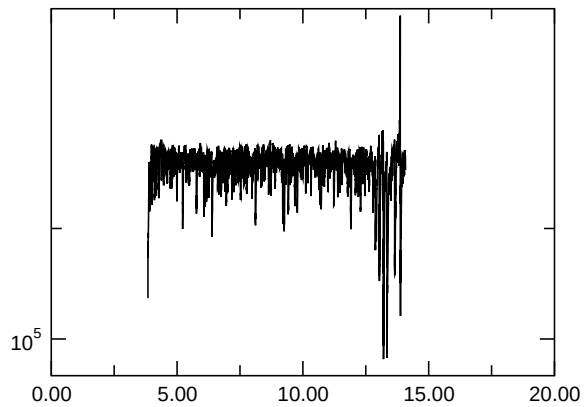
times: 7.680006 8.960007 10.24001 11.52001 12.80001 14.08001

October 3, 2017

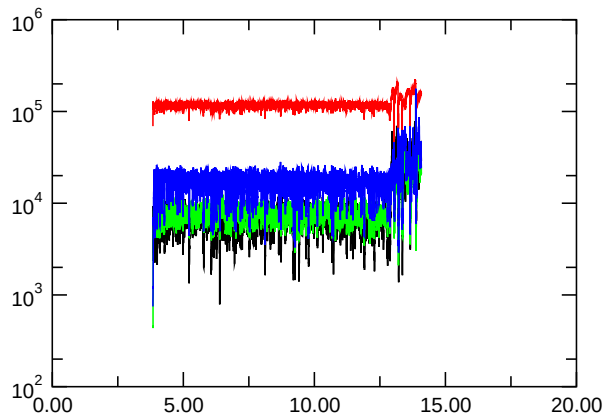


a.e03p003t1r-50000m1n2N2z13e5

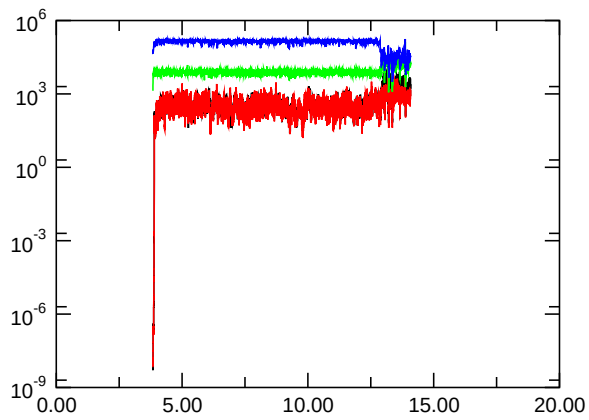
E_{kin}



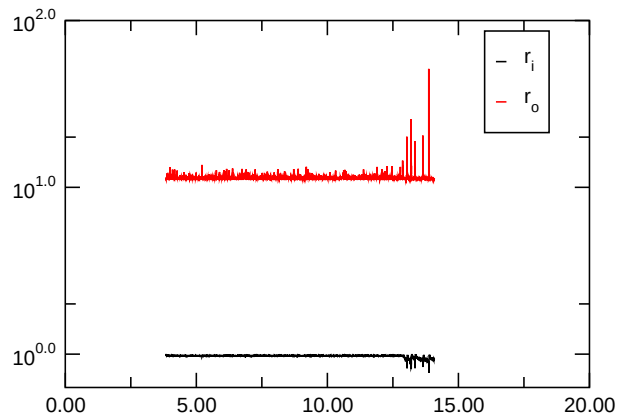
$E_{\text{kin,symm.}}$



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



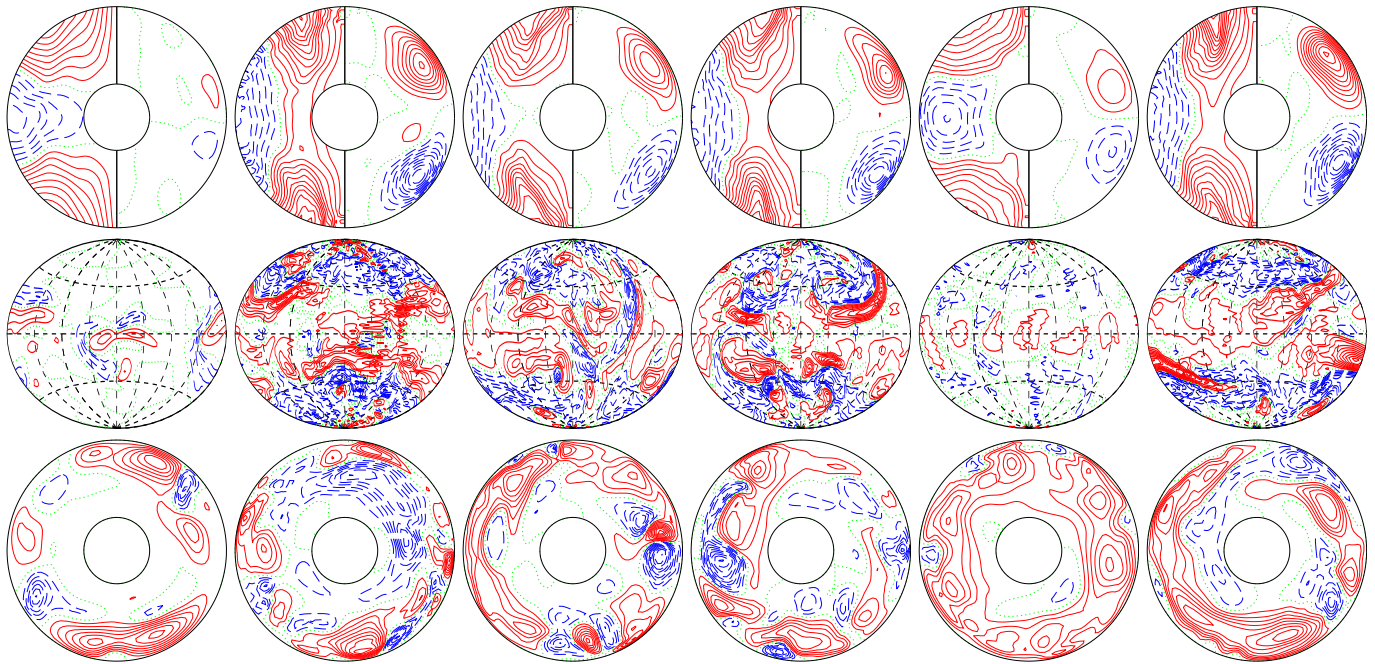
Nusselt Number



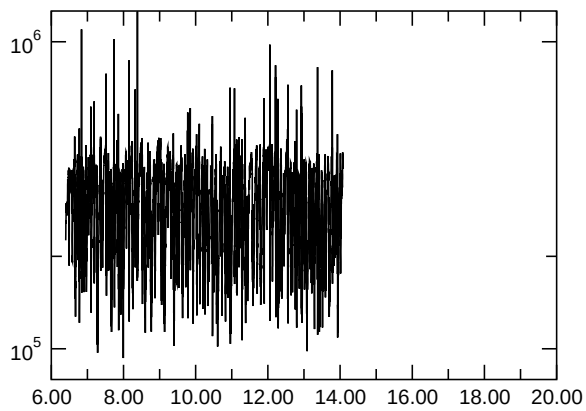
a.e03p003t1r-50000m1n2N2z15e5.7

times: 7.680006 8.960007 10.24001 11.52001 12.80001 14.08001

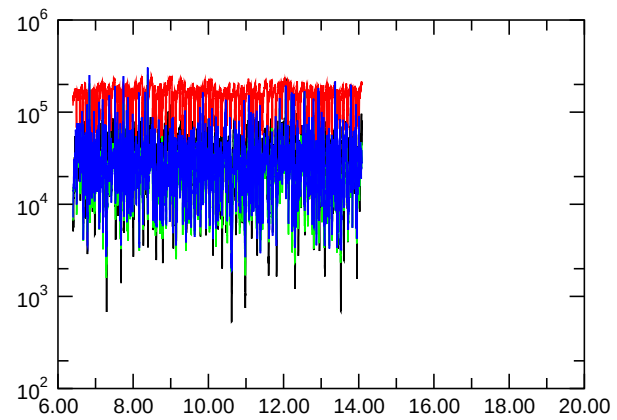
