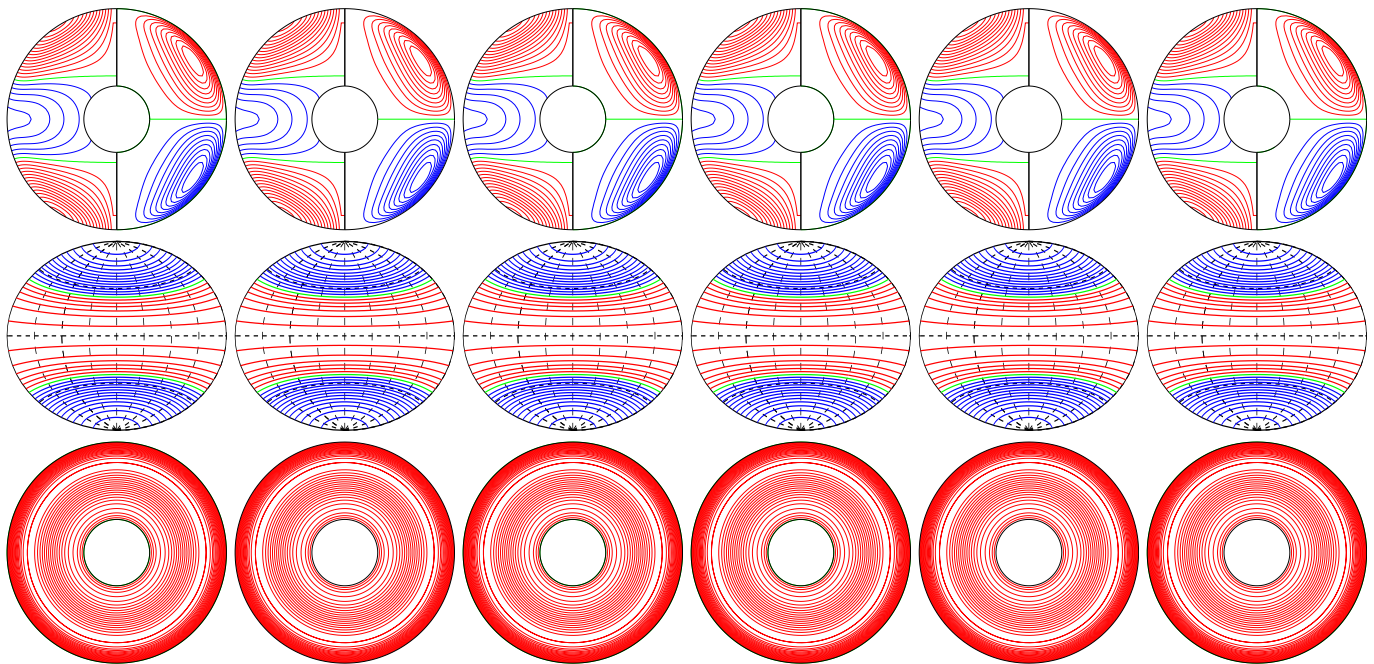


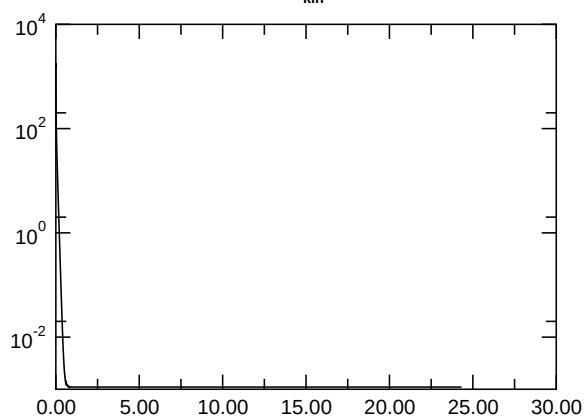
a.e03p01t03r-50000m1n2N2z4e1Y.20

times: 17.92001 19.20001 20.48001 21.76001 23.04001 24.32001

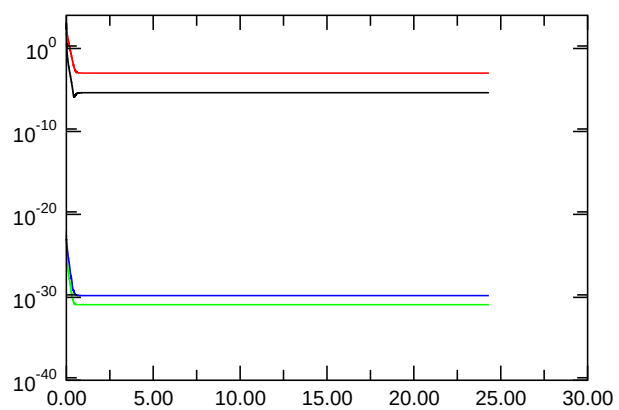
May 7, 2017



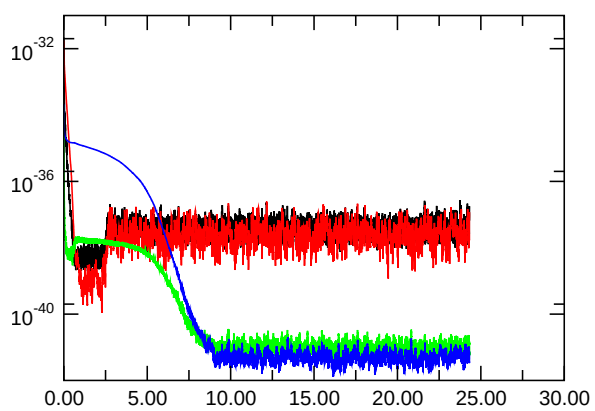
a.e03p01t03r-50000m1n2N2z4e1Y
 E_{kin}



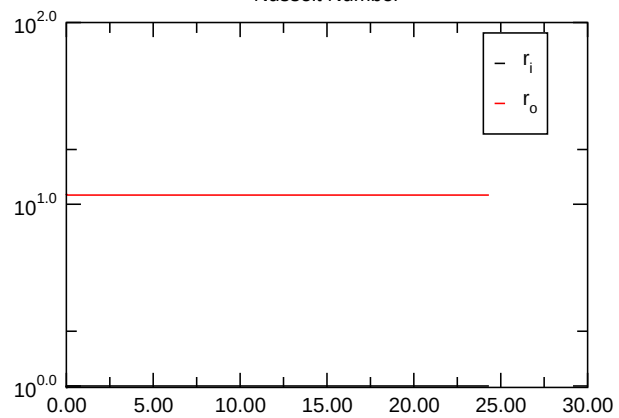
$E_{\text{kin,symm.}}$



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



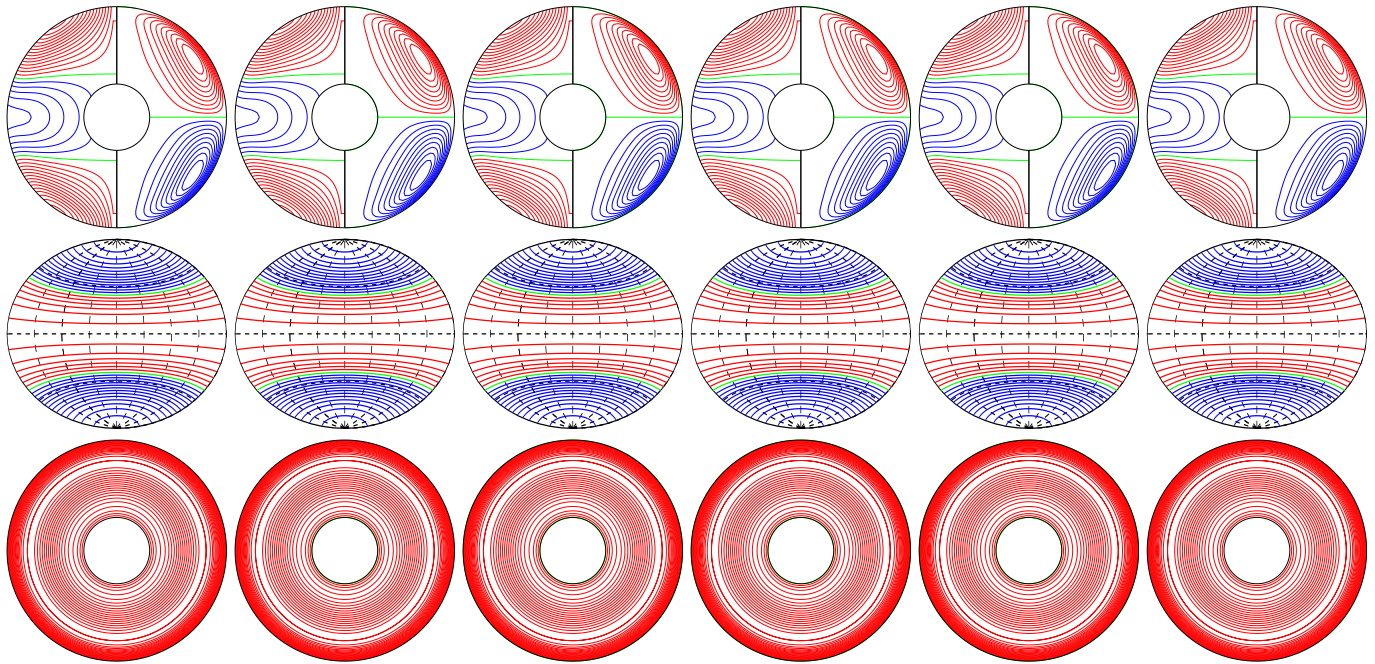
Nusselt Number



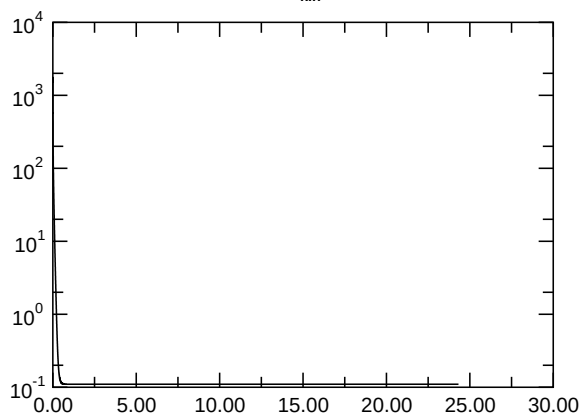
a.e03p01t03r-50000m1n2N2z4e2Y.20

times: 17.92001 19.20001 20.48001 21.76001 23.04001 24.32001

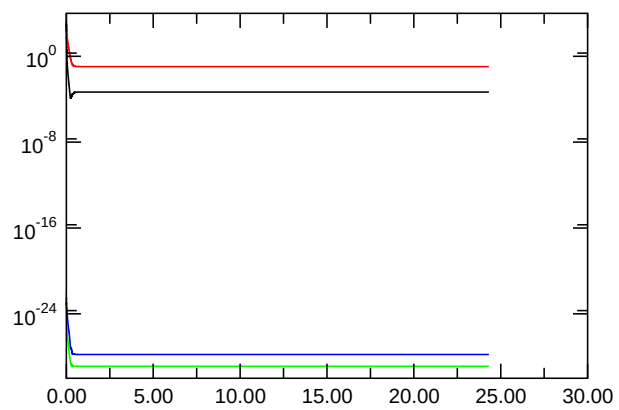
May 7, 2017



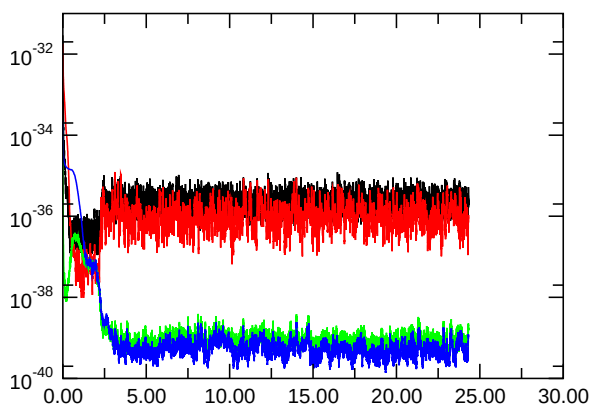
a.e03p01t03r-50000m1n2N2z4e2Y
 E_{kin}



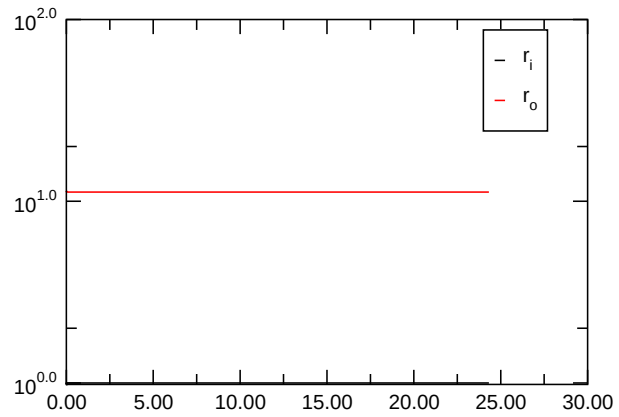
$E_{\text{kin,symm.}}$



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



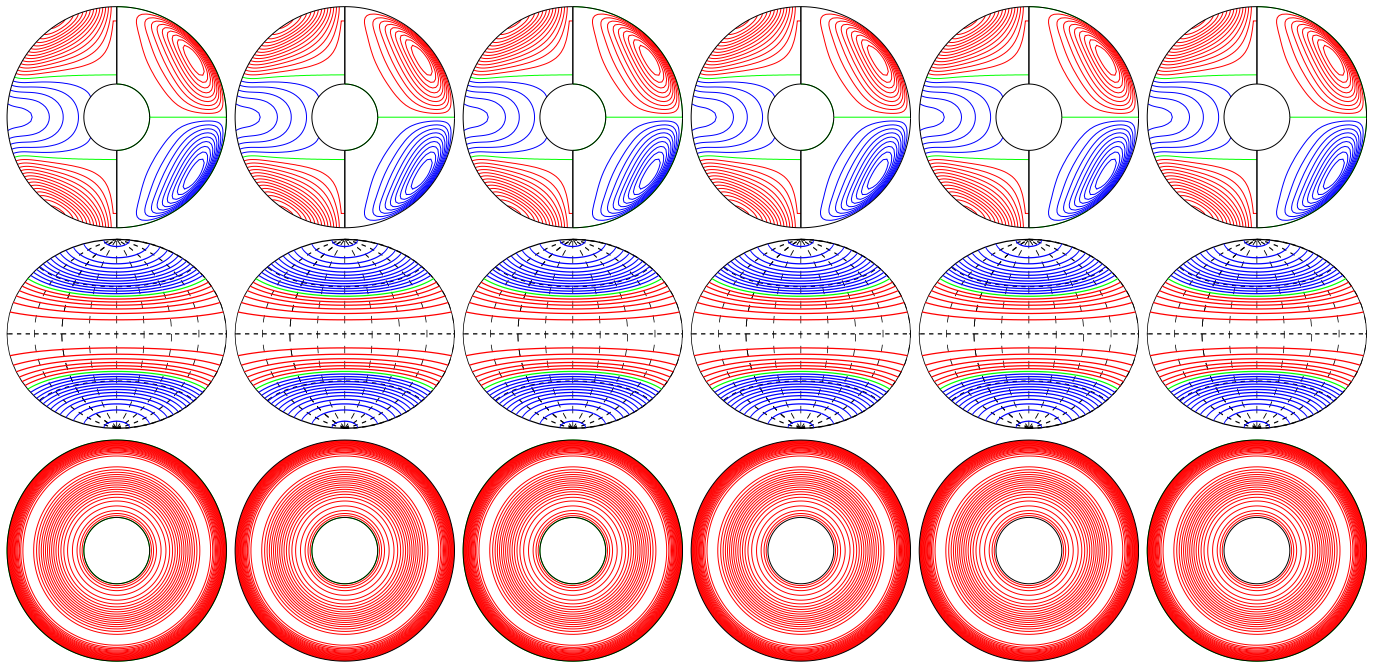
Nusselt Number



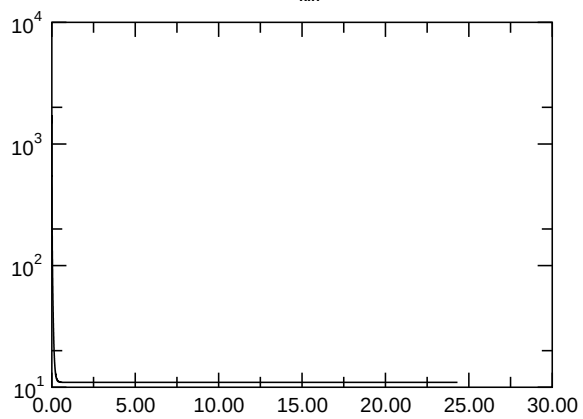
a.e03p01t03r-50000m1n2N2z4e3Y.20

times: 17.92001 19.20001 20.48001 21.76001 23.04001 24.32001

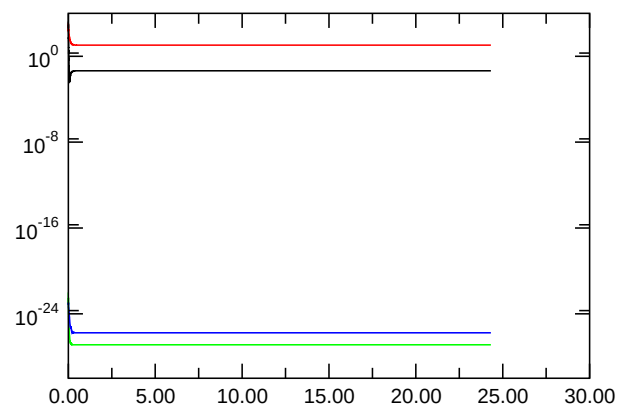
May 7, 2017



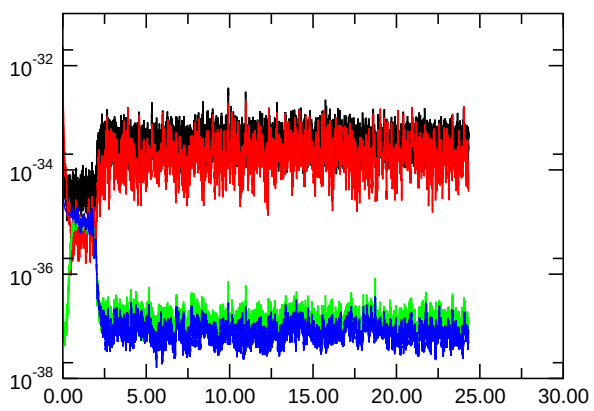
a.e03p01t03r-50000m1n2N2z4e3Y
 E_{kin}



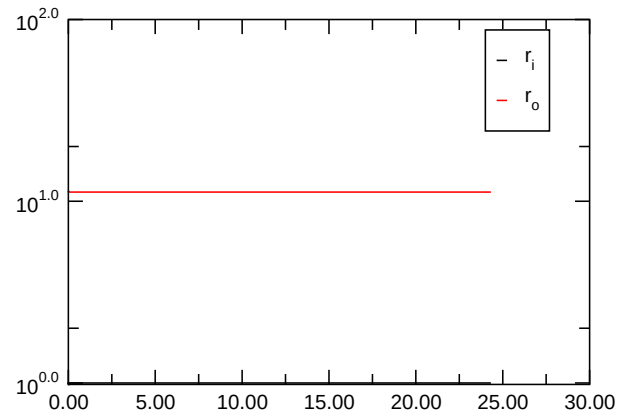