October 3, 2017



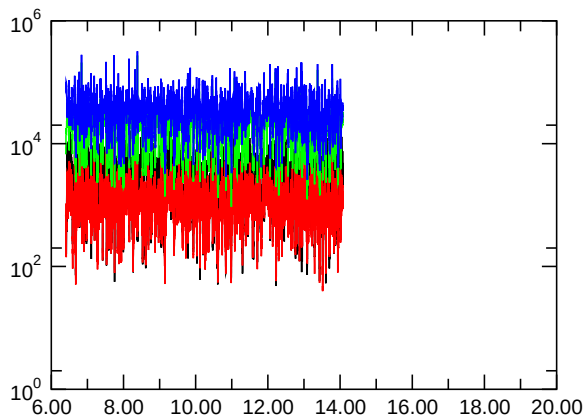
a.e03p003t1r-50000m1n2N2z15e5
 E_{kin}



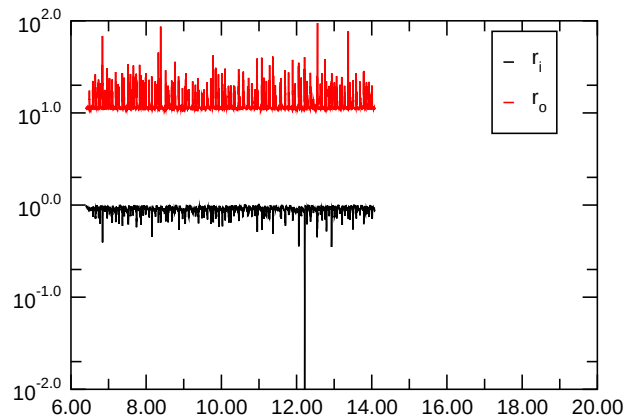
$E_{\text{kin,symm.}}$



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



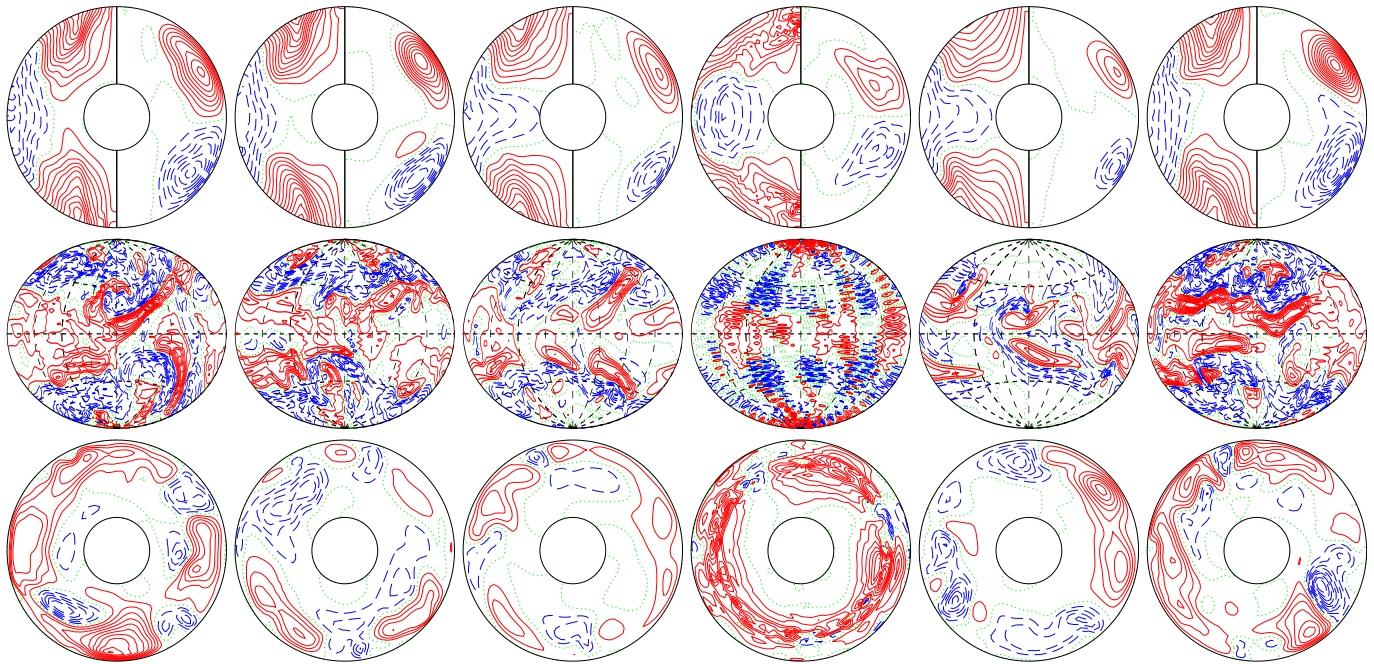
Nusselt Number



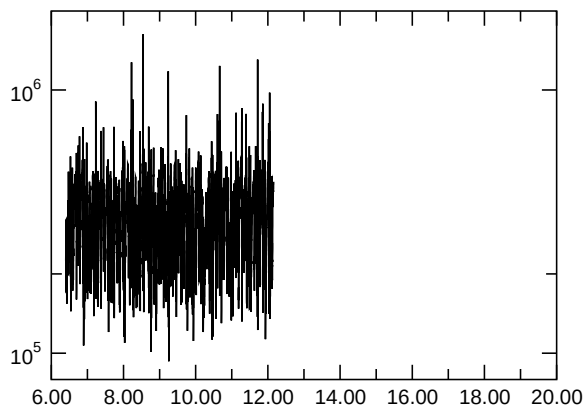
a.e03p003t1r-50000m1n2N2z16e5.7

times: 7.360006 8.320007 9.280008 10.24001 11.20001 12.16001

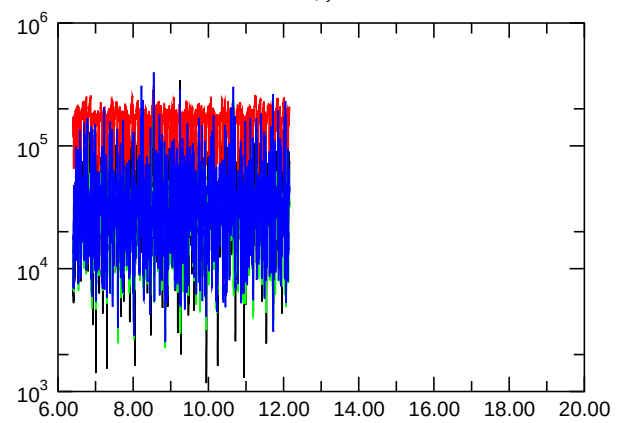
October 3, 2017



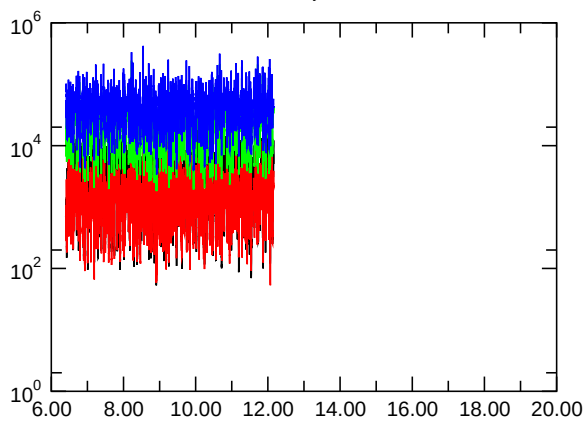
a.e03p003t1r-50000m1n2N2z16e5
 E_{kin}