$E_{\text{kin,symm.}}$



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



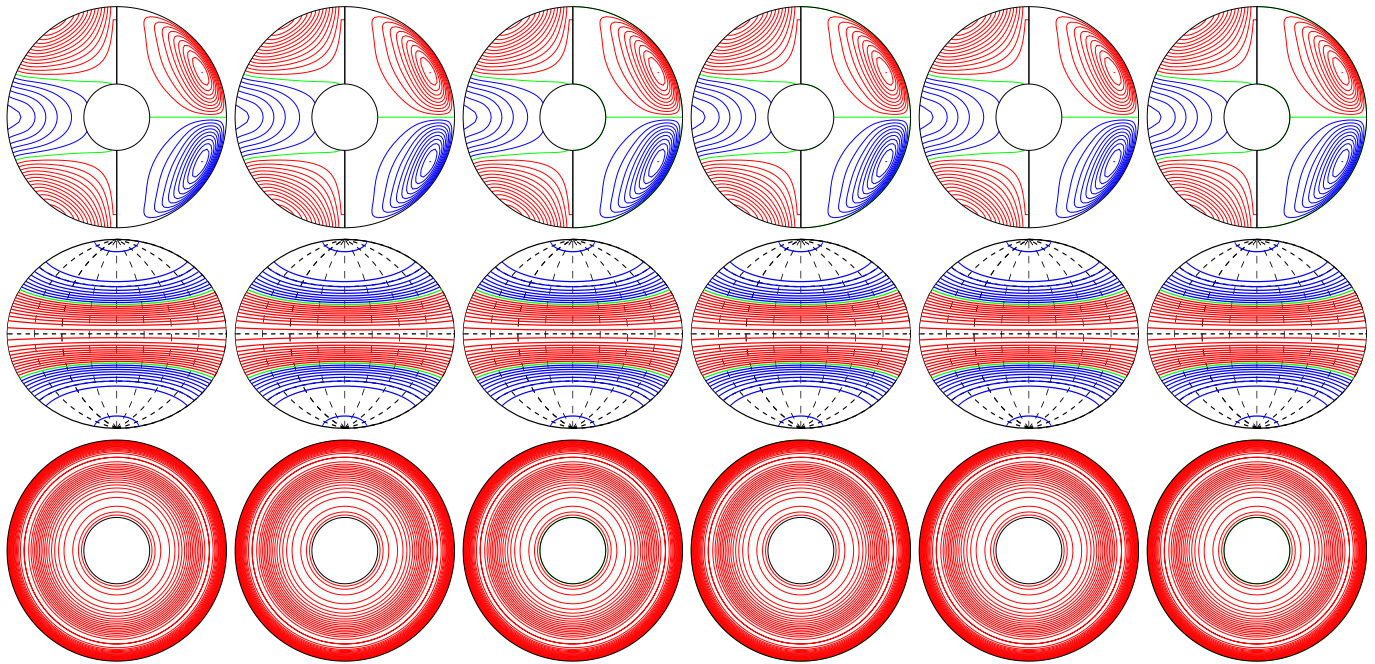
Nusselt Number



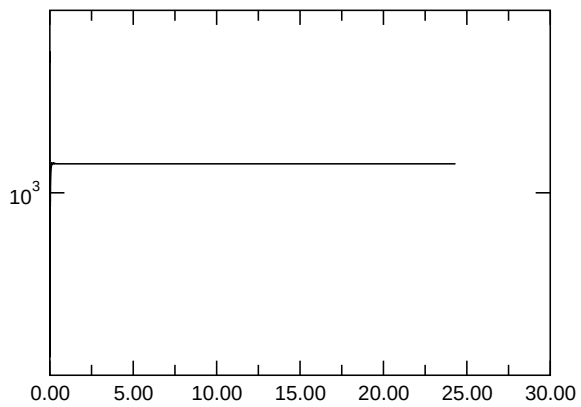
a.e03p01t03r-50000m1n2N2z4e4Y.20

times: 17.92001 19.20001 20.48001 21.76001 23.04001 24.32001

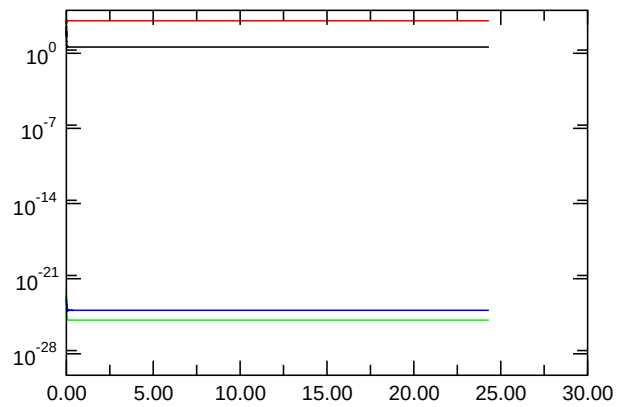
May 7, 2017



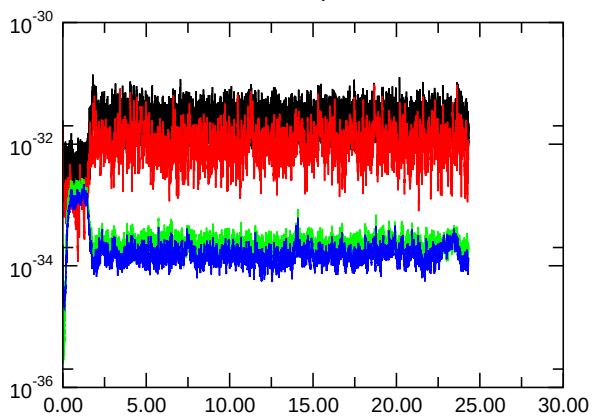
a.e03p01t03r-50000m1n2N2z4e4Y
 E_{kin}



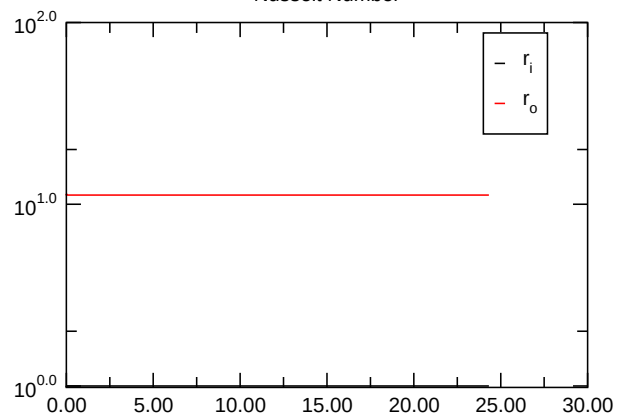
$E_{\text{kin,symm.}}$



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



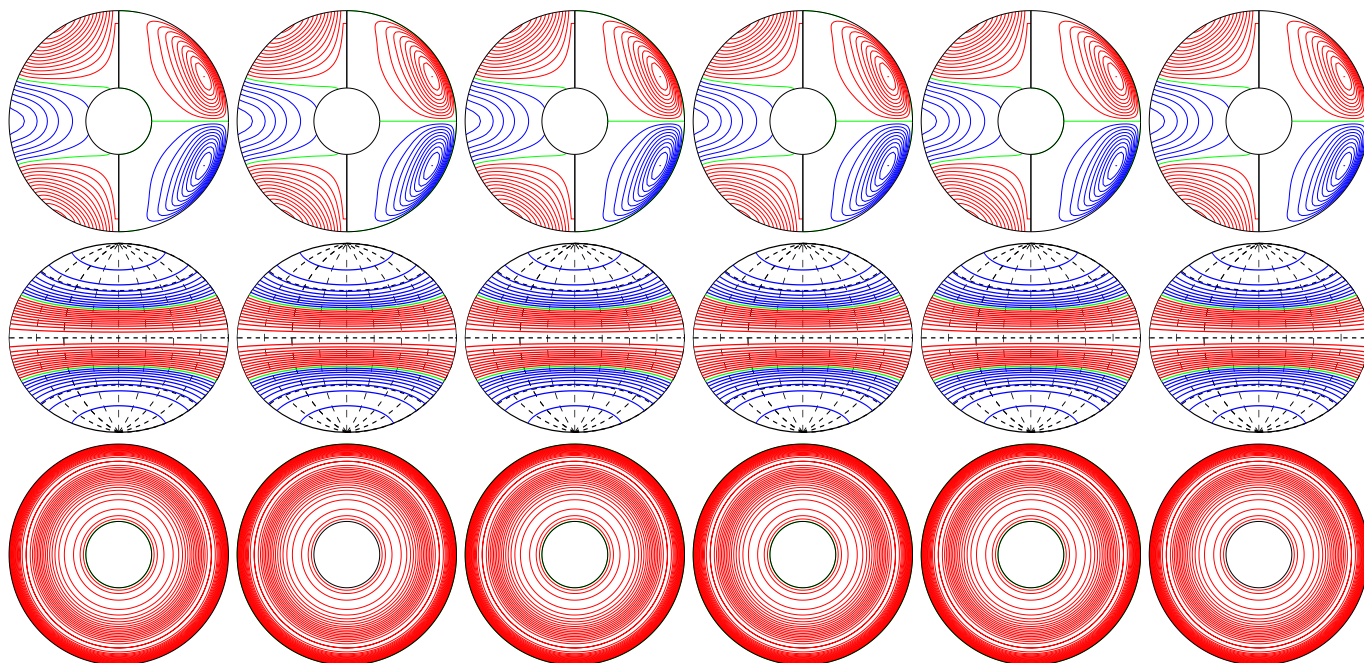
Nusselt Number



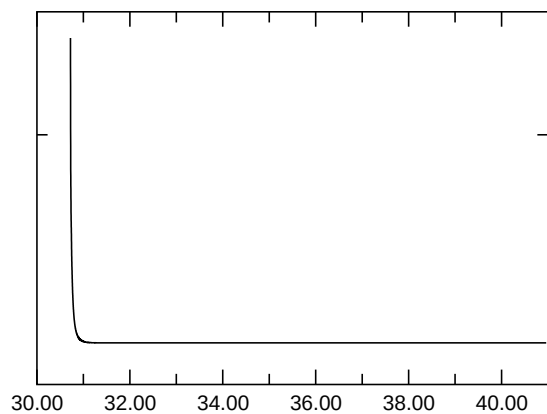
a.e03p01t03r-50000m1n2N2z4.5e4Y.9

May 7, 2017

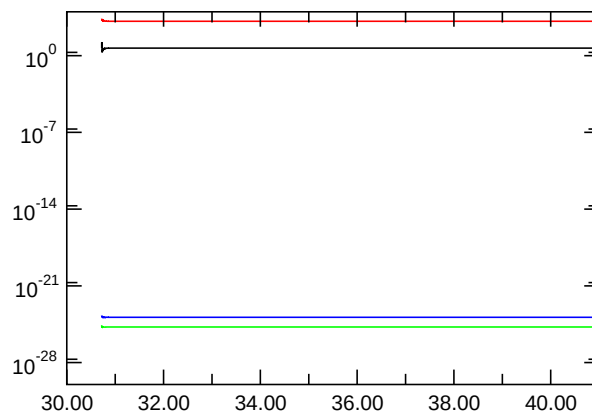
times: 34.56001 35.84001 37.12001 38.40001 39.68001 40.96001



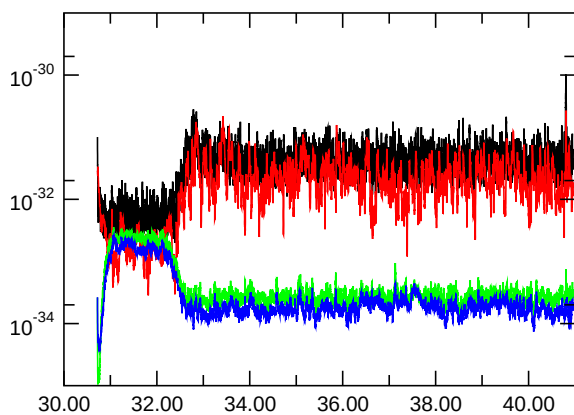
a.e03p01t03r-50000m1n2N2z4.5e4Y
 E_{kin}



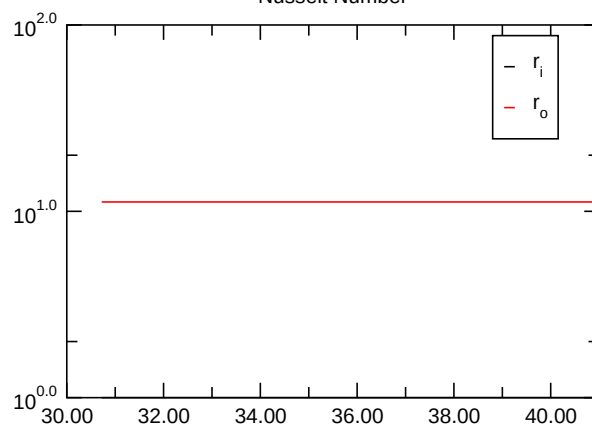
$E_{\text{kin,symm.}}$



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



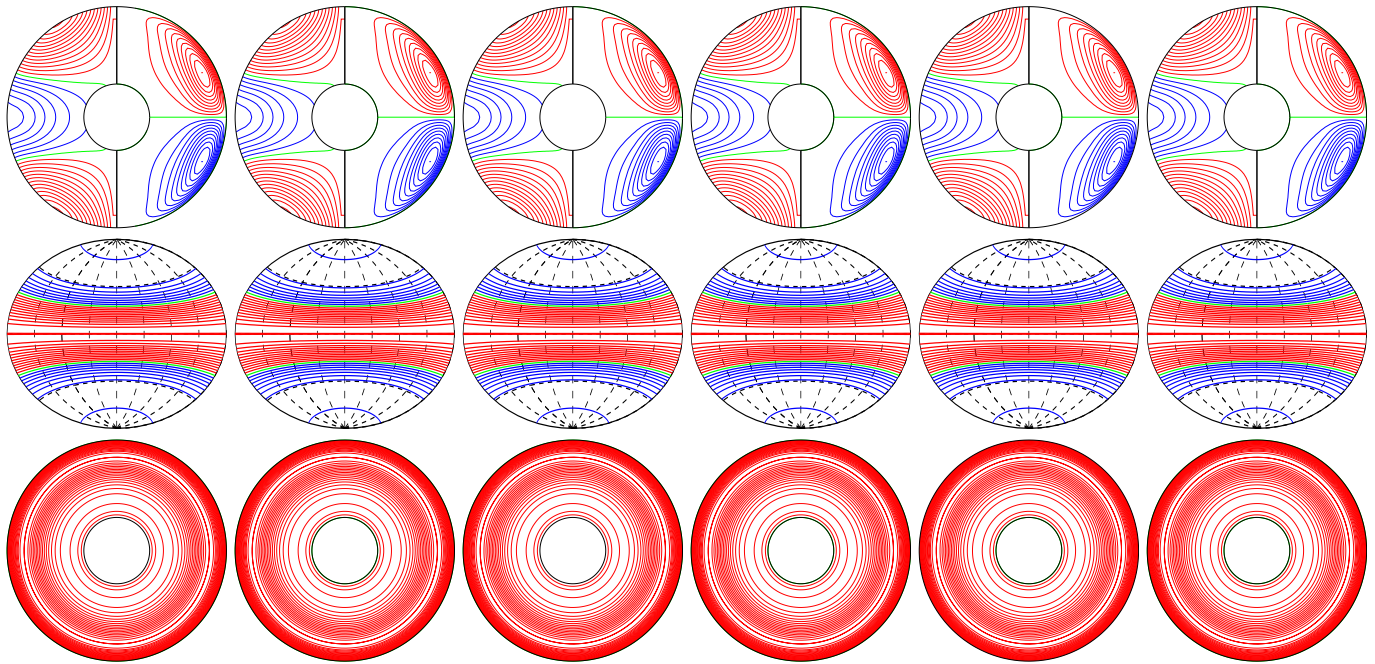
Nusselt Number



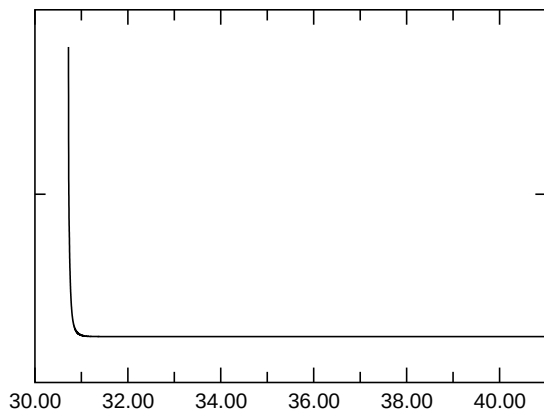
a.e03p01t03r-50000m1n2N2z5e4Y.9

May 7, 2017

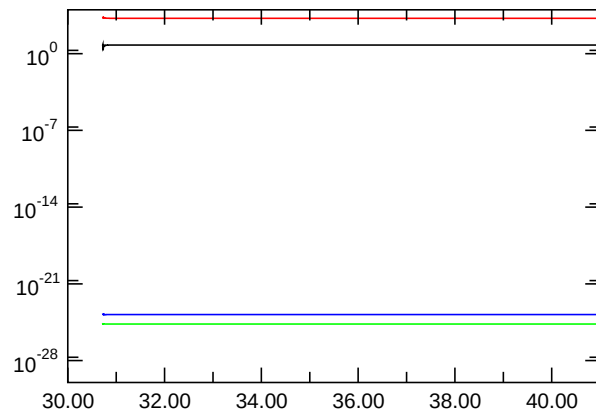
times: 34.56001 35.84001 37.12001 38.40001 39.68001 40.96001