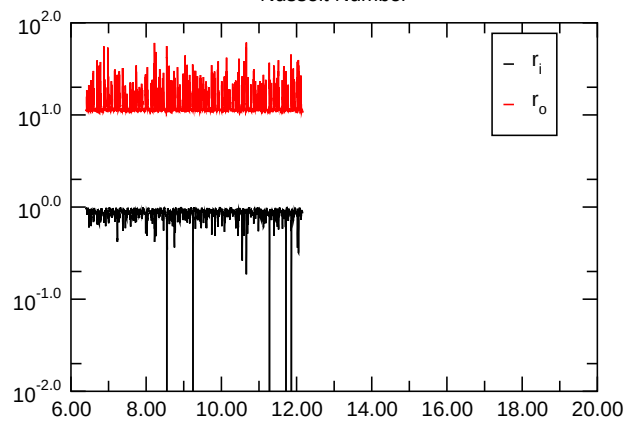
$E_{\text{kin,symm.}}$



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

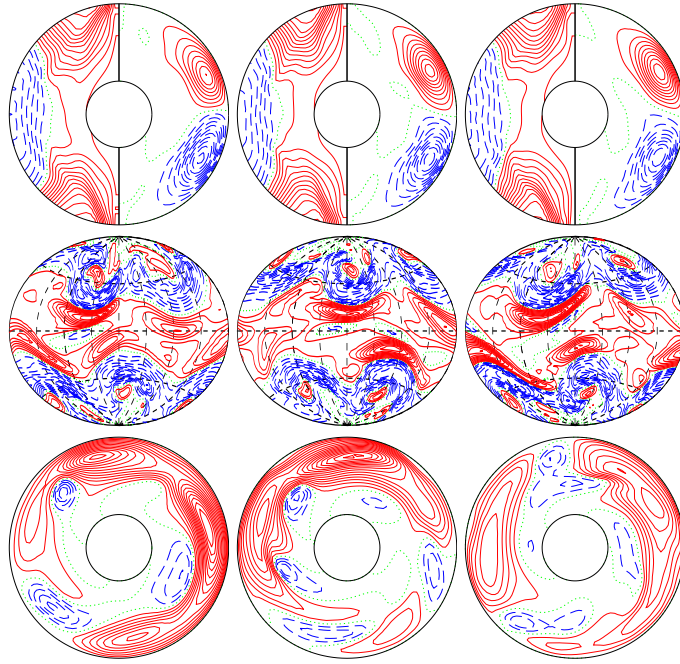


Nusselt Number

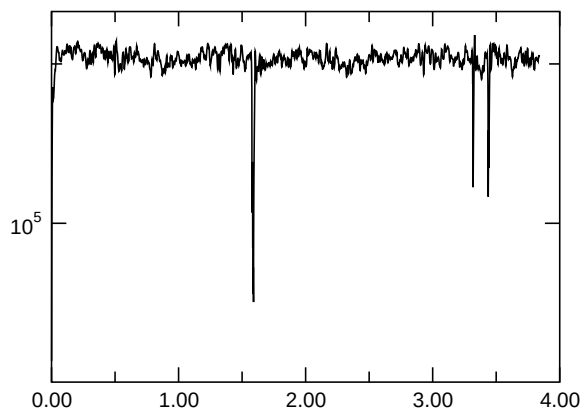


a.e03p002t06r-50000m1n2N2z9e5.4
times: 1.280001 2.560002 3.840003

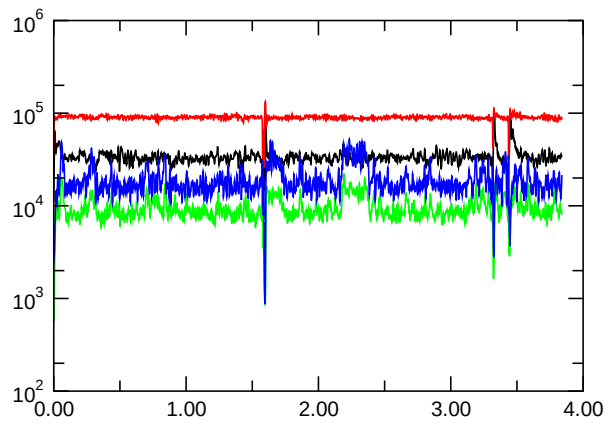
October 3, 2017



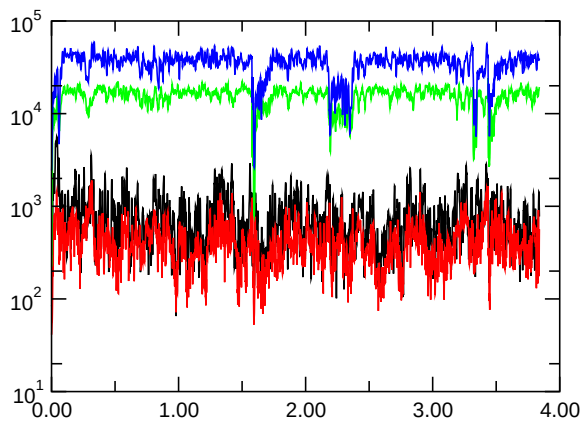
a.e03p002t06r-50000m1n2N2z9e5
 E_{kin}



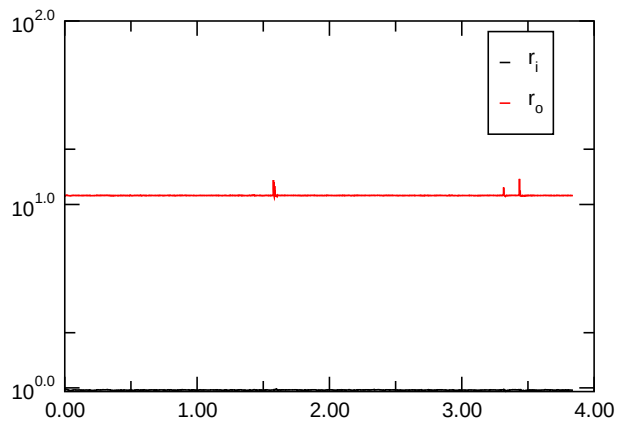
$E_{\text{kin,symm.}}$



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

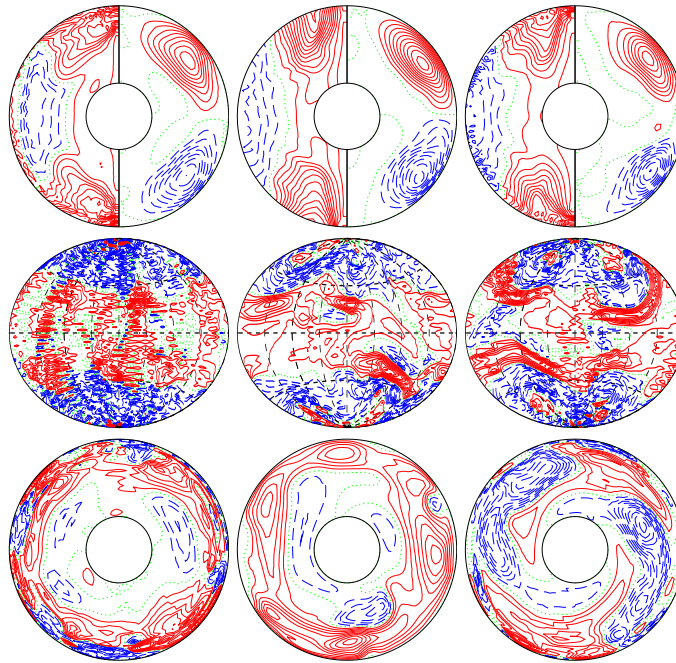


Nusselt Number

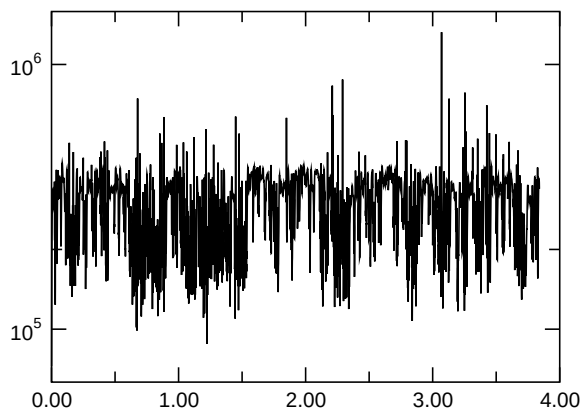


a.e03p002t06r-50000m1n2N2z13e5.4
times: 1.280001 2.560002 3.840003

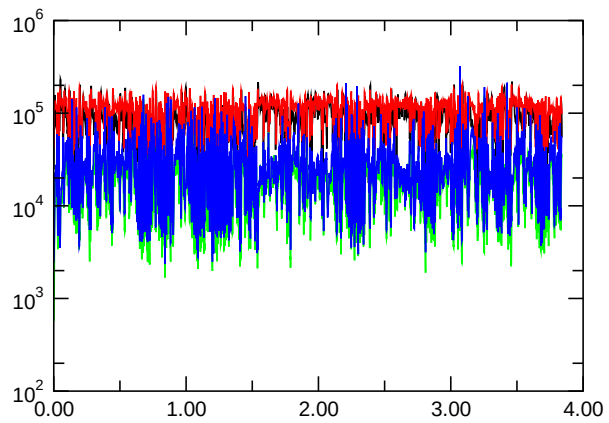
October 3, 2017



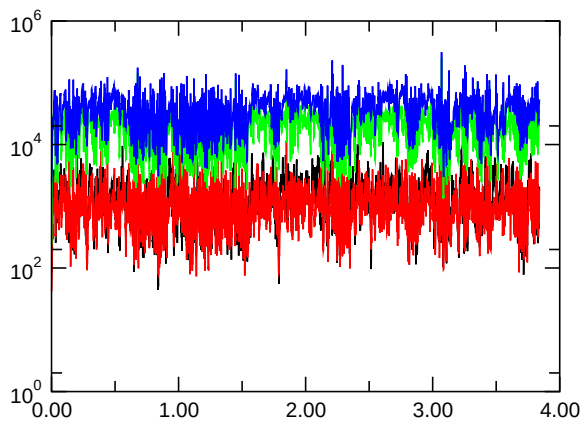
a.e03p002t06r-50000m1n2N2z13e5
 E_{kin}



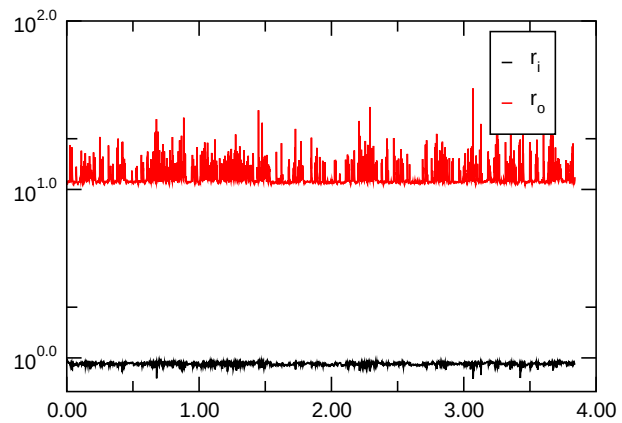
$E_{\text{kin, symm.}}$



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



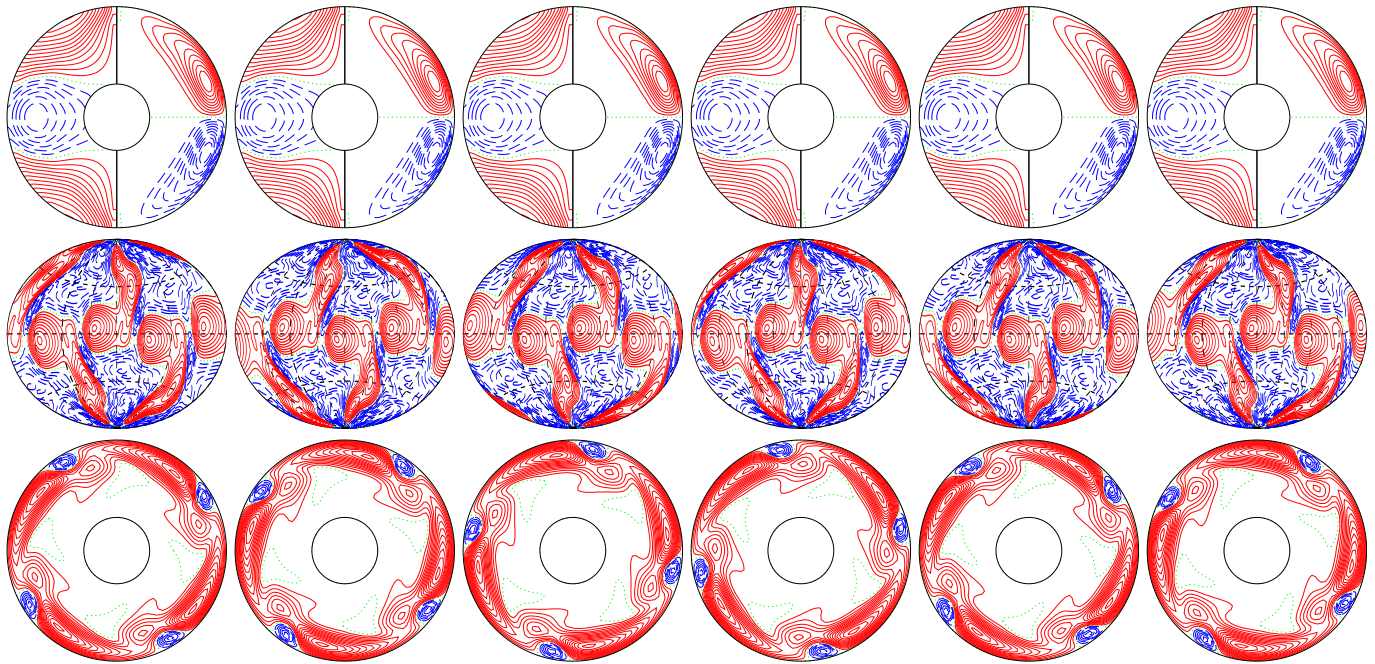
Nusselt Number



a.e03p002t1r-50000m1n2N2z9e5.12

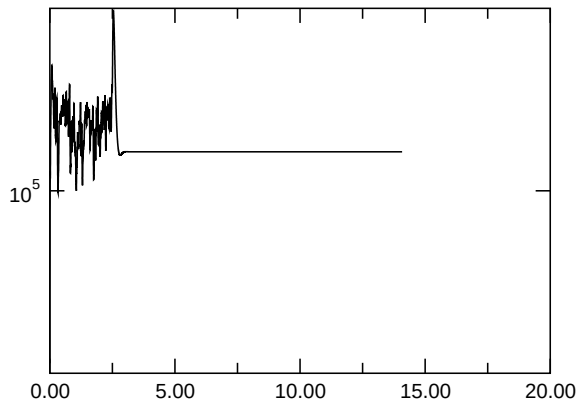
times: 7.680006 8.960007 10.24001 11.52001 12.80001 14.08001