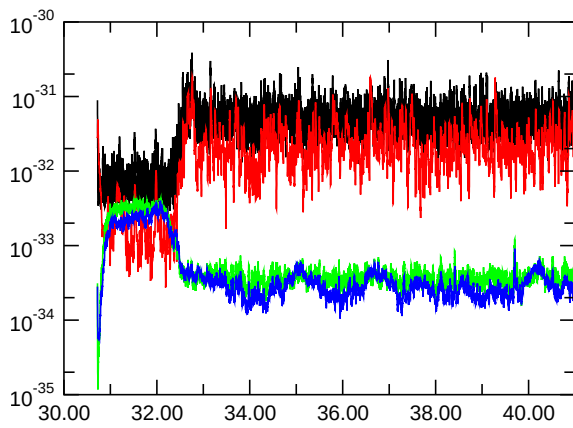
a.e03p01t03r-50000m1n2N2z5e4Y
 E_{kin}



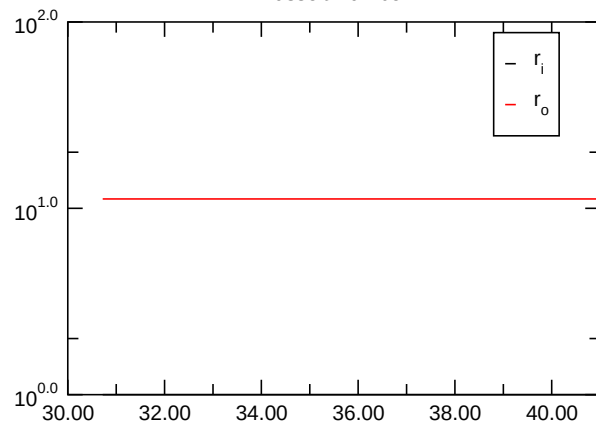
$E_{\text{kin,symm.}}$



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



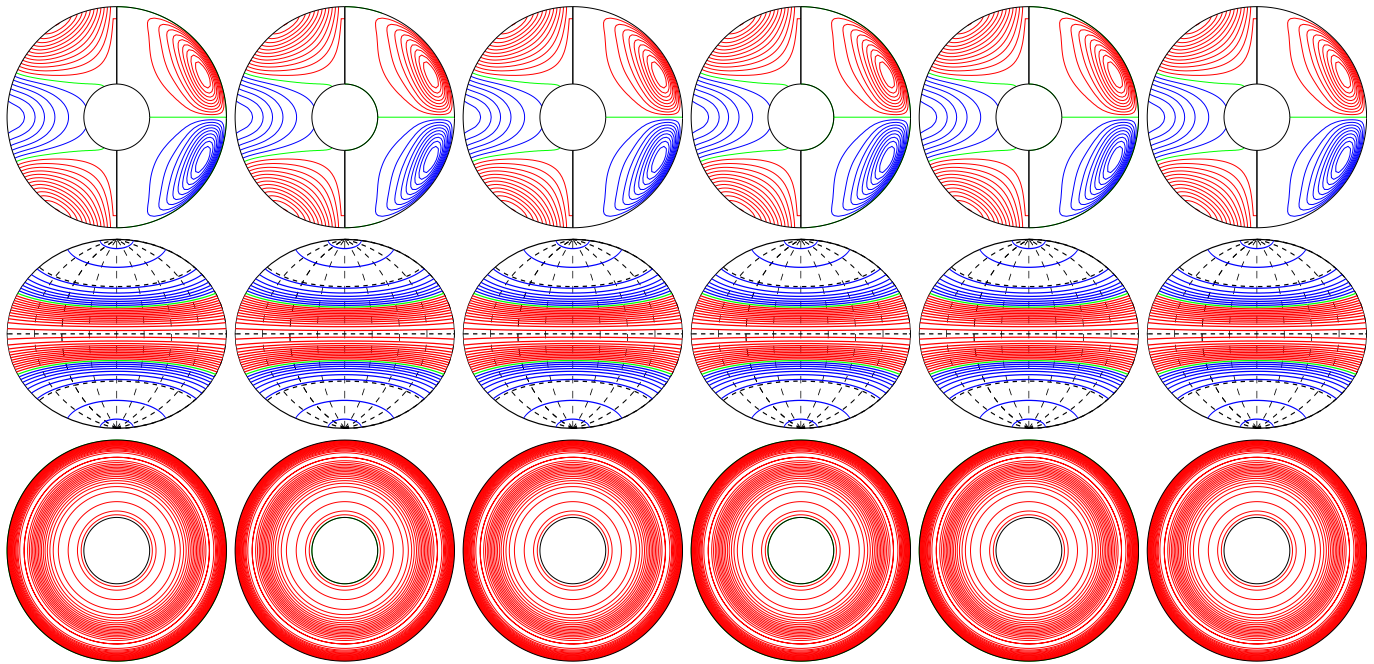
Nusselt Number



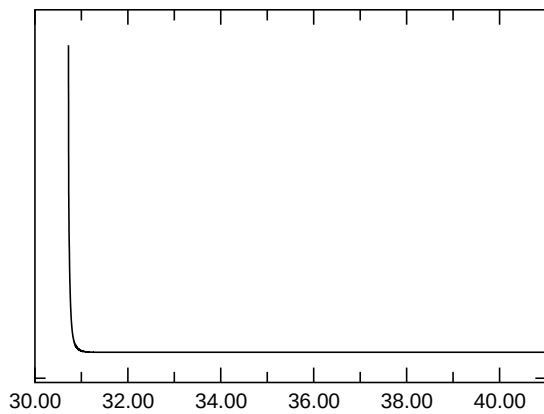
a.e03p01t03r-50000m1n2N2z5.5e4Y.9

times: 34.56001 35.84001 37.12001 38.40001 39.68001 40.96001

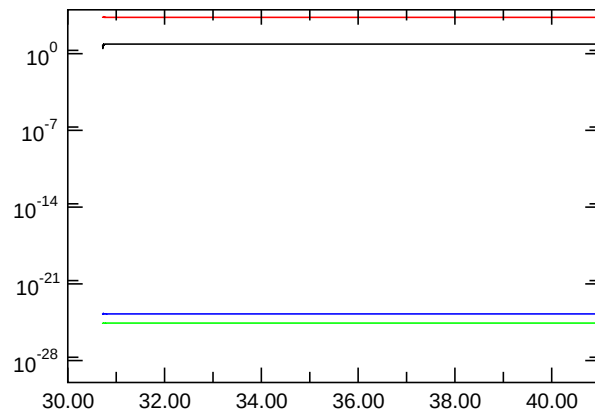
May 7, 2017



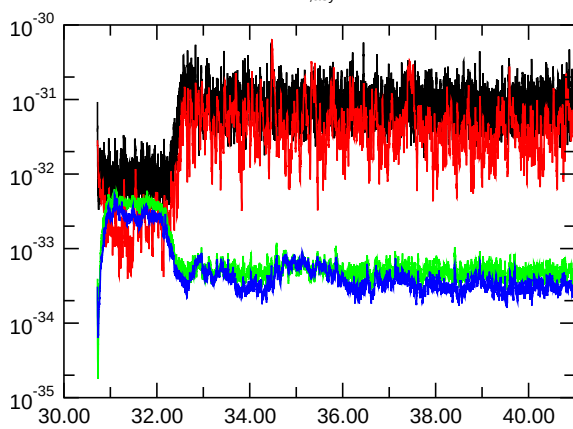
a.e03p01t03r-50000m1n2N2z5.5e4Y
 E_{kin}



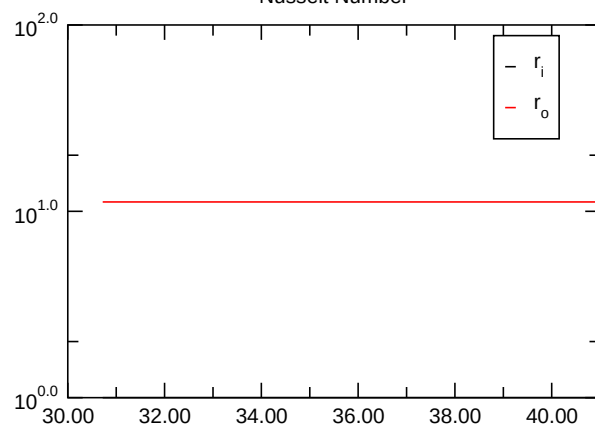
$E_{\text{kin,symm.}}$



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



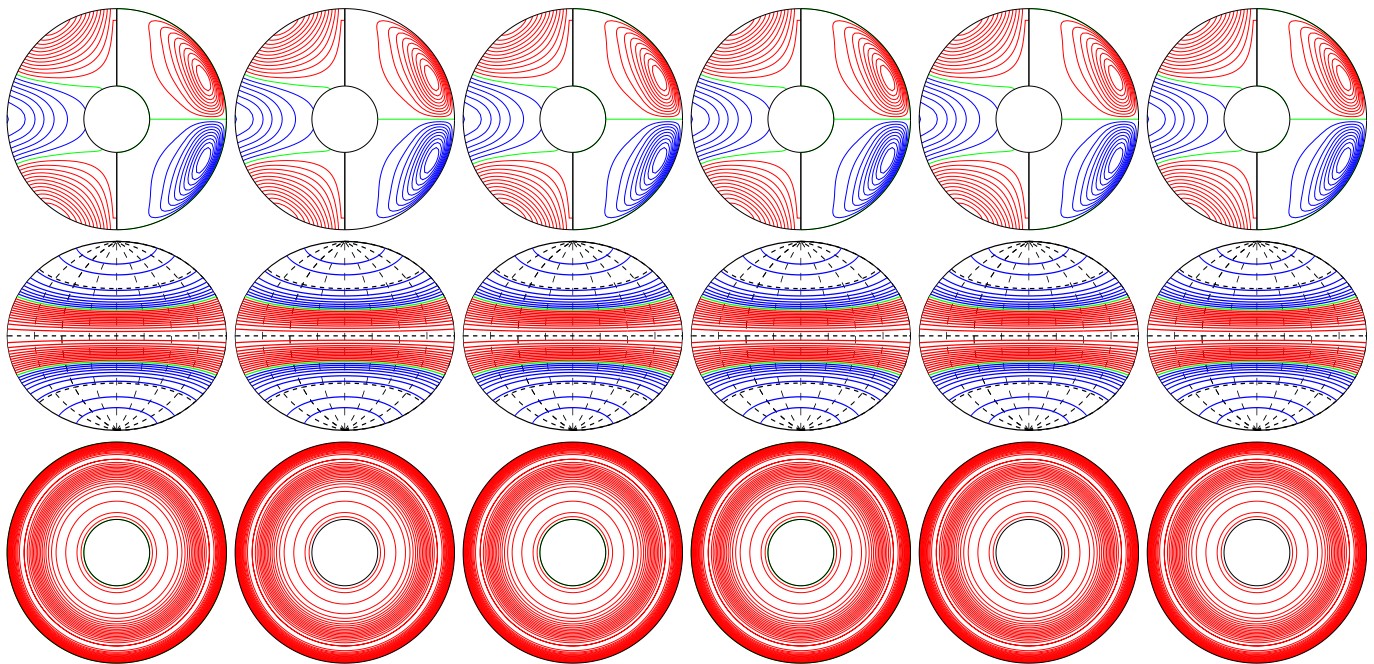
Nusselt Number



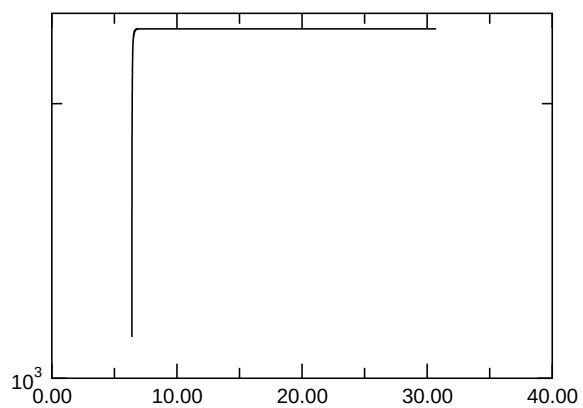
a.e03p01t03r-50000m1n2N2z6e4Y.20

times: 24.32001 25.60001 26.88001 28.16001 29.44001 30.72001

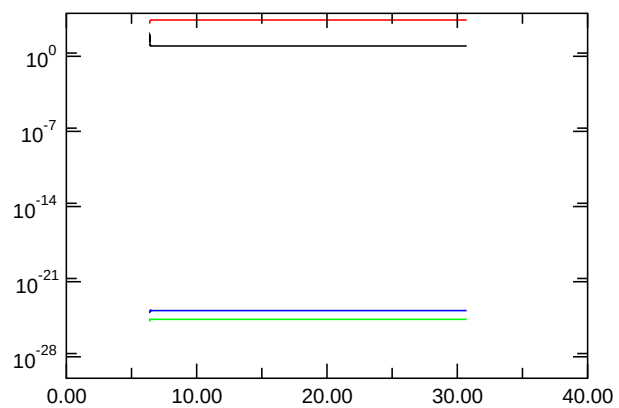
May 7, 2017



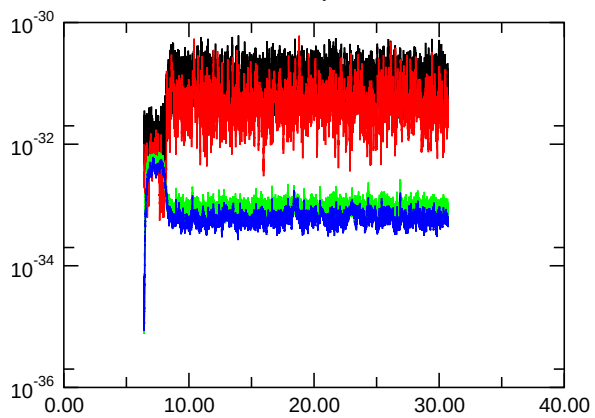
a.e03p01t03r-50000m1n2N2z6e4Y
 E_{kin}



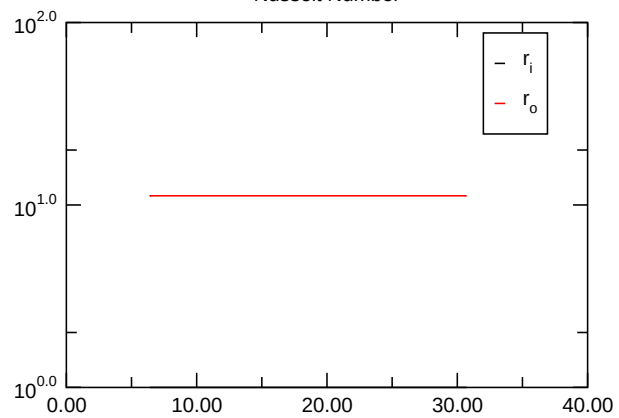
$E_{\text{kin,symm.}}$



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



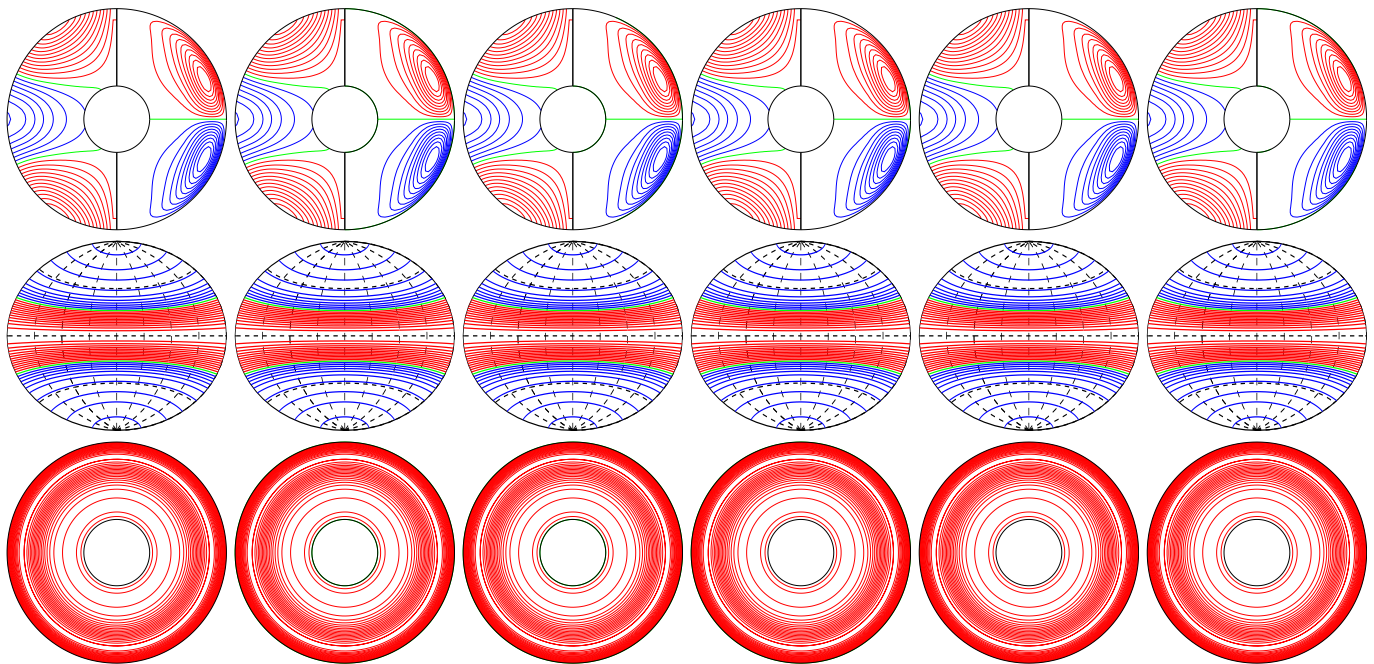
Nusselt Number



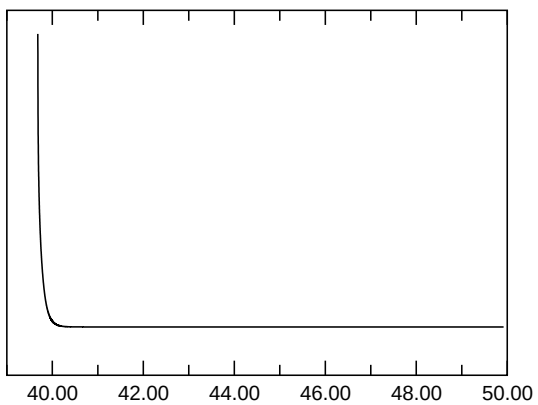
a.e03p01t03r-50000m1n2N2z6.5e4Y.9

times: 43.52001 44.80001 46.08001 47.36001 48.64001 49.92001

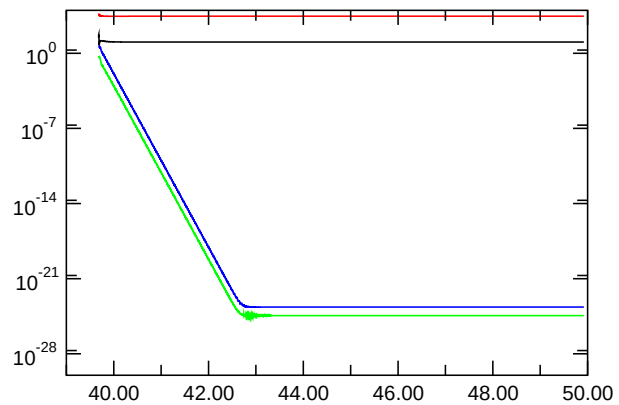
May 7, 2017



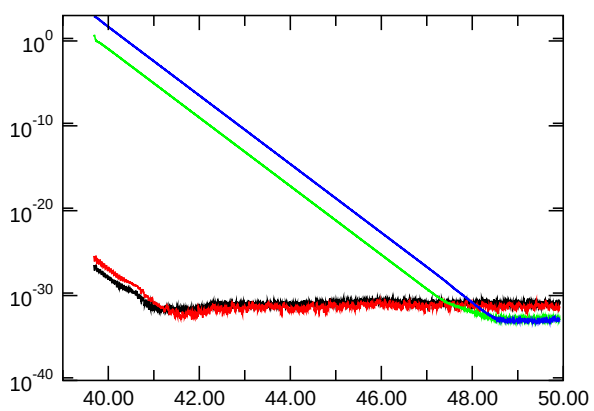
a.e03p01t03r-50000m1n2N2z6.5e4Y
 E_{kin}