October 3, 2017

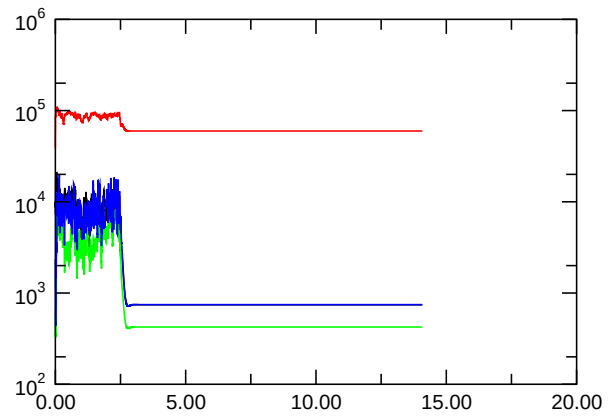


a.e03p002t1r-50000m1n2N2z9e5

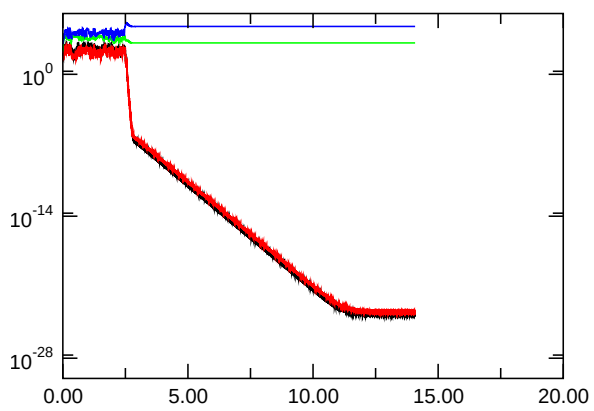
E_{kin}



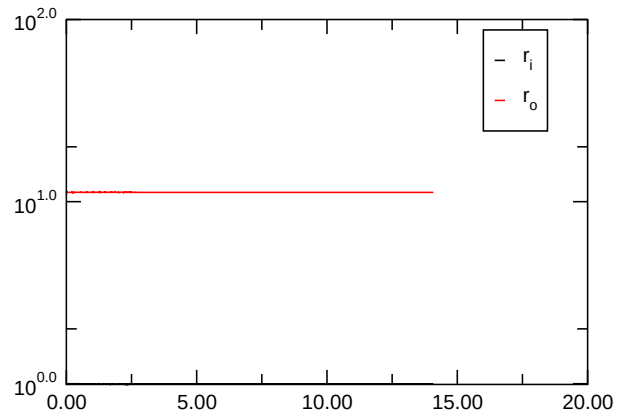
$E_{\text{kin,symm.}}$



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



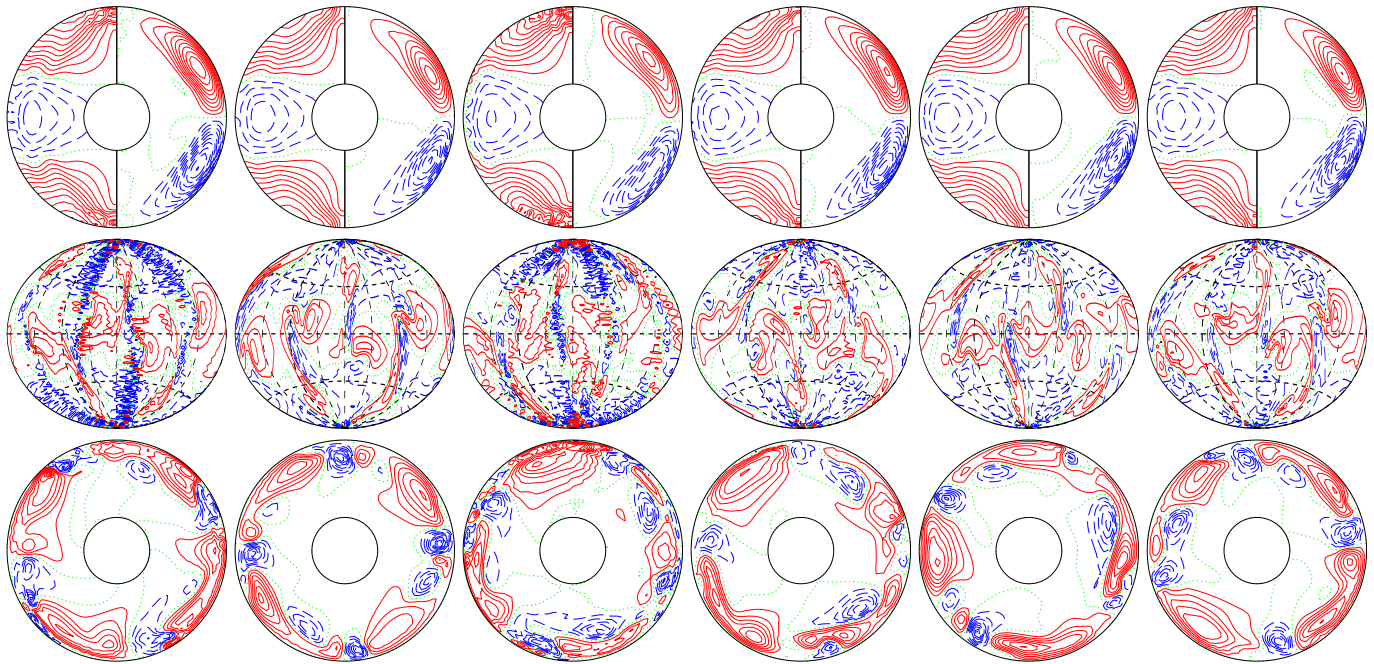
Nusselt Number



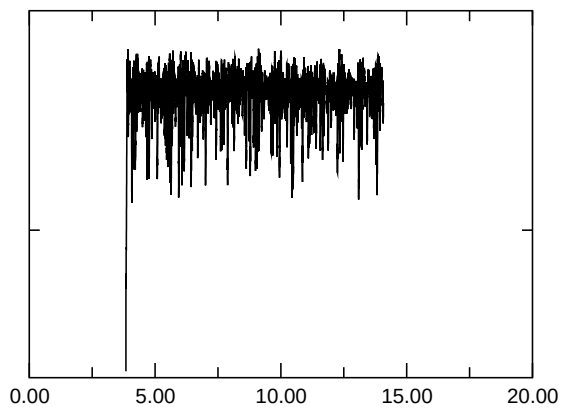
a.e03p002t1r-50000m1n2N2z13e5b.9

times: 7.680006 8.960007 10.24001 11.52001 12.80001 14.08001

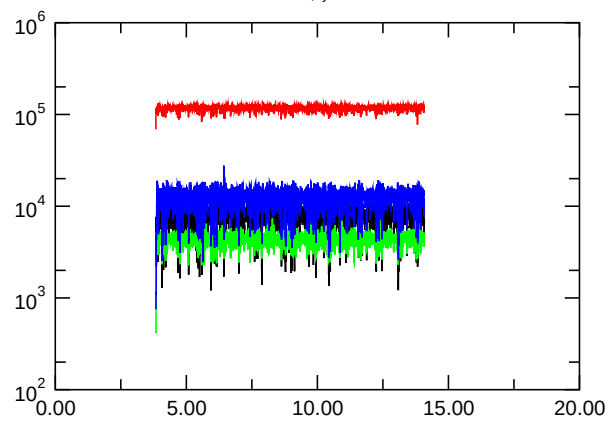
October 3, 2017



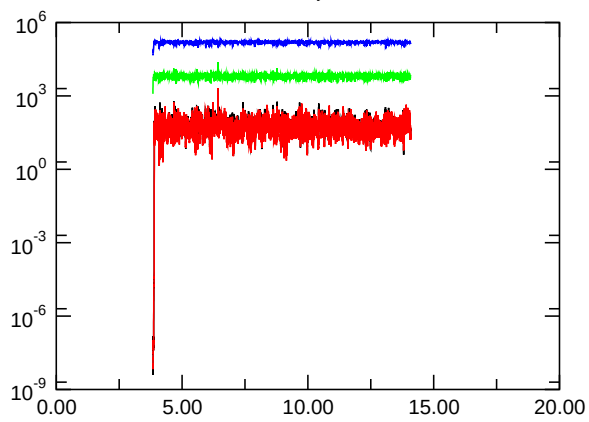
a.e03p002t1r-50000m1n2N2z13e5b
 E_{kin}



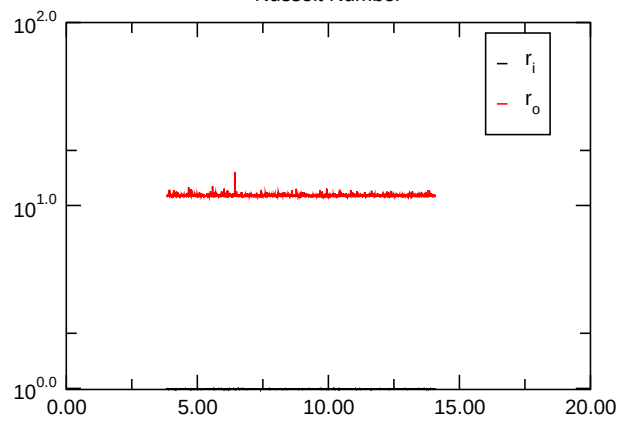
$E_{\text{kin,symm.}}$



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



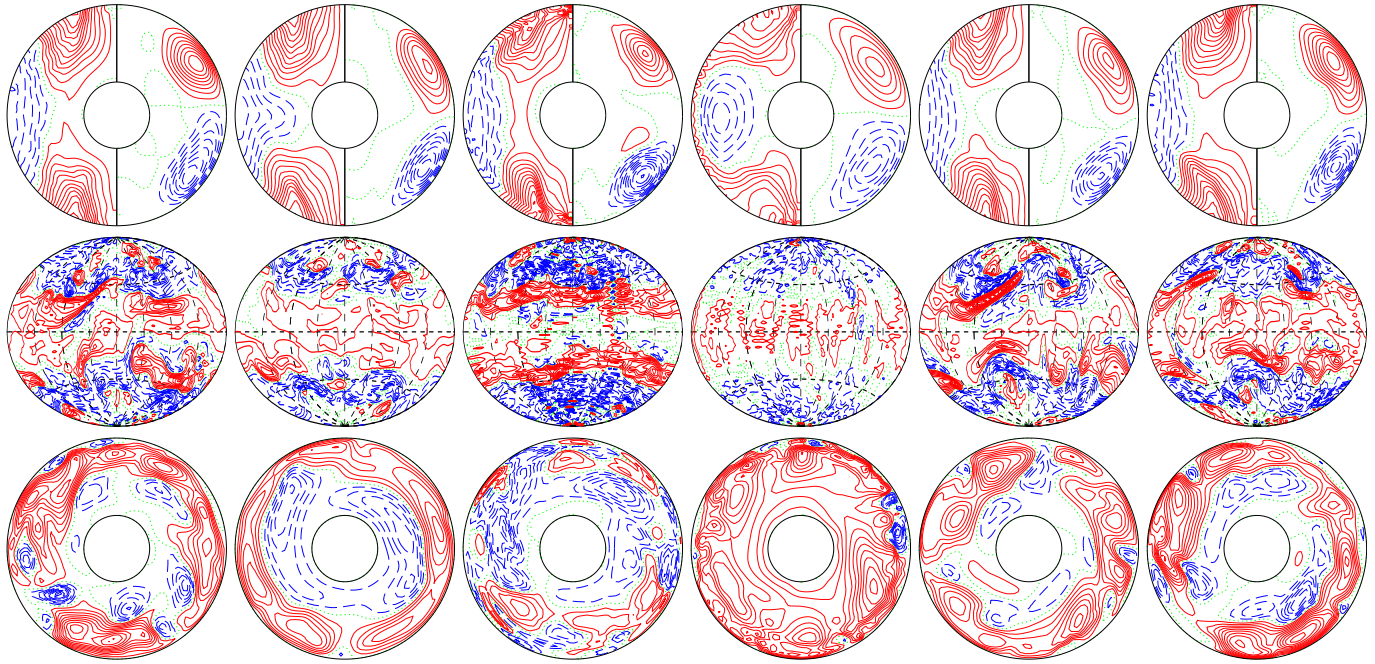
Nusselt Number



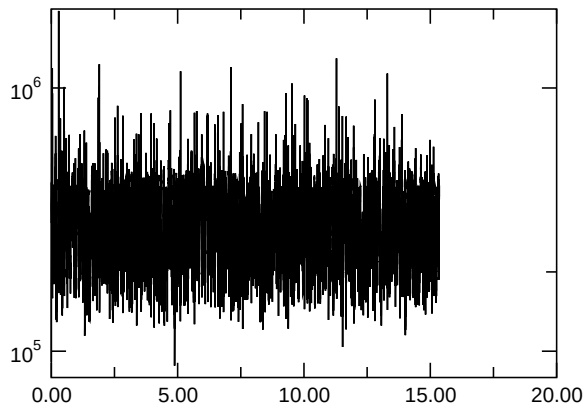
a.e03p002t1r-50000m1n2N2z17e5.13

times: 8.960007 10.24001 11.52001 12.80001 14.08001 15.36001

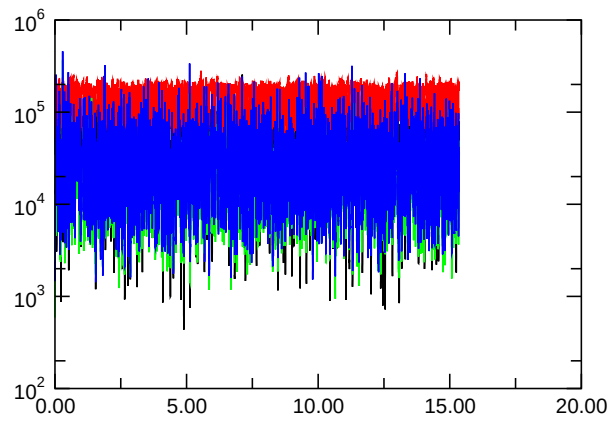
October 3, 2017



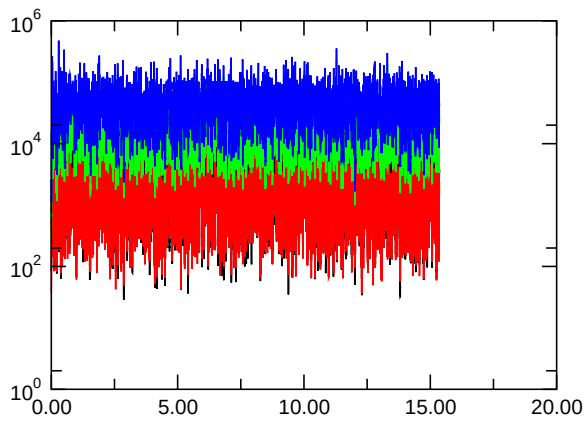
a.e03p002t1r-50000m1n2N2z17e5