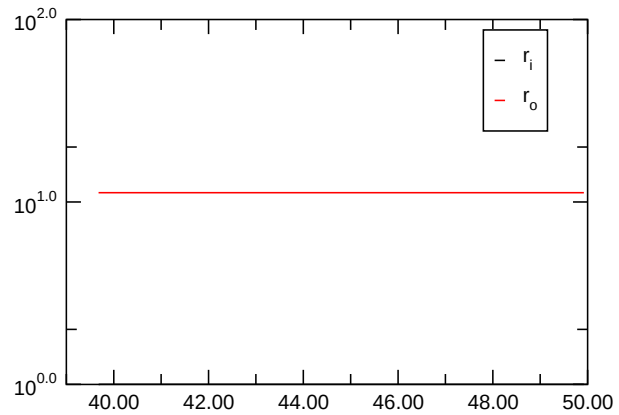
$E_{\text{kin, symm.}}$



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



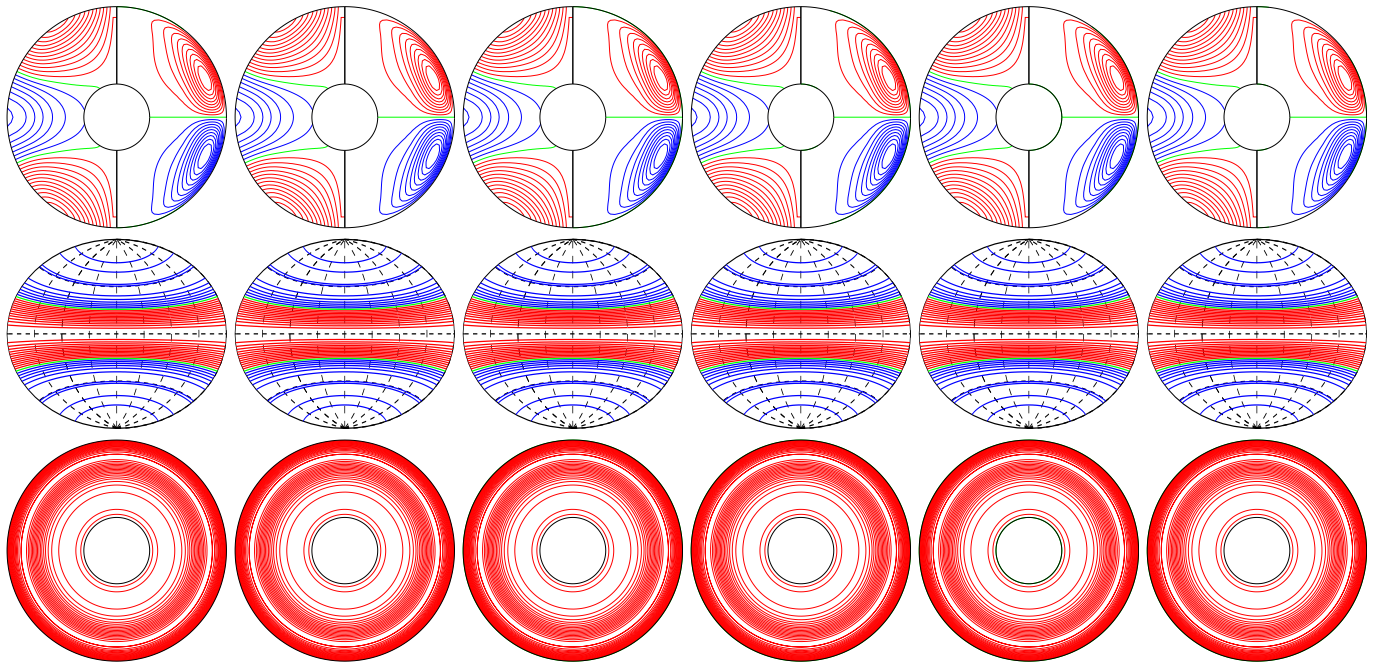
Nusselt Number



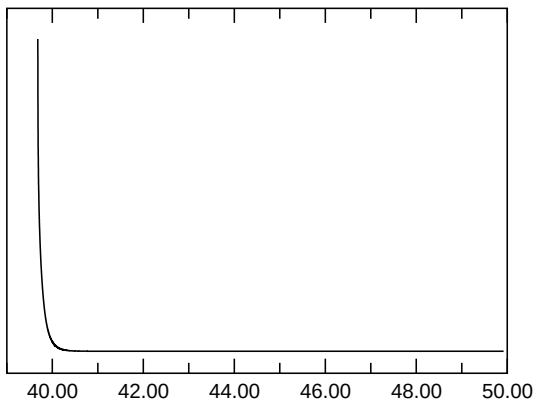
a.e03p01t03r-50000m1n2N2z7e4Y.9

times: 43.52001 44.80001 46.08001 47.36001 48.64001 49.92001

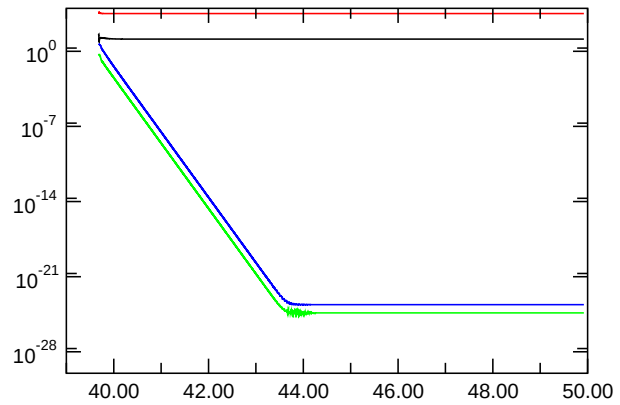
May 7, 2017



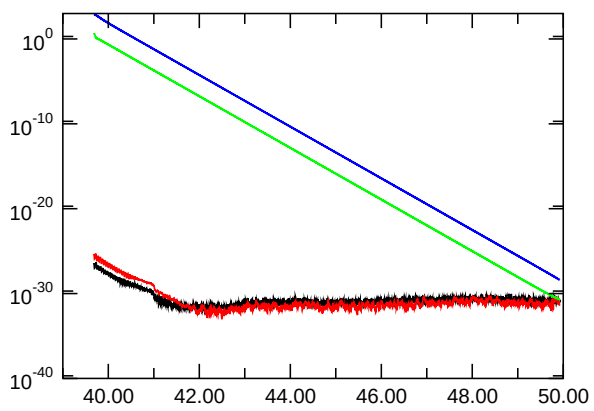
a.e03p01t03r-50000m1n2N2z7e4Y
 E_{kin}



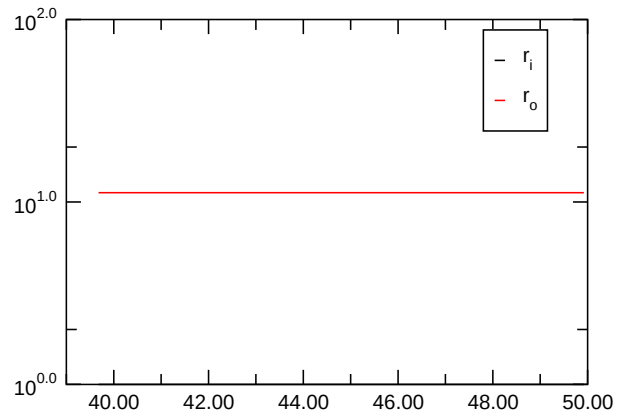
$E_{\text{kin,symm.}}$



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



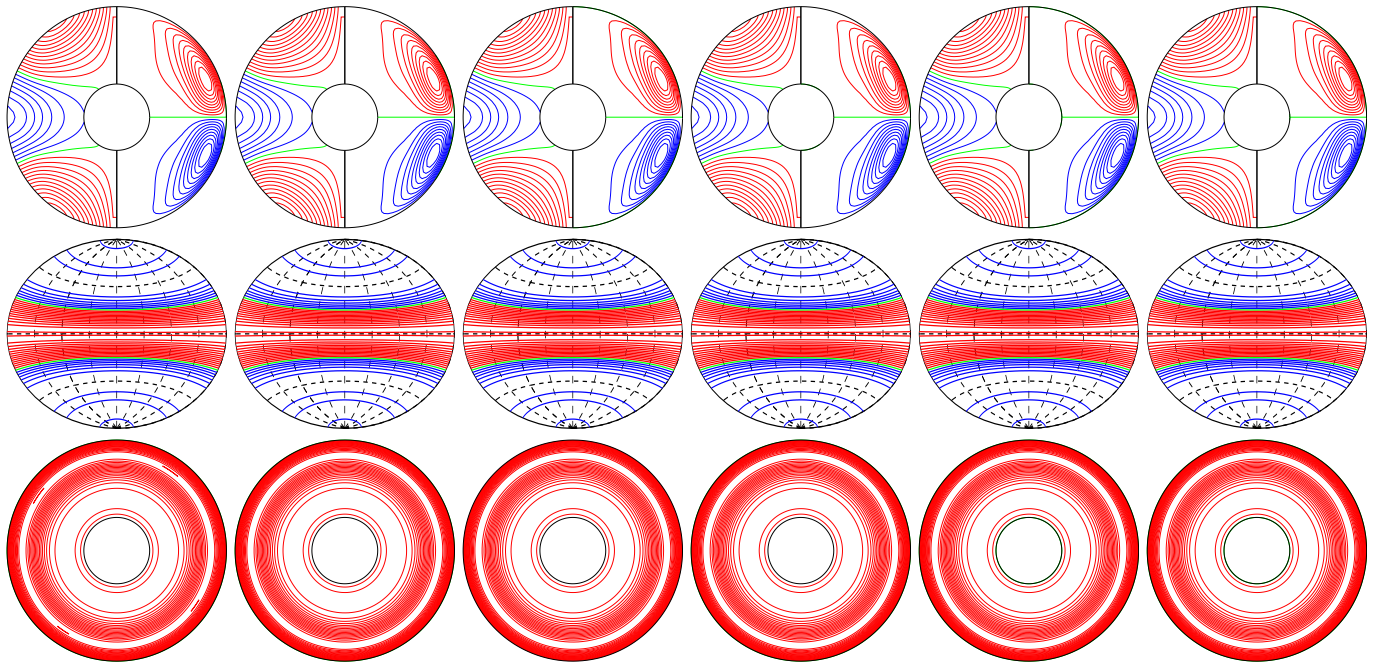
Nusselt Number



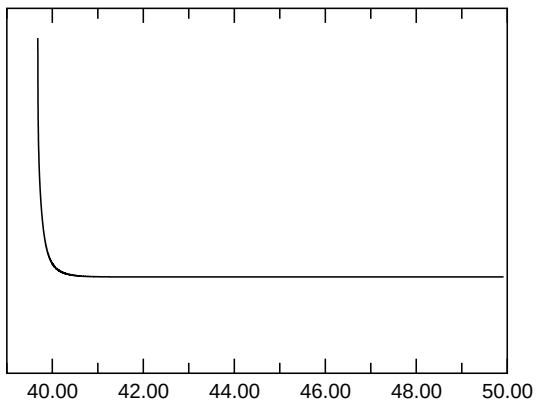
a.e03p01t03r-50000m1n2N2z7.5e4Y.9

times: 43.52001 44.80001 46.08001 47.36001 48.64001 49.92001

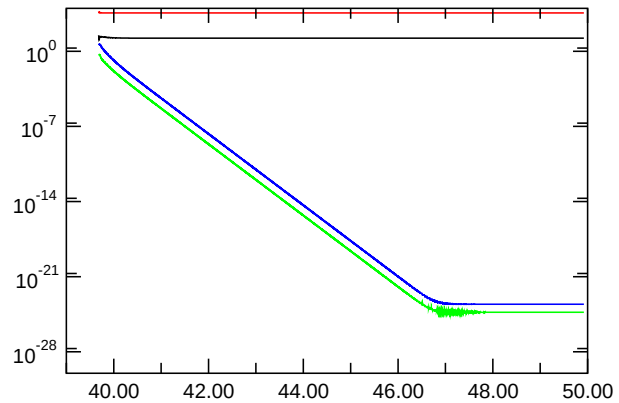
May 7, 2017



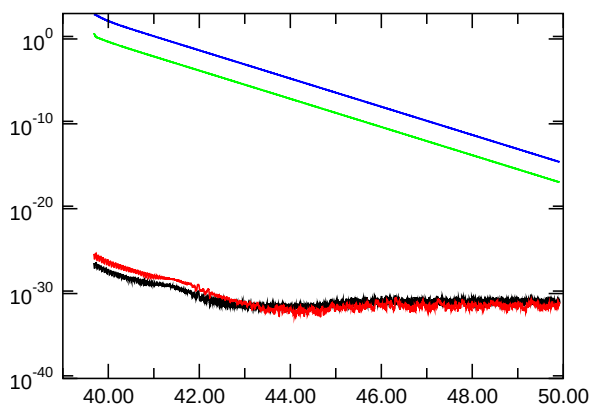
a.e03p01t03r-50000m1n2N2z7.5e4Y
 E_{kin}



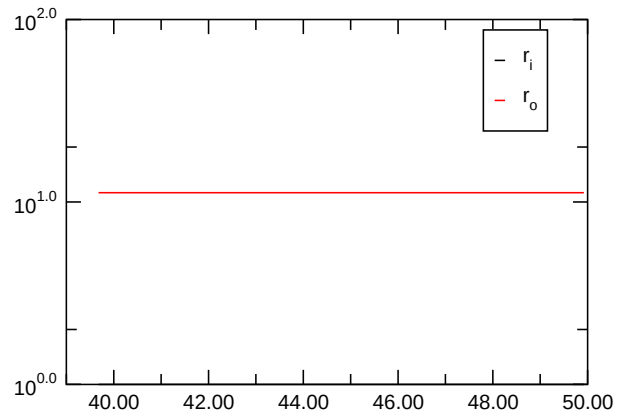
$E_{\text{kin,symm.}}$



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



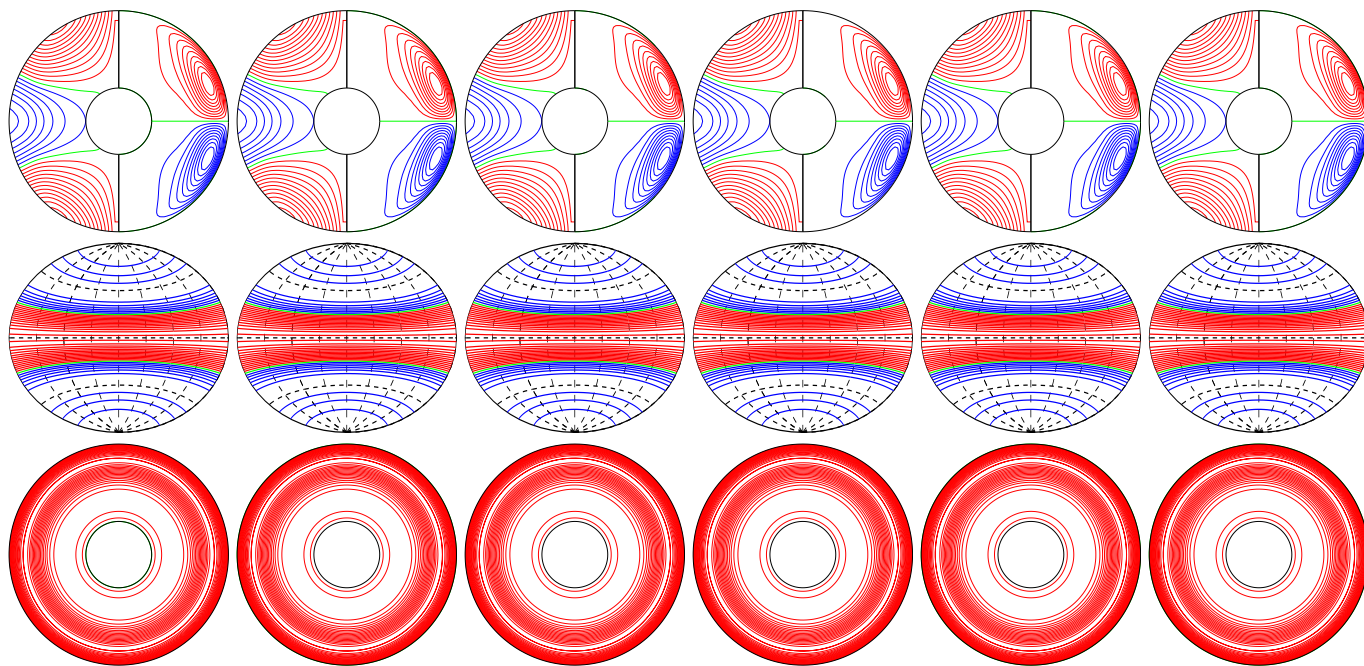
Nusselt Number



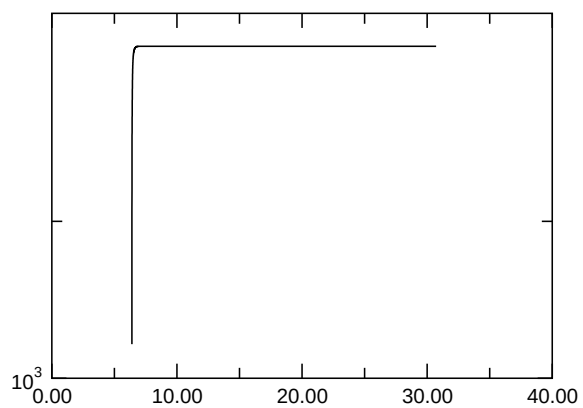
a.e03p01t03r-50000m1n2N2z8e4Y.20

May 7, 2017

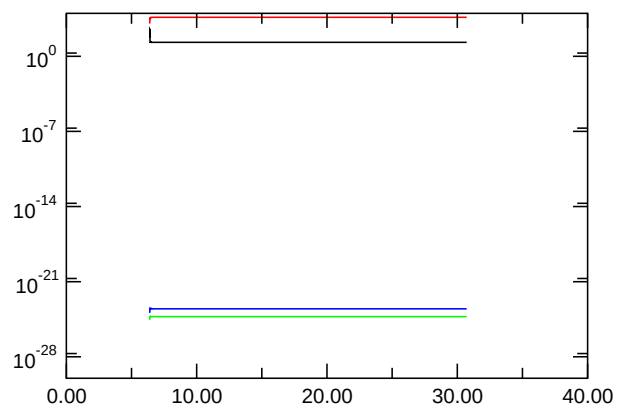
times: 24.32001 25.60001 26.88001 28.16001 29.44001 30.72001



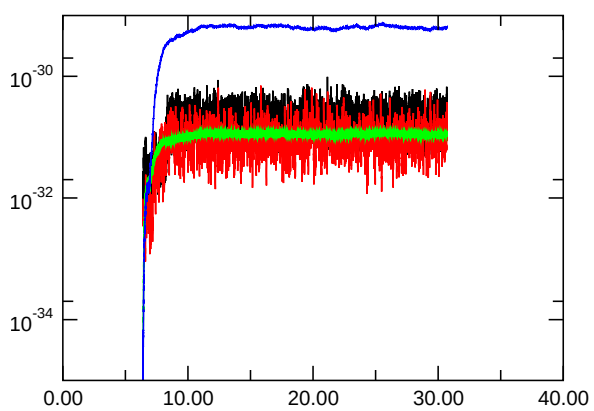
a.e03p01t03r-50000m1n2N2z8e4Y
 E_{kin}



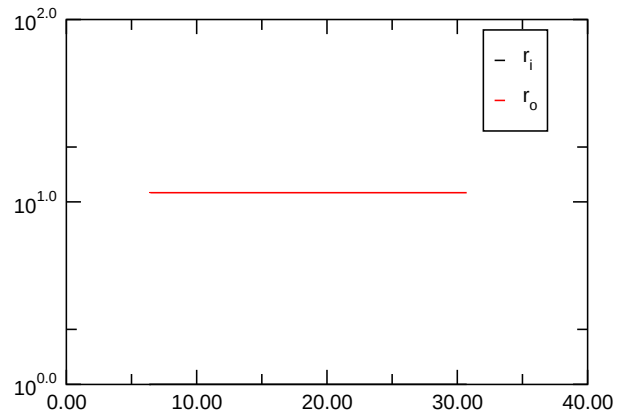
$E_{\text{kin, symm.}}$



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



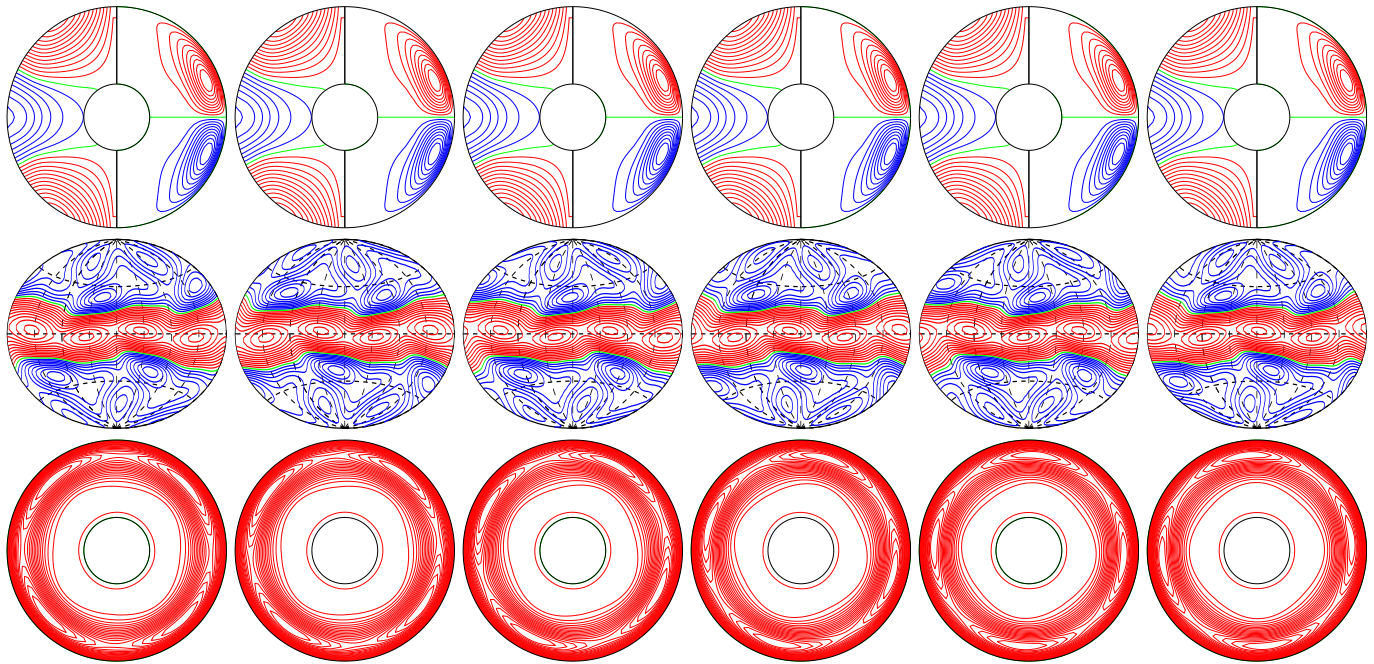
Nusselt Number



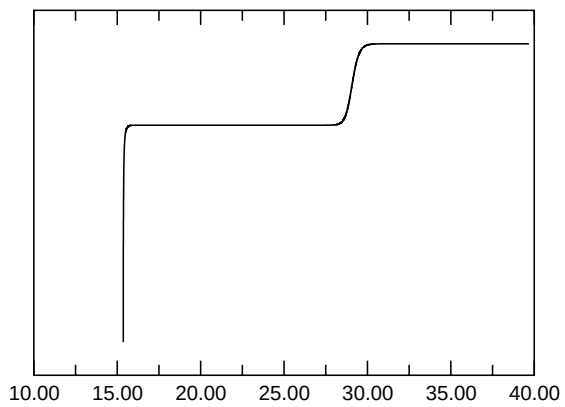
a.e03p01t03r-50000m1n2N2z8.5e4b.20

times: 33.28001 34.56001 35.84001 37.12001 38.40001 39.68001

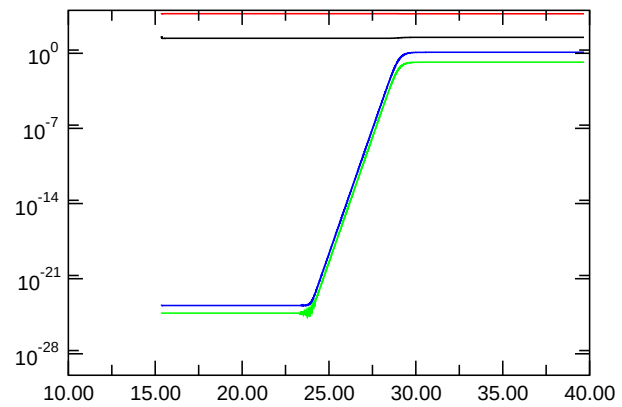
May 7, 2017



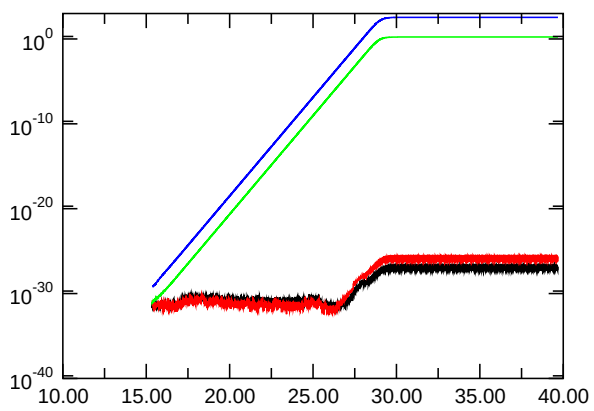
a.e03p01t03r-50000m1n2N2z8.5e4b
 E_{kin}