 E_{kin}



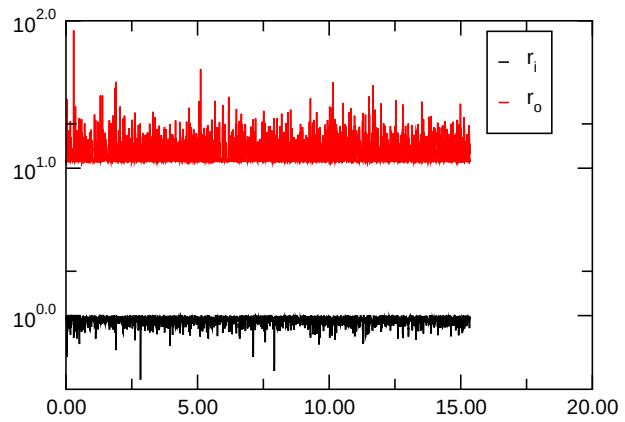
$E_{\text{kin,symm.}}$



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



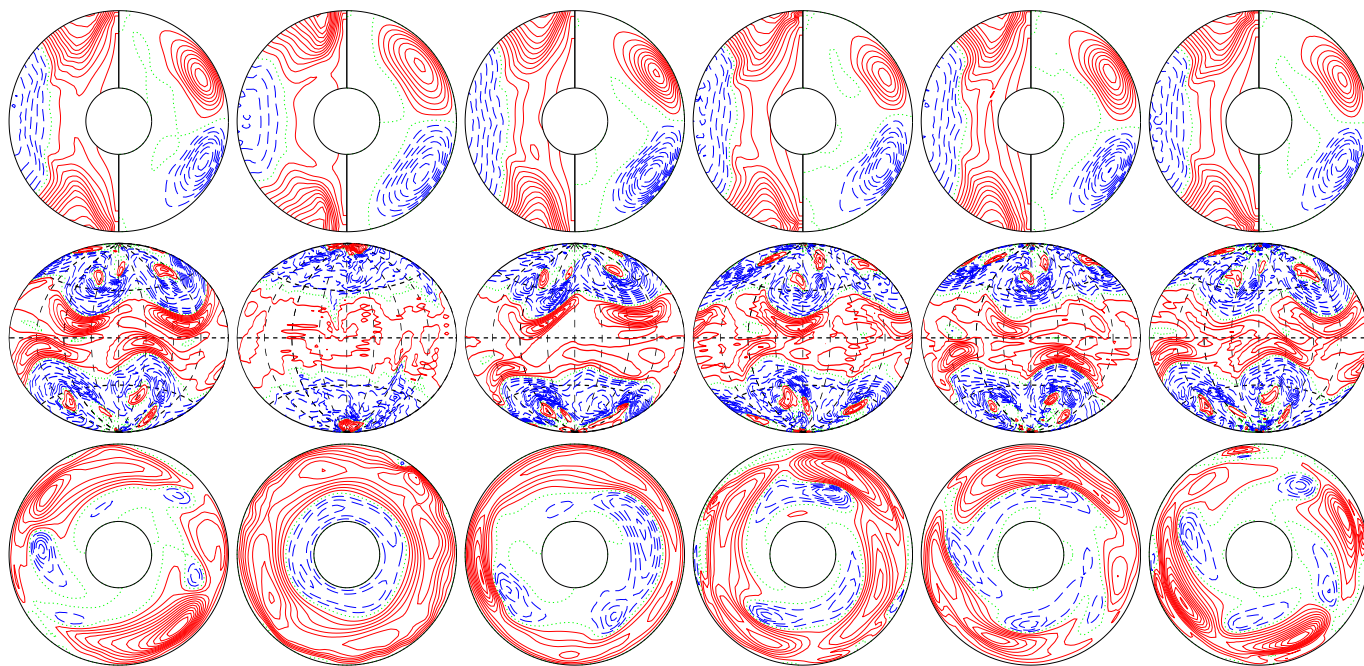
Nusselt Number



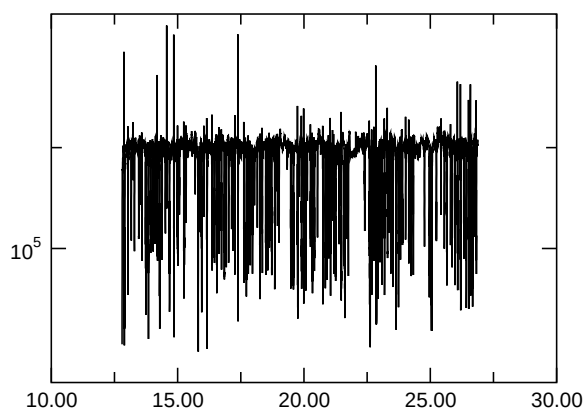
a.e03p001t06r-50000m1n2N2z9e5.12

times: 20.48001 21.76001 23.04001 24.32001 25.60001 26.88001

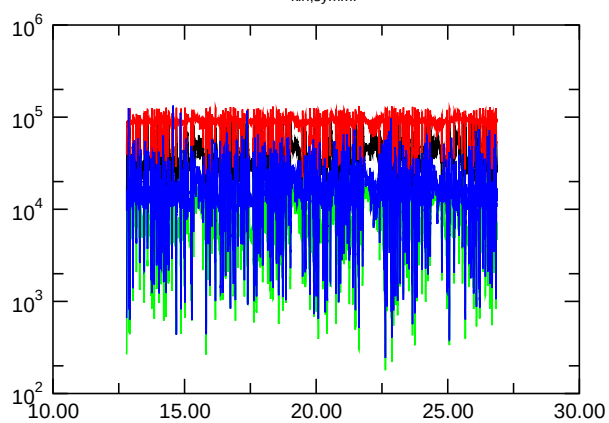
October 3, 2017



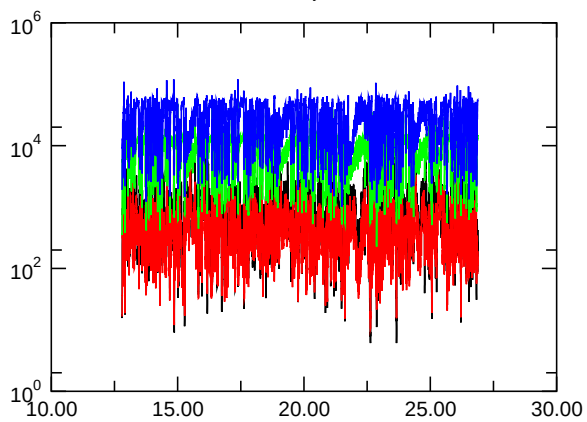
a.e03p001t06r-50000m1n2N2z9e5
 E_{kin}



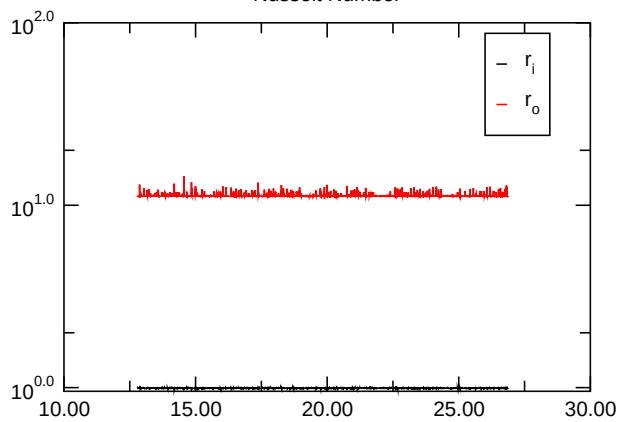
$E_{\text{kin,symm.}}$