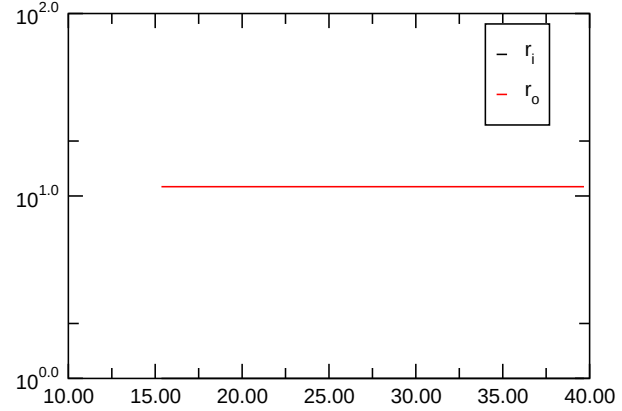
$E_{\text{kin,symm.}}$



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



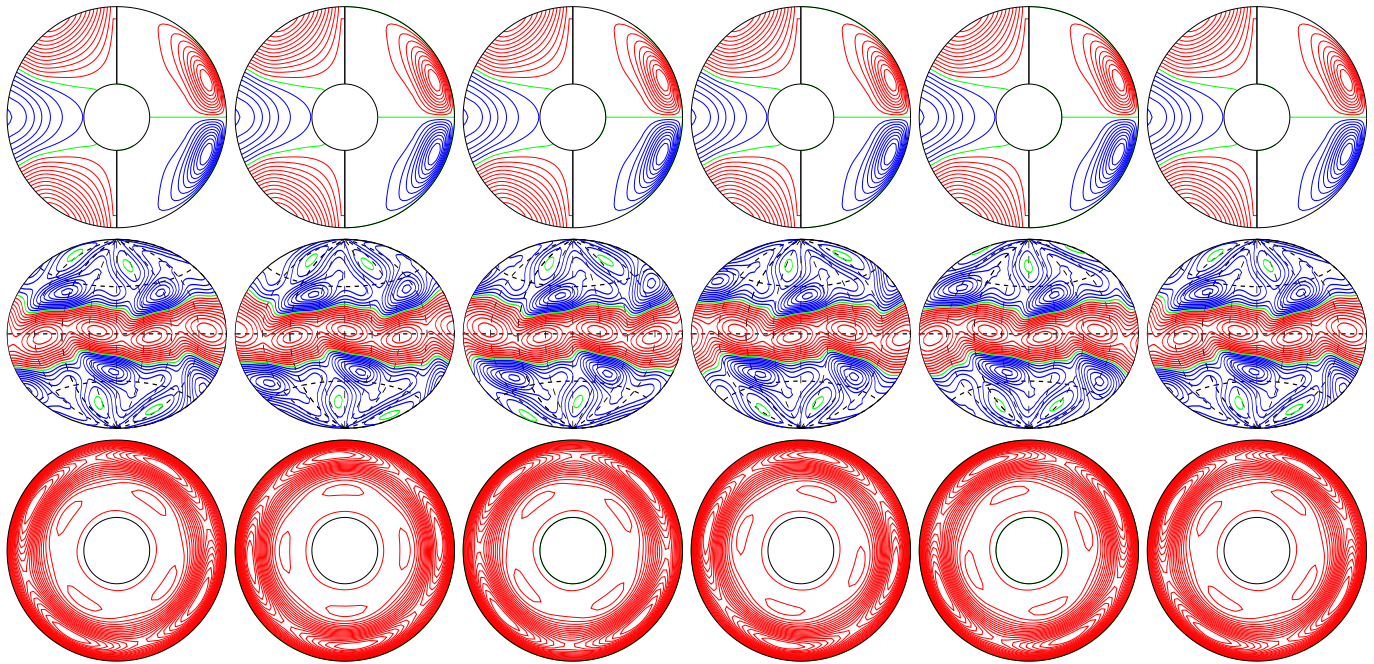
Nusselt Number



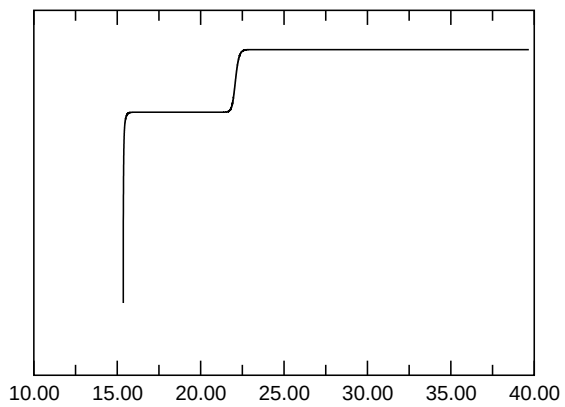
a.e03p01t03r-50000m1n2N2z9e4b.20

times: 33.28001 34.56001 35.84001 37.12001 38.40001 39.68001

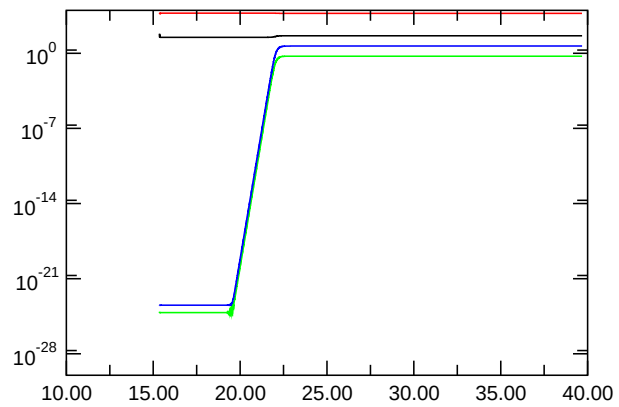
May 7, 2017



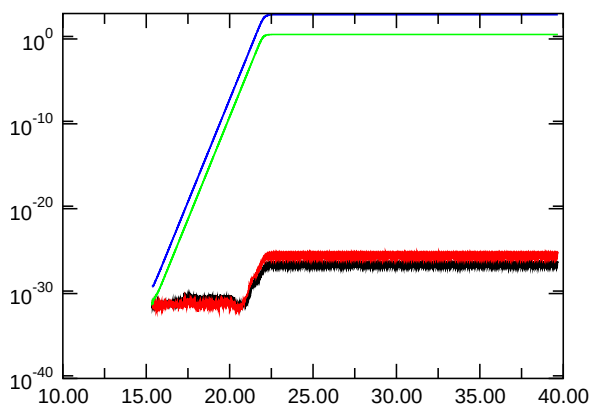
a.e03p01t03r-50000m1n2N2z9e4b
 E_{kin}



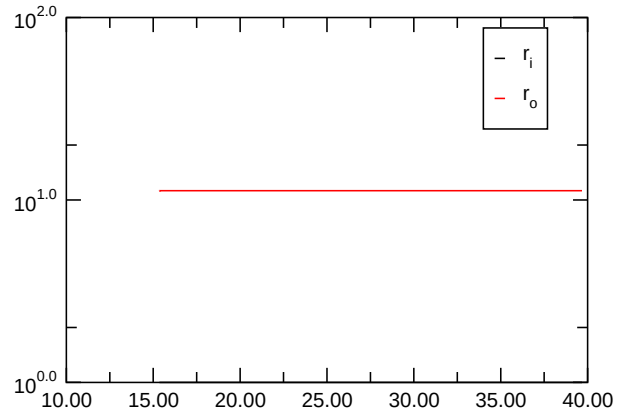
$E_{\text{kin,symm.}}$



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



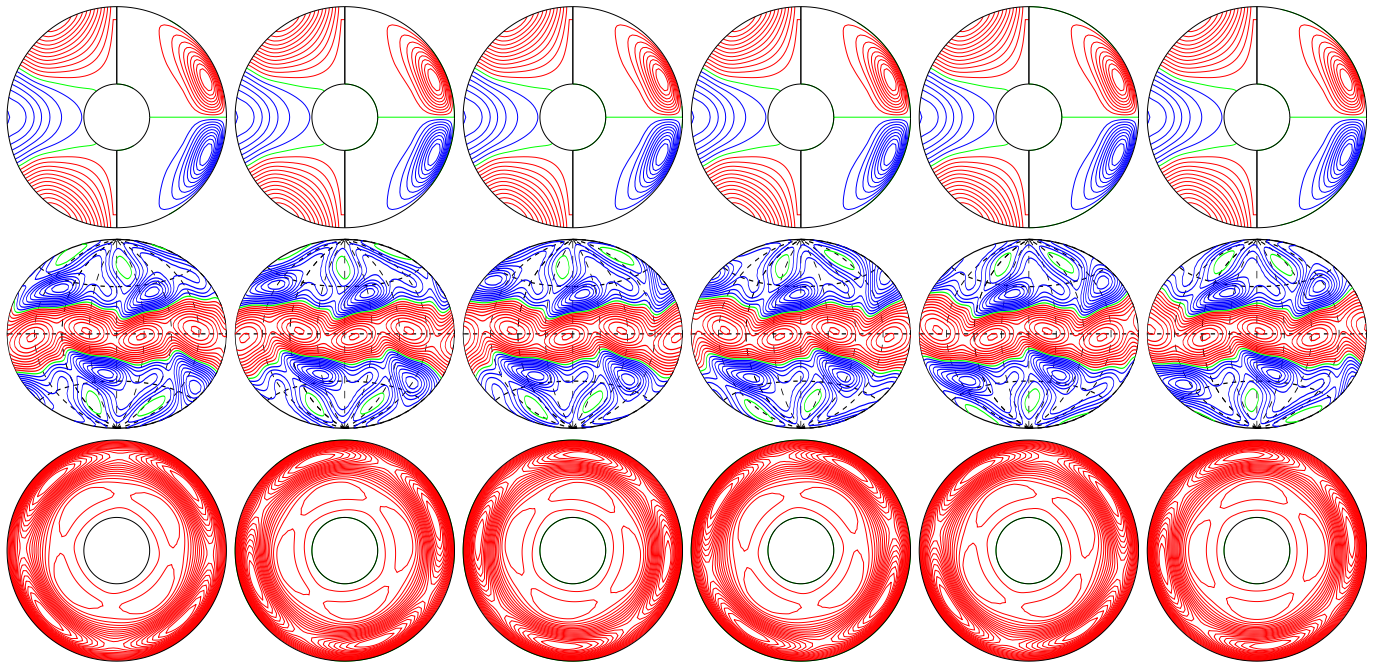
Nusselt Number



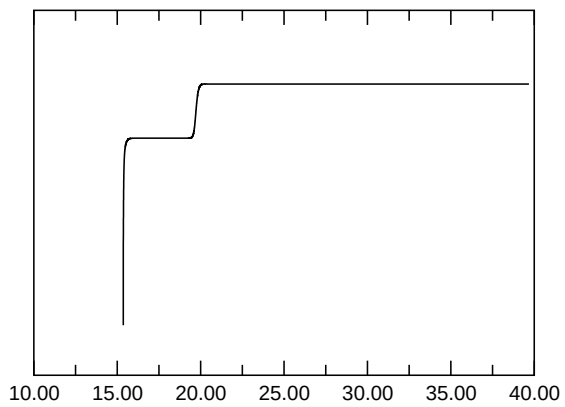
a.e03p01t03r-50000m1n2N2z9.5e4b.20

times: 33.28001 34.56001 35.84001 37.12001 38.40001 39.68001

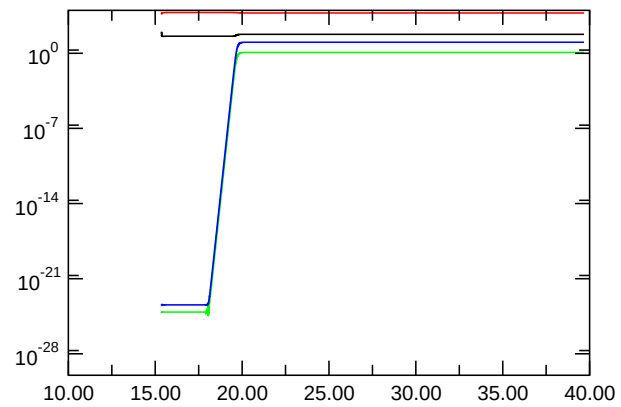
May 7, 2017



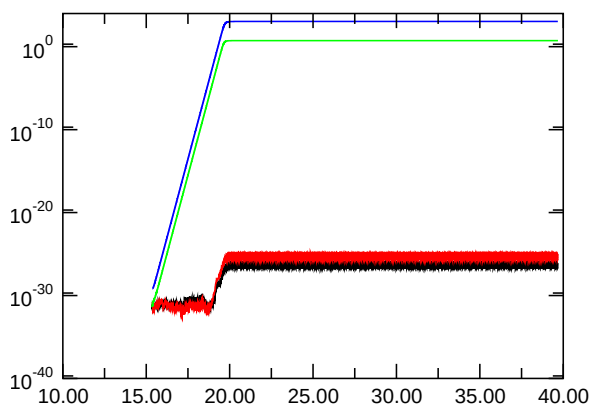
a.e03p01t03r-50000m1n2N2z9.5e4b
 E_{kin}



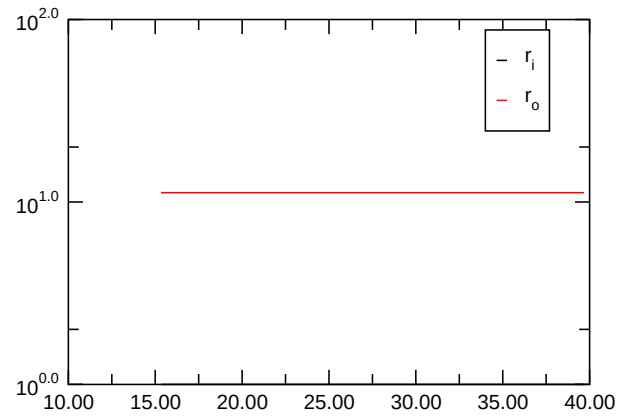
$E_{\text{kin,symm.}}$



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



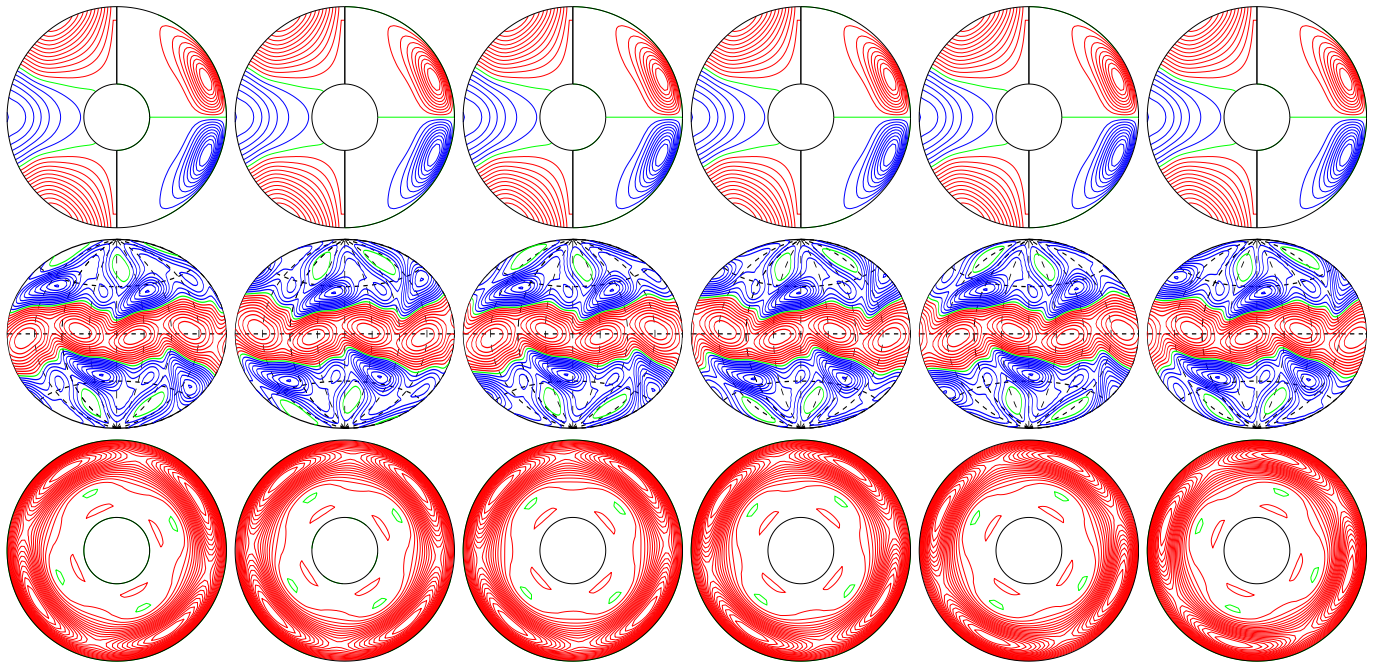
Nusselt Number



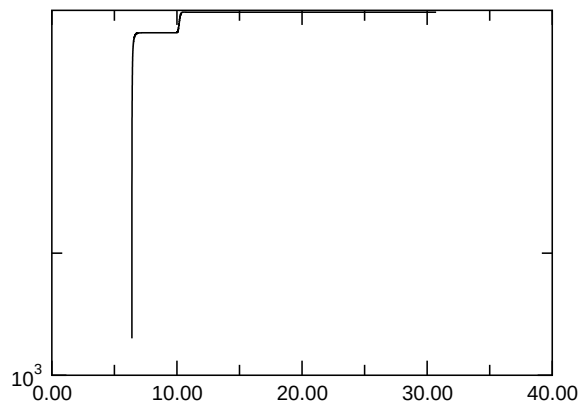
a.e03p01t03r-50000m1n2N2z10e4Y.20

times: 24.32001 25.60001 26.88001 28.16001 29.44001 30.72001

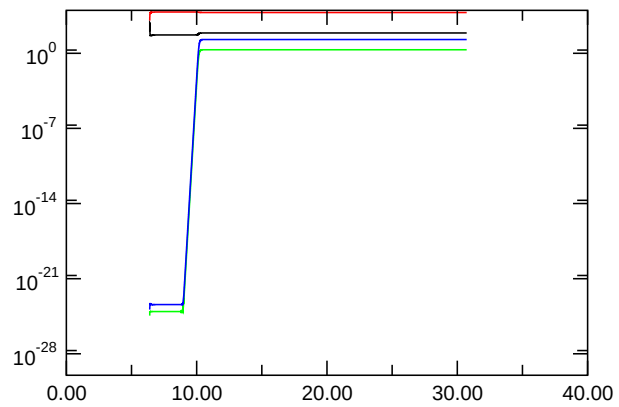
May 7, 2017



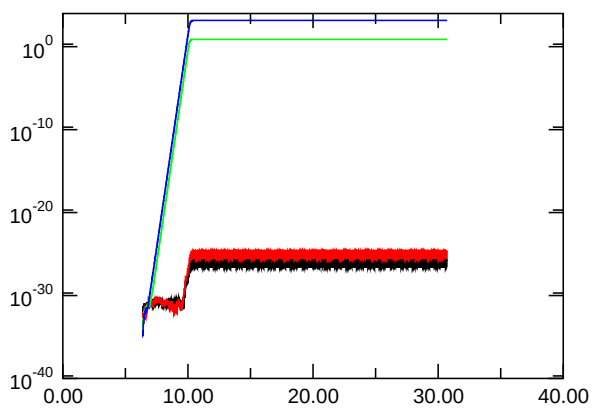
a.e03p01t03r-50000m1n2N2z10e4Y
 E_{kin}



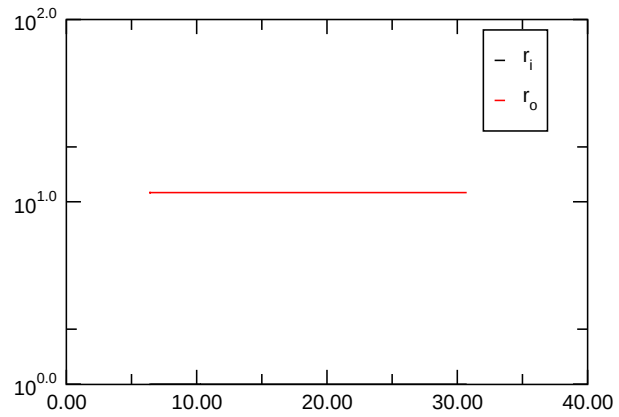
$E_{\text{kin,symm.}}$



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



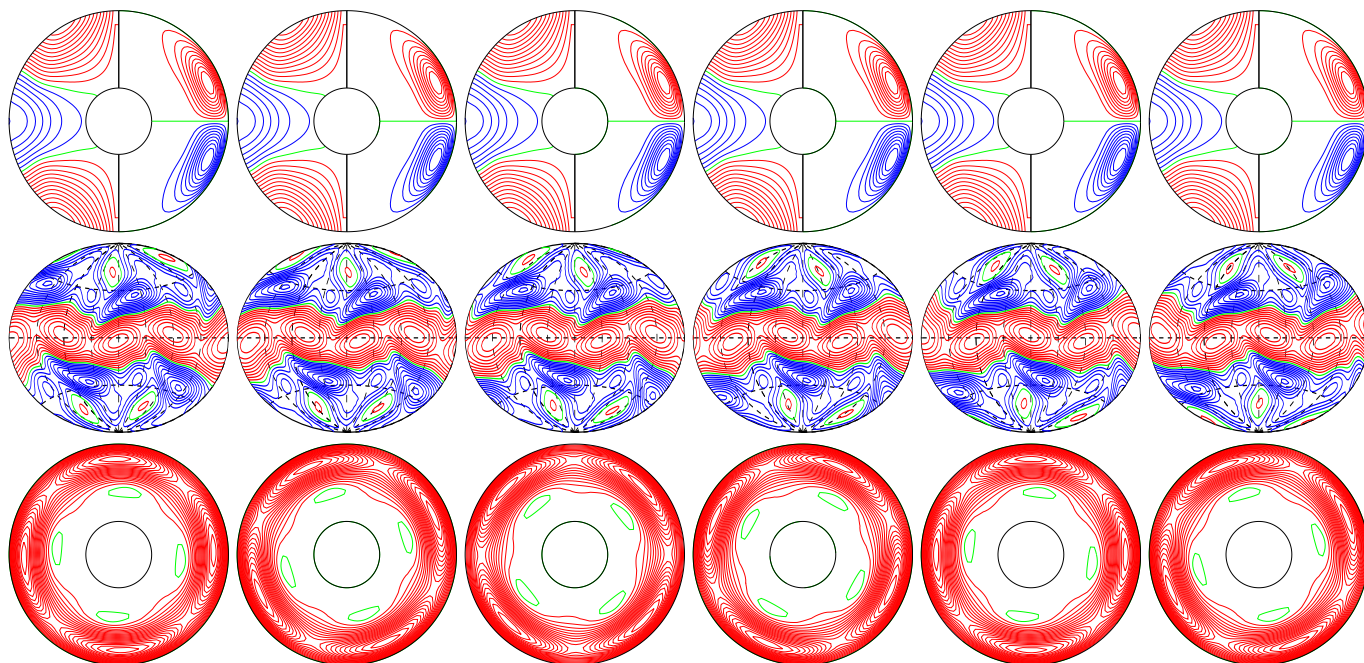
Nusselt Number



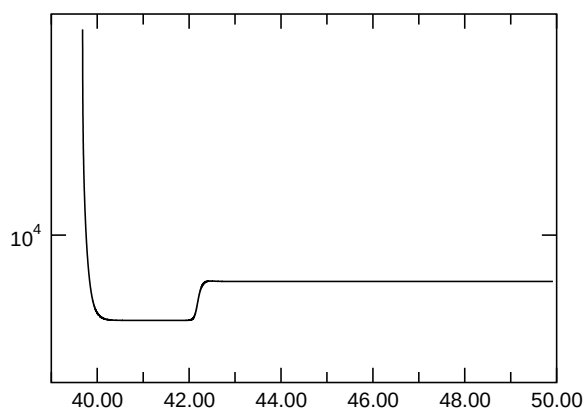
a.e03p01t03r-50000m1n2N2z10.4e4.9

May 7, 2017

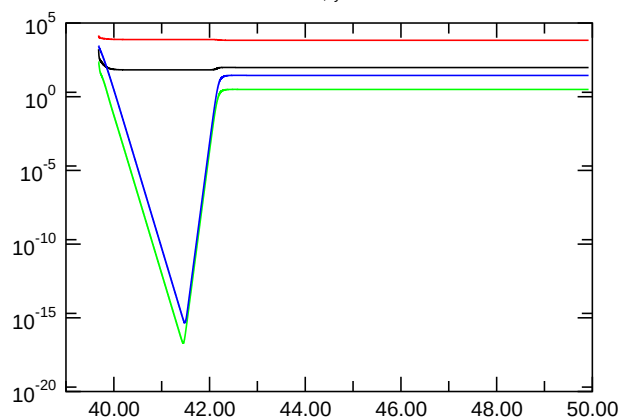
times: 43.52001 44.80001 46.08001 47.36001 48.64001 49.92001



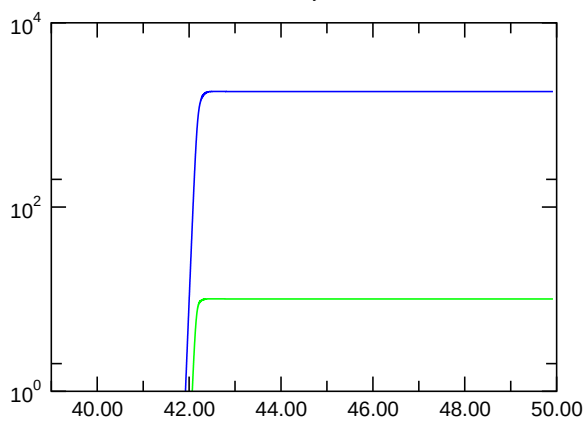
a.e03p01t03r-50000m1n2N2z10.4e4
 E_{kin}



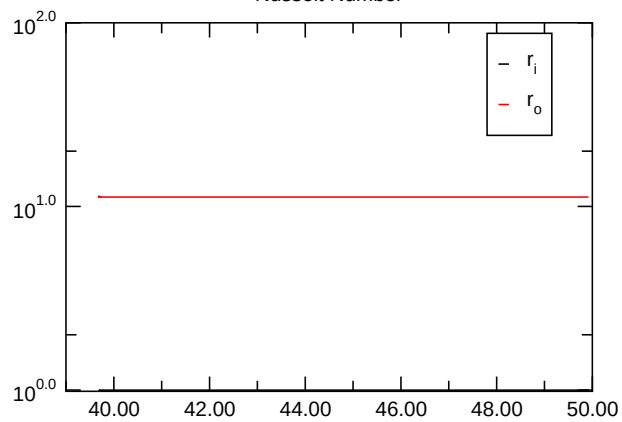
$E_{\text{kin, symm.}}$



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



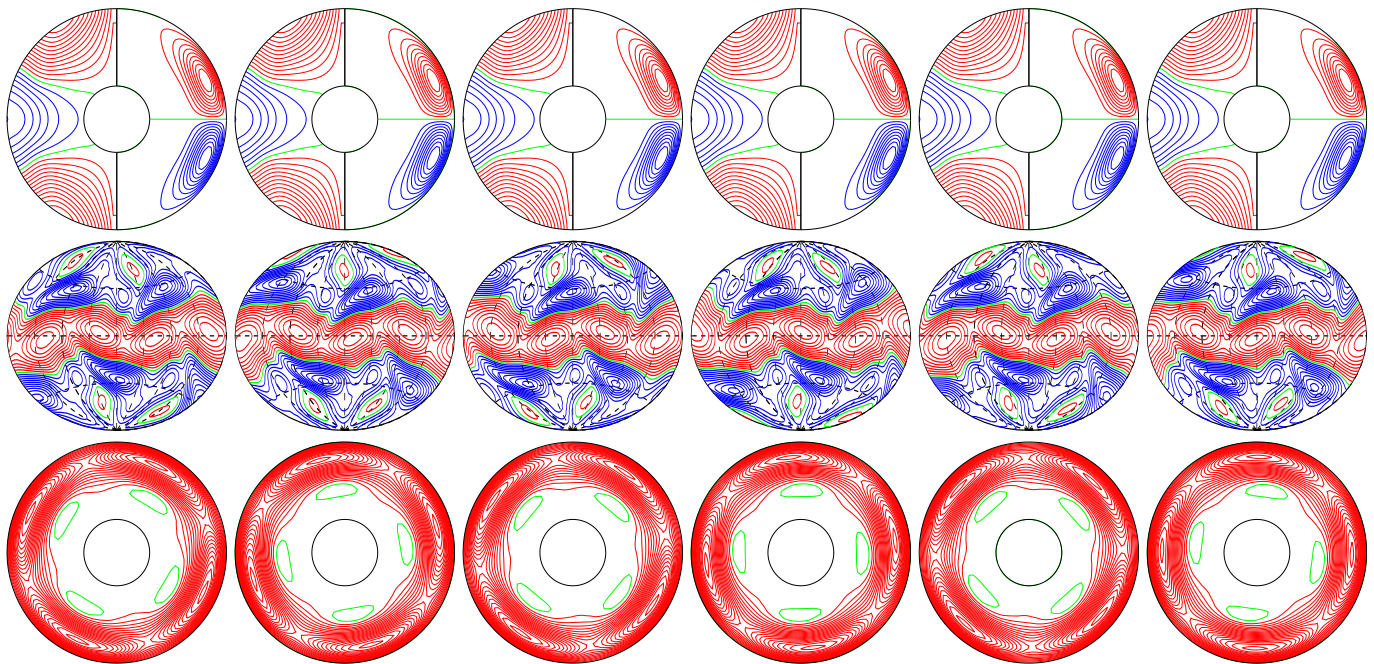
Nusselt Number



a.e03p01t03r-50000m1n2N2z10.8e4.9

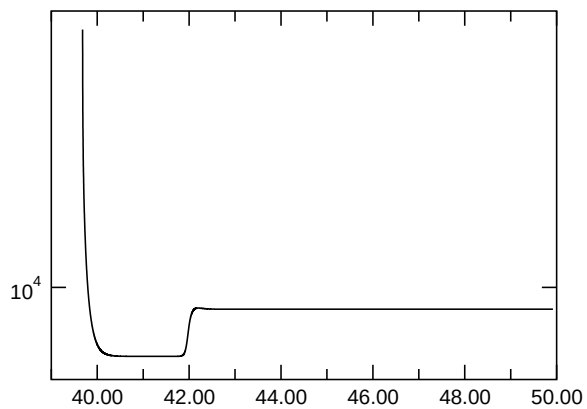
times: 43.52001 44.80001 46.08001 47.36001 48.64001 49.92001