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



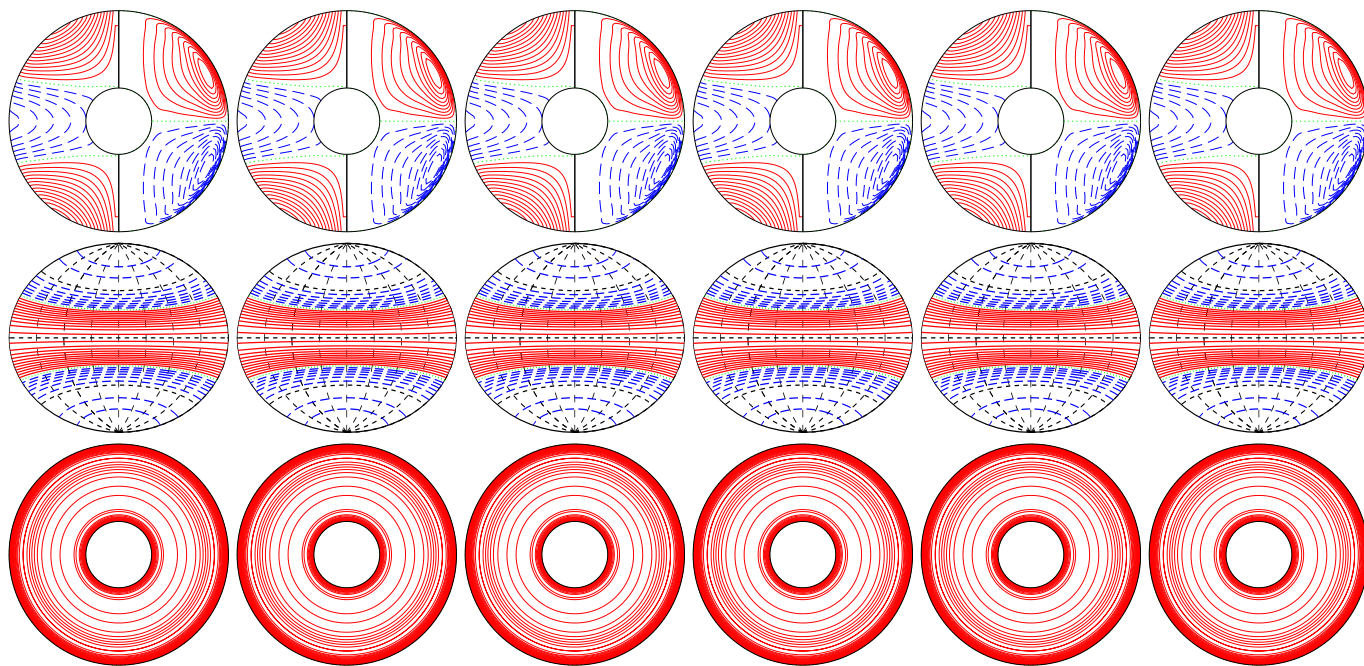
Nusselt Number



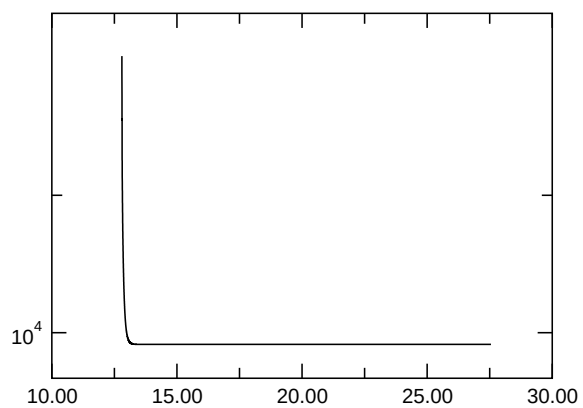
a.e03p005t1r-50000m1n2N2z34e4.12

times: 20.48001 21.76001 23.04001 24.32001 25.60001 26.88001

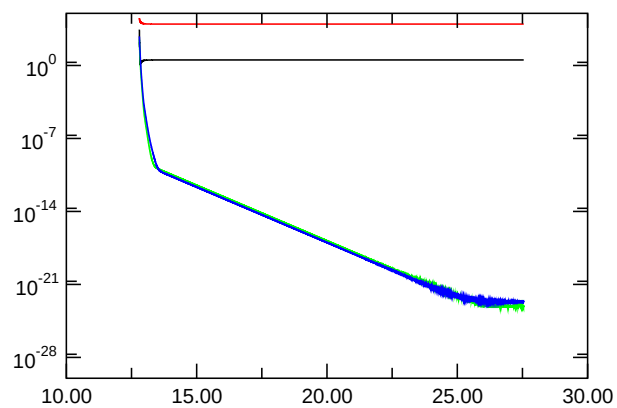
October 3, 2017



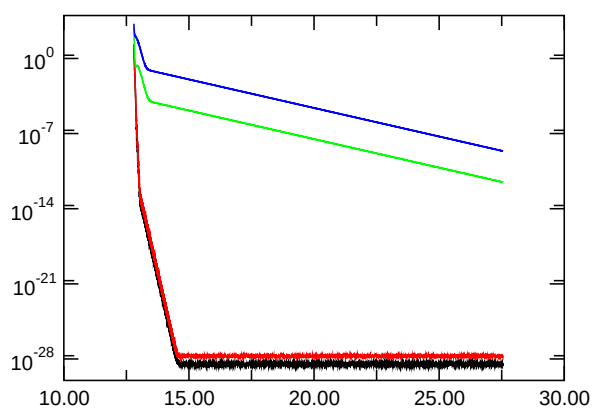
a.e03p005t1r-50000m1n2N2z34e4
 E_{kin}



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



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



Nusselt Number