May 7, 2017

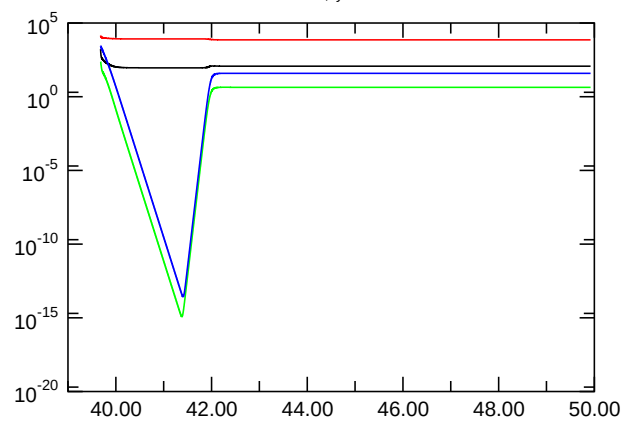


a.e03p01t03r-50000m1n2N2z10.8e4

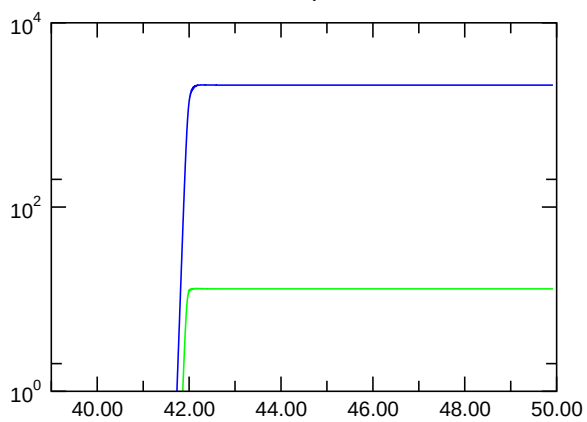
E_{kin}



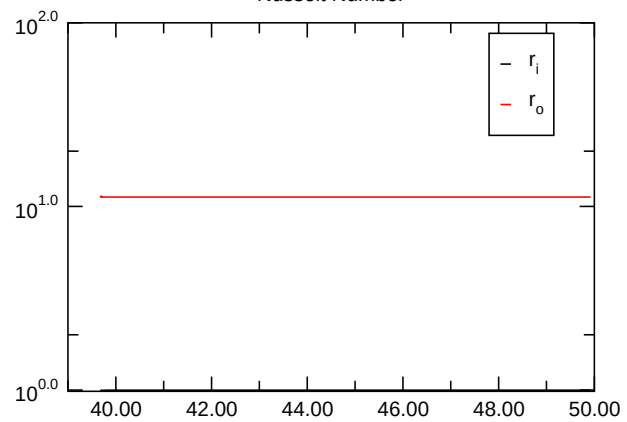
$E_{\text{kin,symm.}}$



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



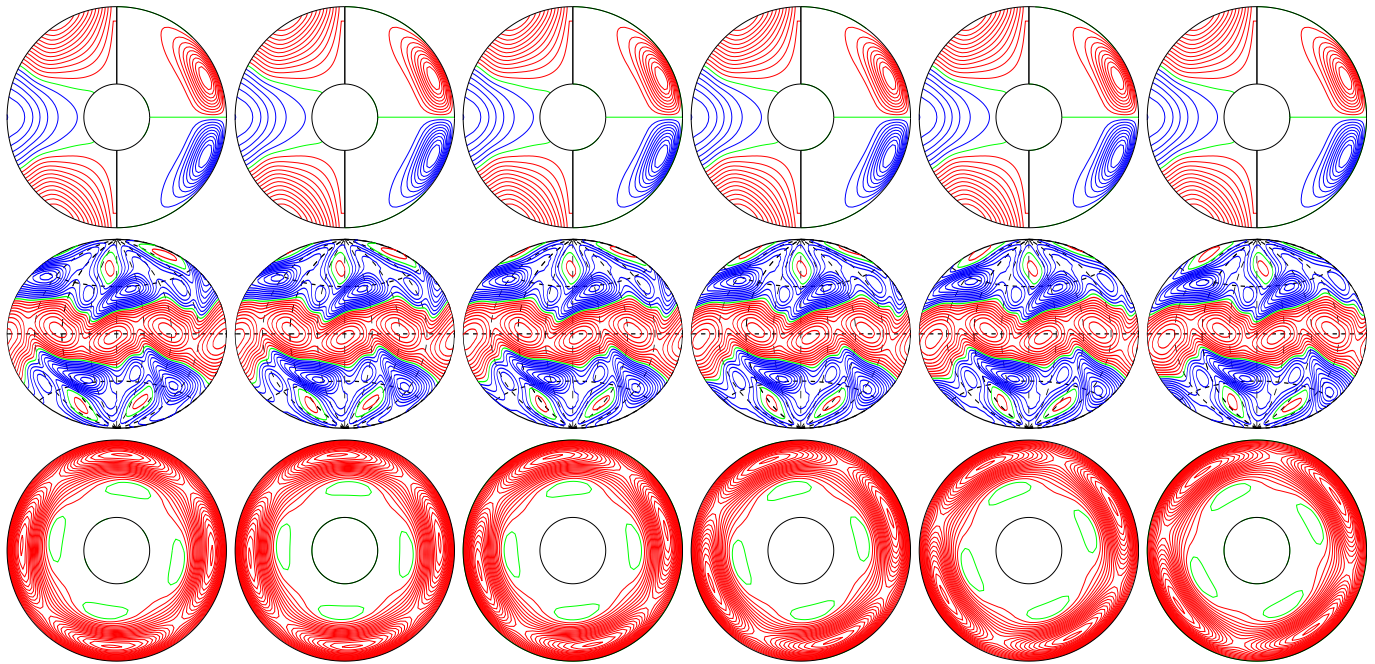
Nusselt Number



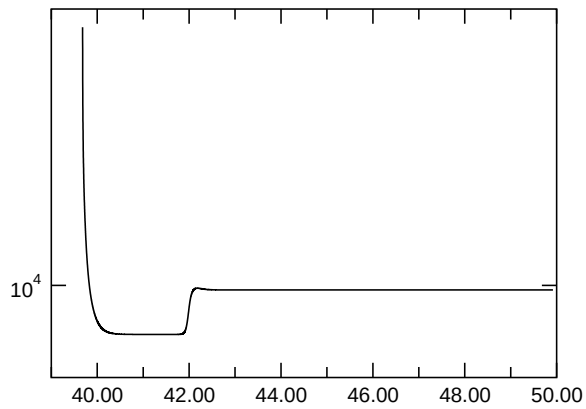
a.e03p01t03r-50000m1n2N2z11e4.9

times: 43.52001 44.80001 46.08001 47.36001 48.64001 49.92001

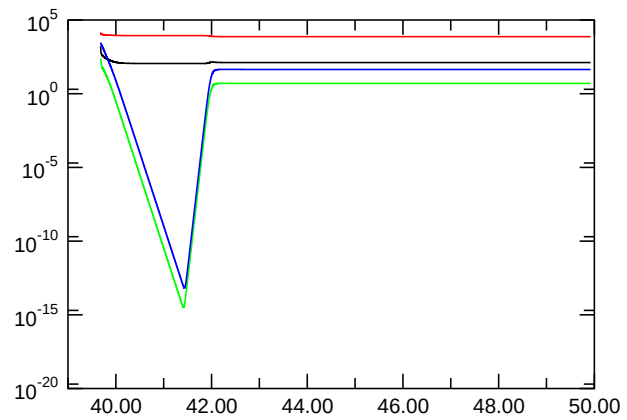
May 7, 2017



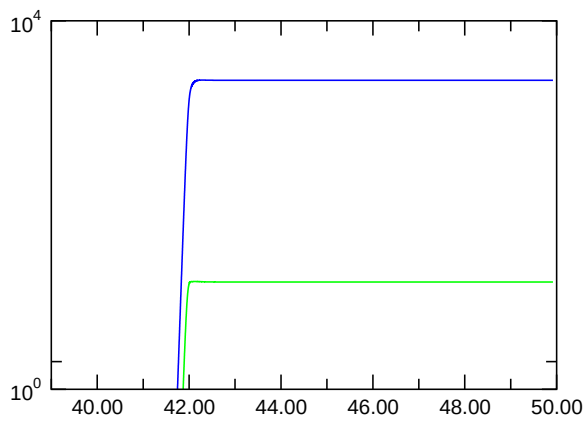
a.e03p01t03r-50000m1n2N2z11e4
 E_{kin}



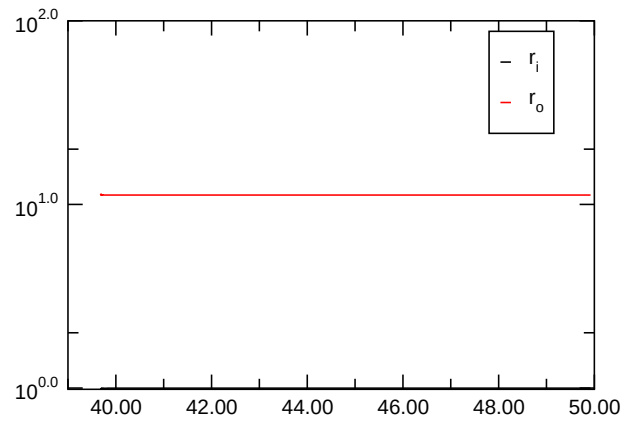
$E_{\text{kin,symm.}}$



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



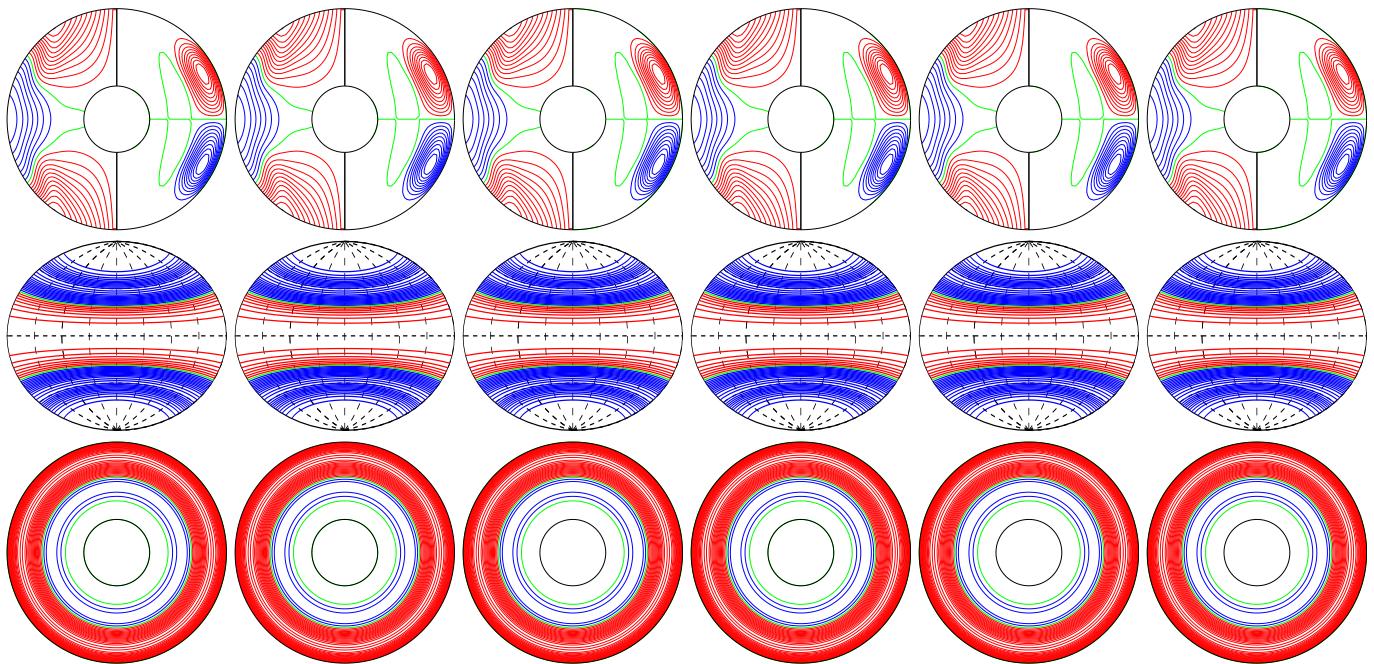
Nusselt Number



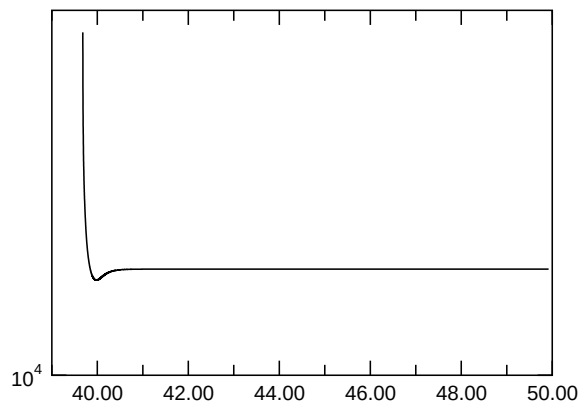
a.e03p01t03r-50000m1n2N2z12e4.9

times: 43.52001 44.80001 46.08001 47.36001 48.64001 49.92001

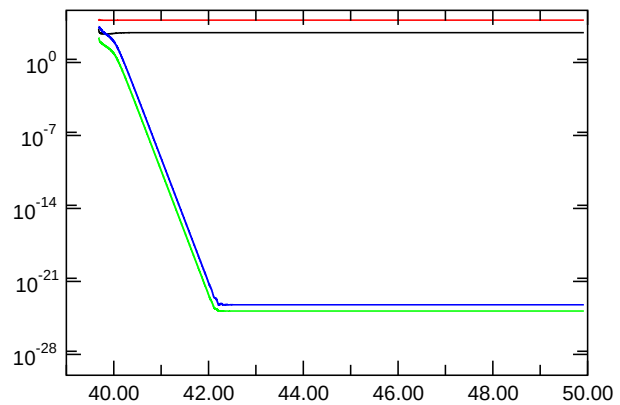
May 7, 2017



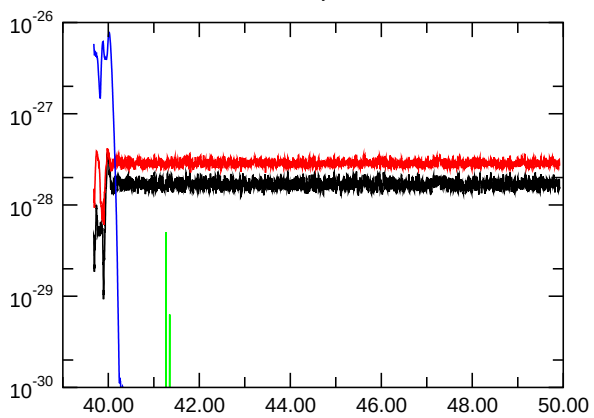
a.e03p01t03r-50000m1n2N2z12e4
 E_{kin}



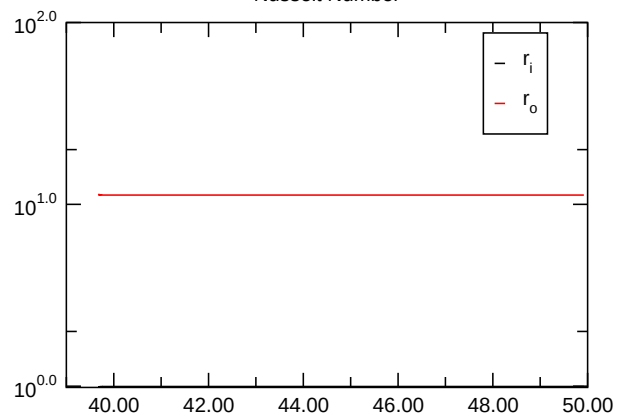
$E_{\text{kin,symm.}}$



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



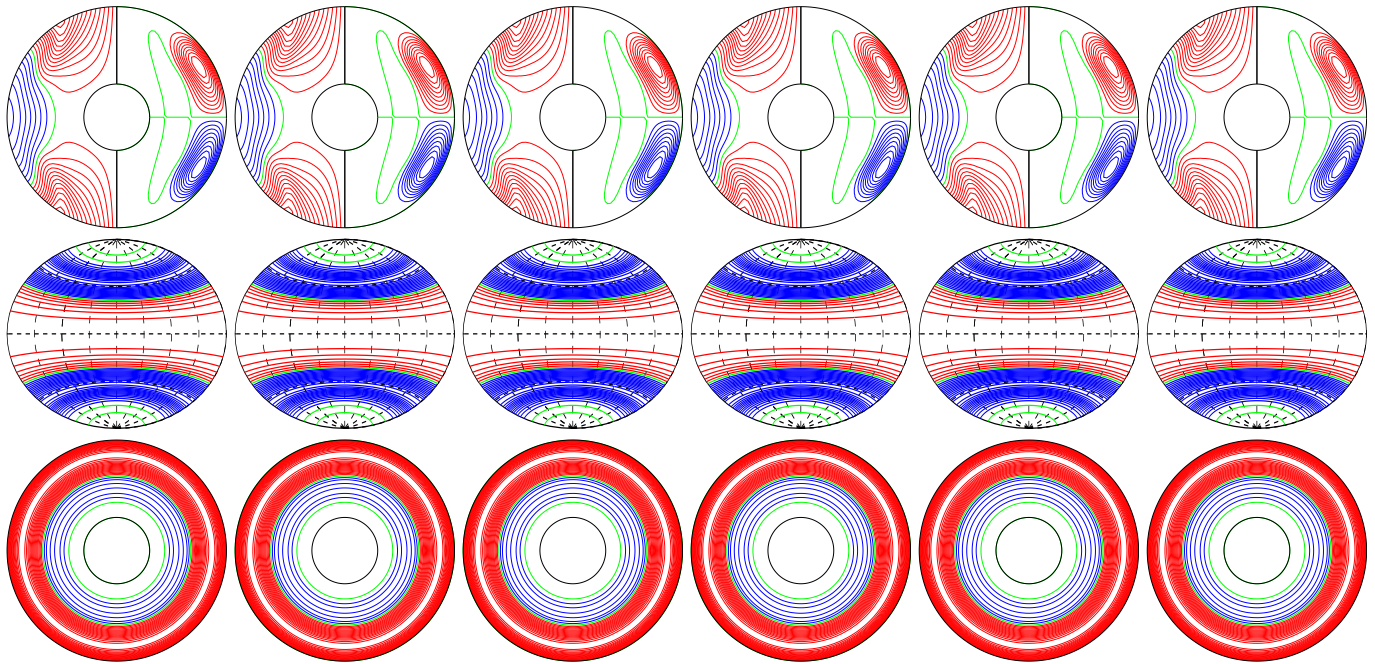
Nusselt Number



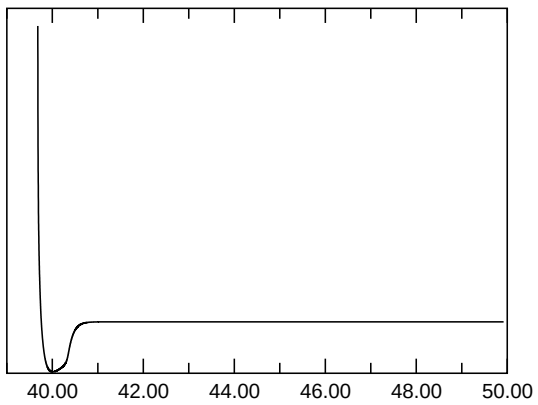
a.e03p01t03r-50000m1n2N2z13e4.9

times: 43.52001 44.80001 46.08001 47.36001 48.64001 49.92001

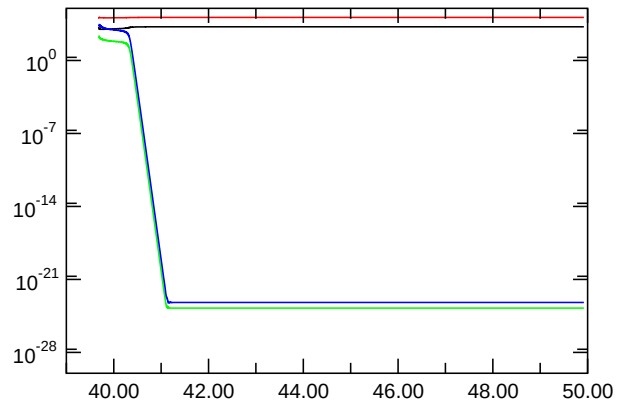
May 7, 2017



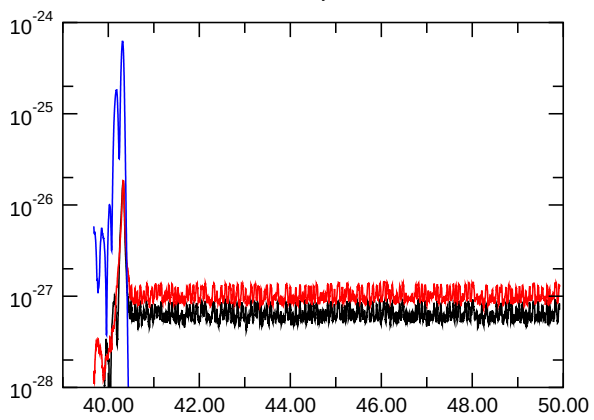
a.e03p01t03r-50000m1n2N2z13e4
 E_{kin}



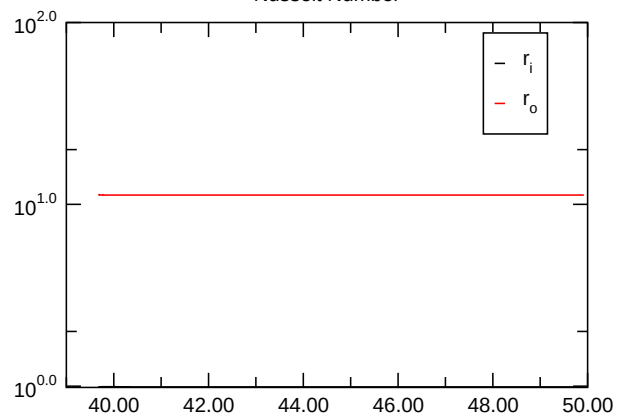
$E_{\text{kin,symm.}}$



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

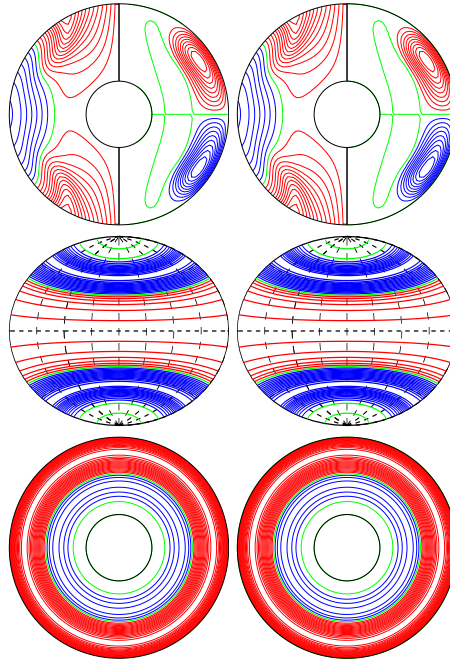


Nusselt Number

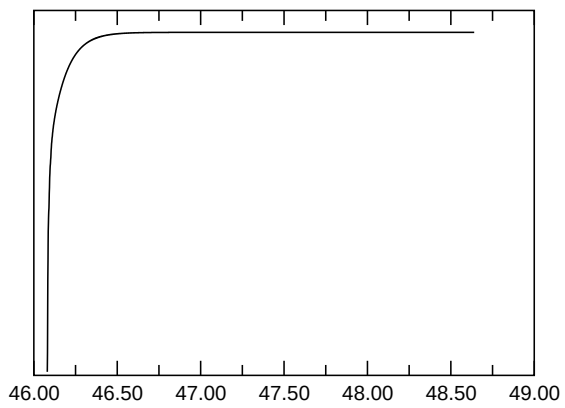


a.e03p01t03r-50000m1n2N2z14e4b.3
times: 47.36001 48.64001

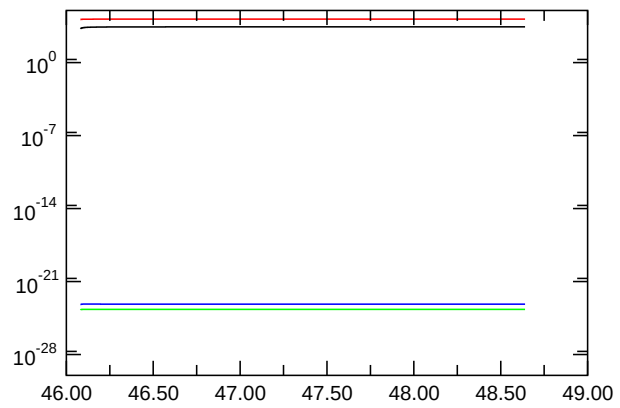
May 7, 2017



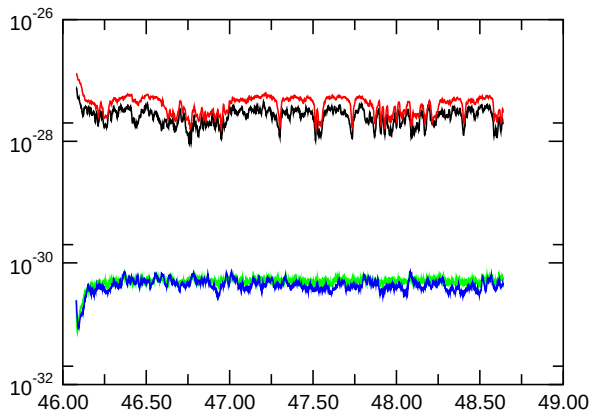
a.e03p01t03r-50000m1n2N2z14e4b
 E_{kin}



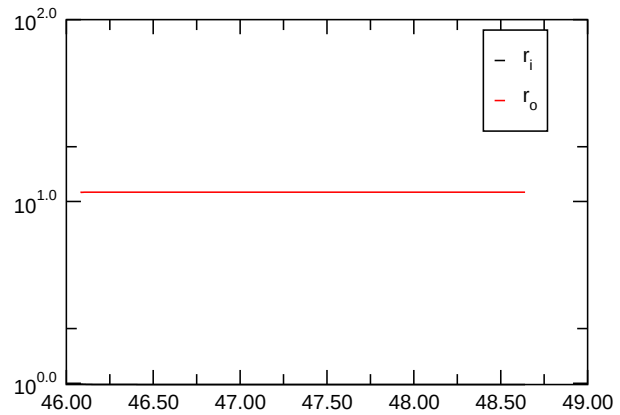
$E_{\text{kin,symm.}}$



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



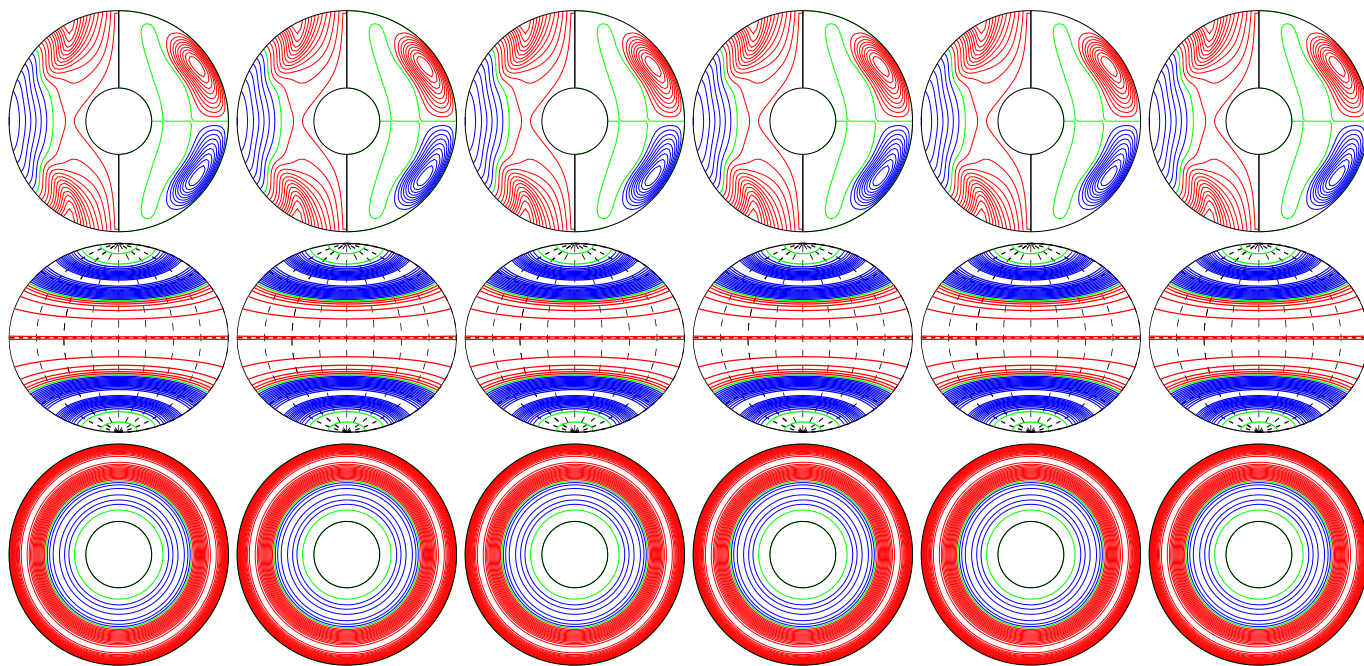
Nusselt Number



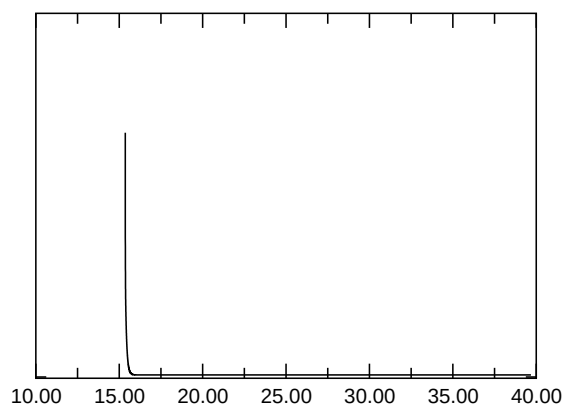
a.e03p01t03r-50000m1n2N2z15e4a.20

May 7, 2017

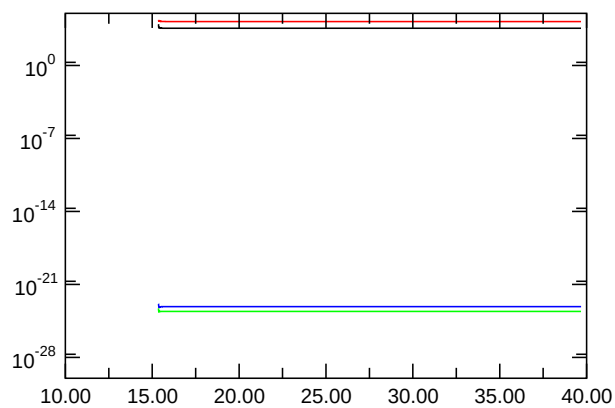
times: 33.28001 34.56001 35.84001 37.12001 38.40001 39.68001



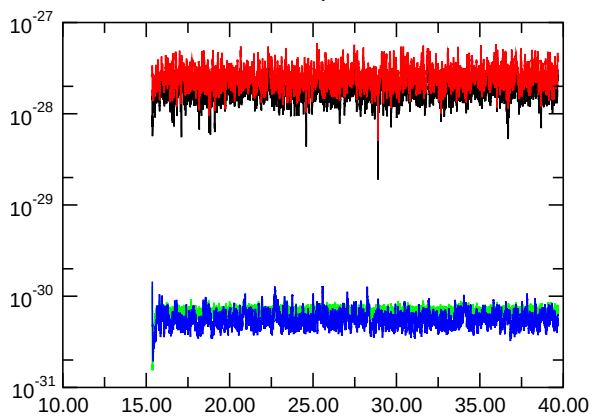
a.e03p01t03r-50000m1n2N2z15e4a
 E_{kin}



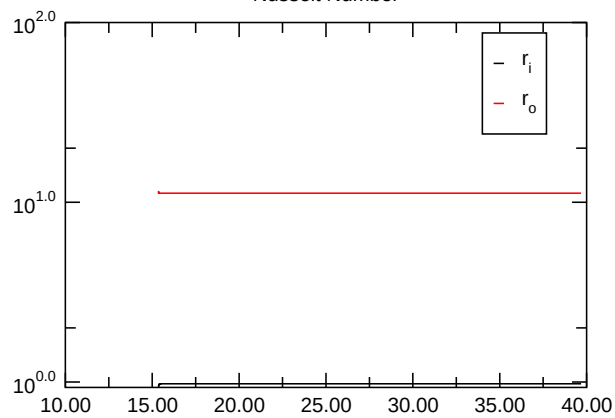
$E_{\text{kin,symm.}}$



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



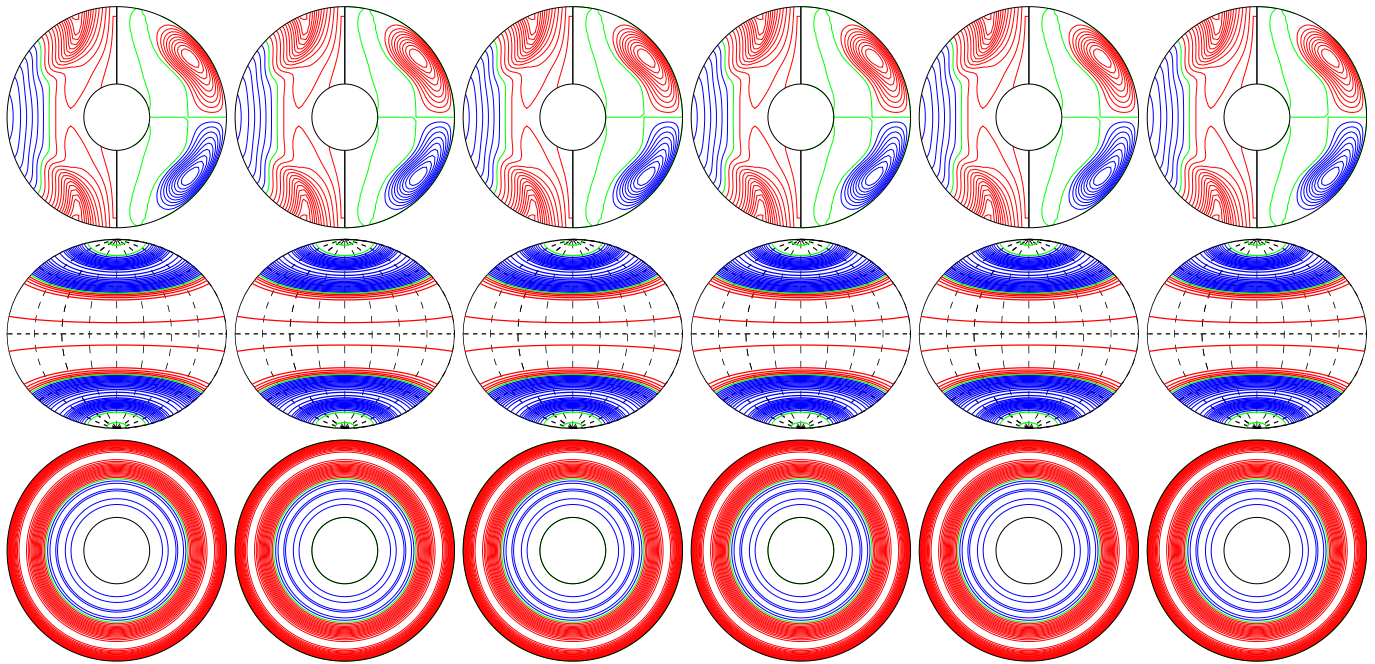
Nusselt Number



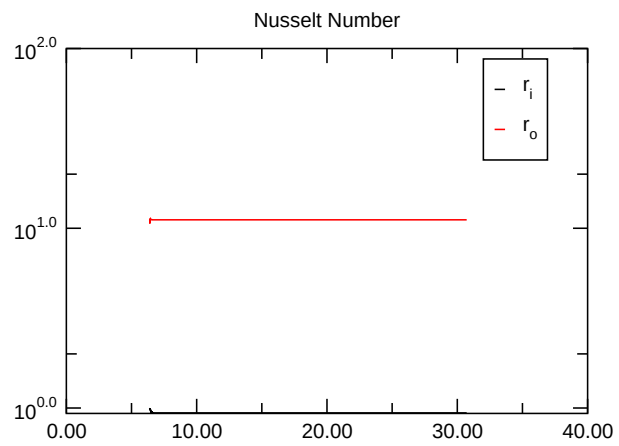
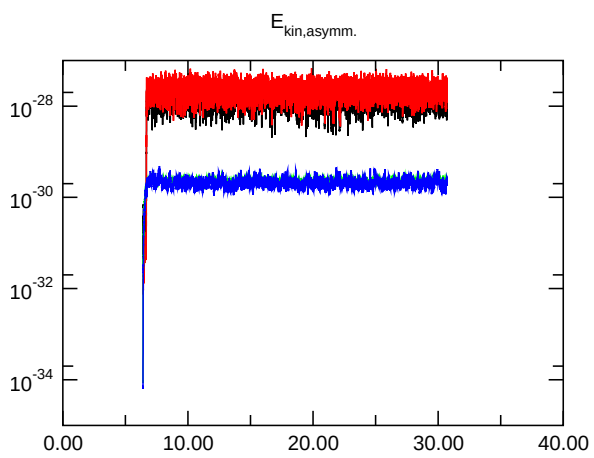
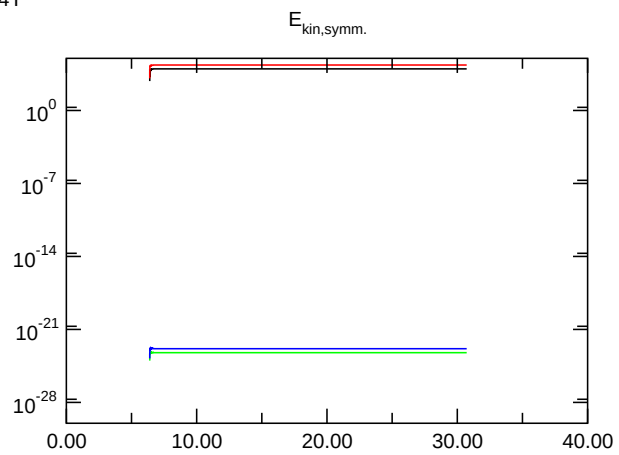
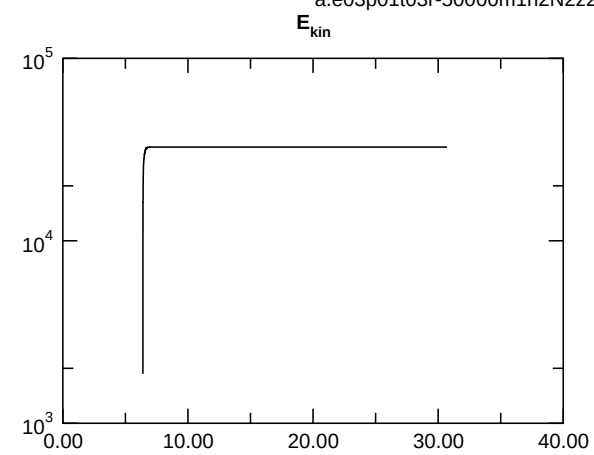
a.e03p01t03r-50000m1n2N2z20e4Y.20

times: 24.32001 25.60001 26.88001 28.16001 29.44001 30.72001

May 7, 2017

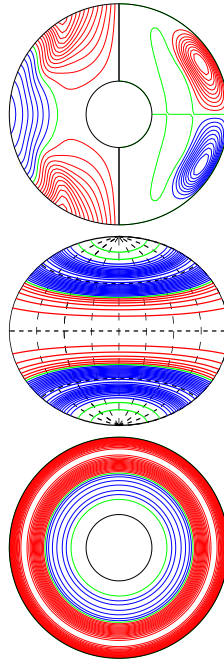


a.e03p01t03r-50000m1n2N2z20e4Y

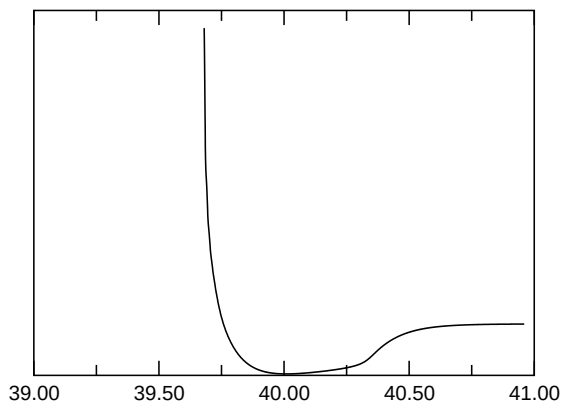


a.e03p01t03r-50000m1n2N2z13e4a.2
times: 40.96001

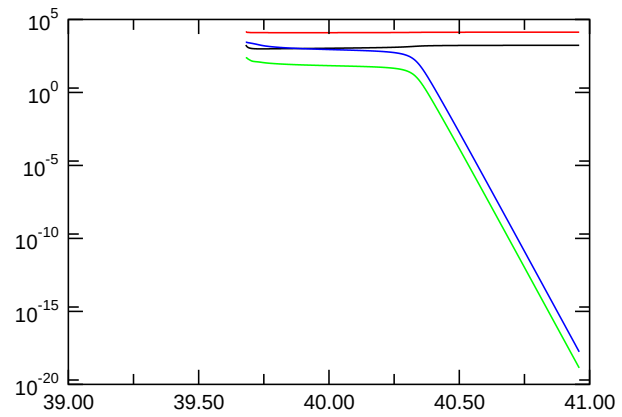
May 7, 2017



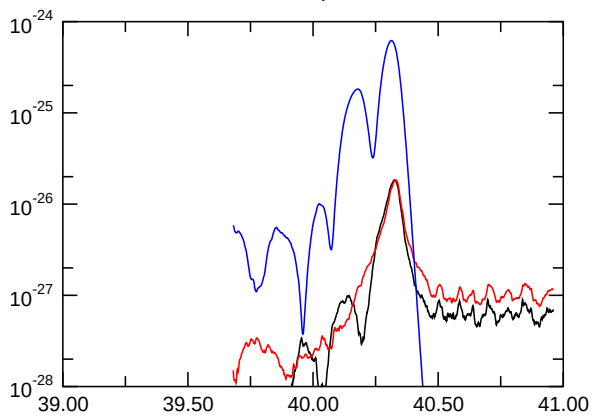
a.e03p01t03r-50000m1n2N2z13e4a
 E_{kin}



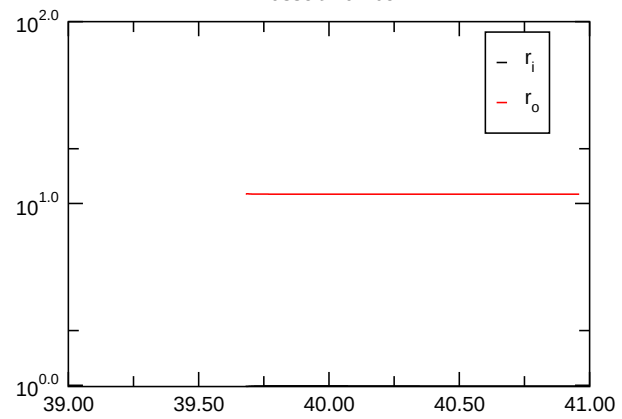
$E_{\text{kin,symm.}}$

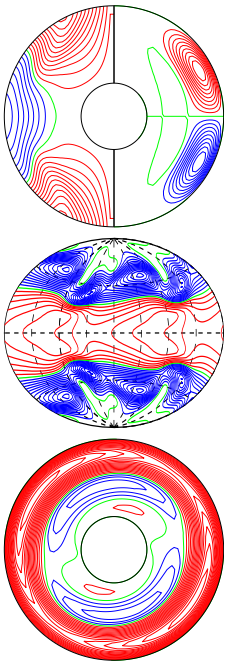


$E_{\text{kin,asymm.}}$

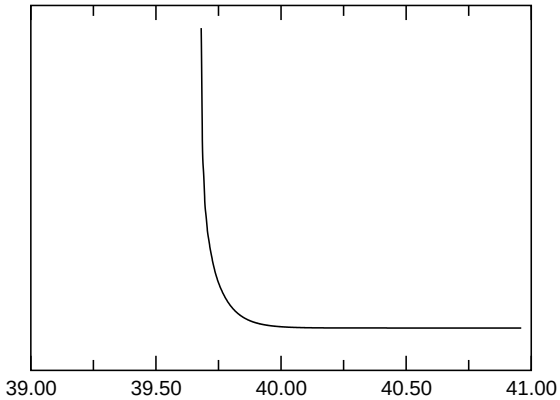


Nusselt Number

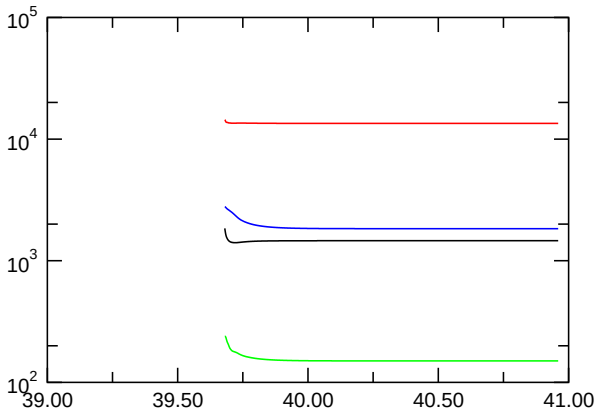




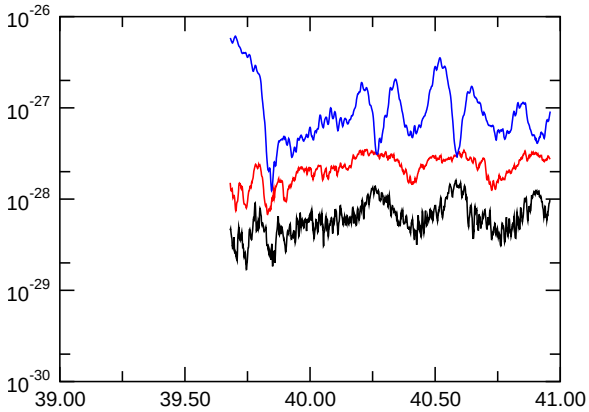
a.e03p01t03r-50000m1n2N2z14e4a
 E_{kin}



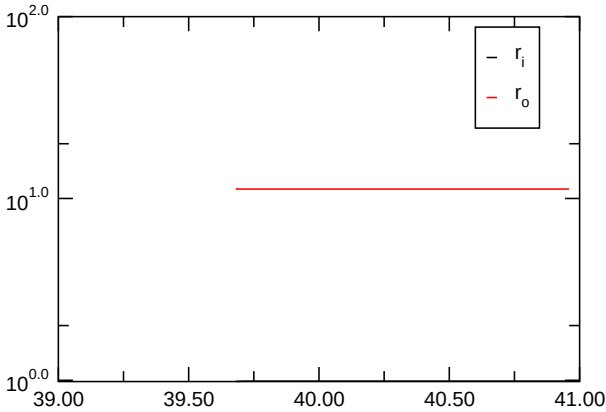
$E_{\text{kin,symm.}}$



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



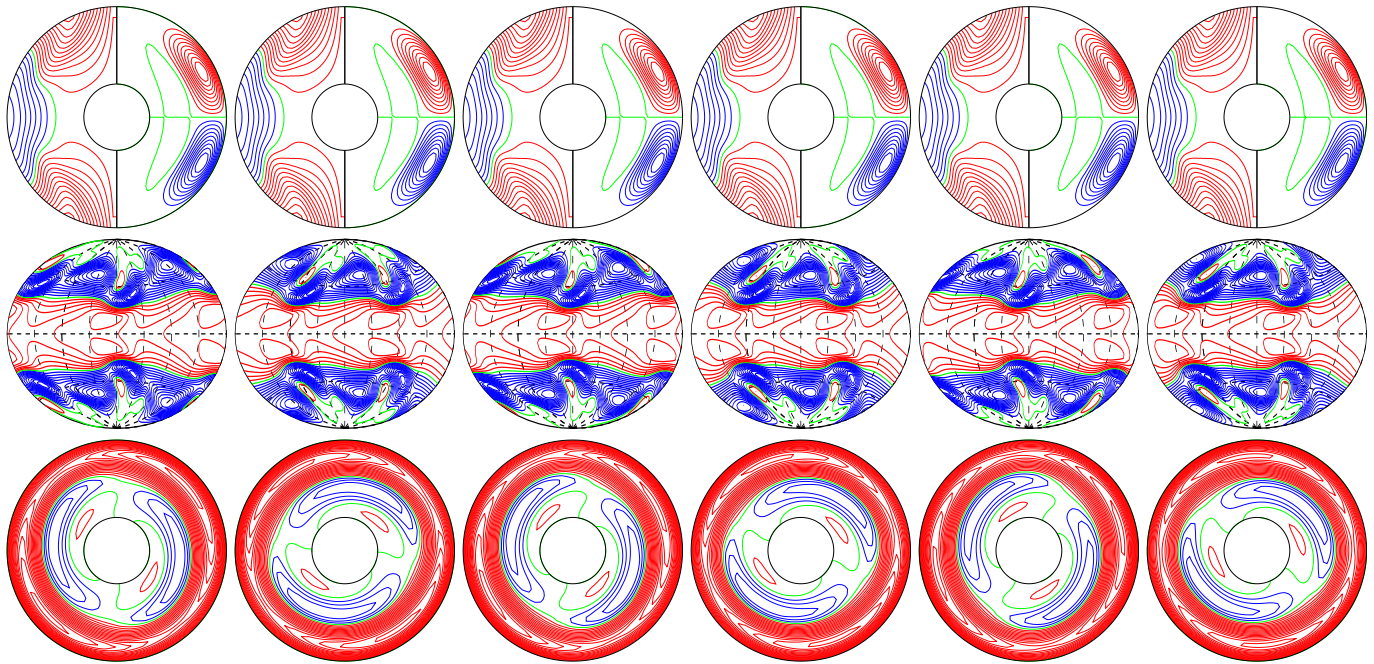
Nusselt Number



a.e03p01t03r-50000m1n2N2z15e4b.20

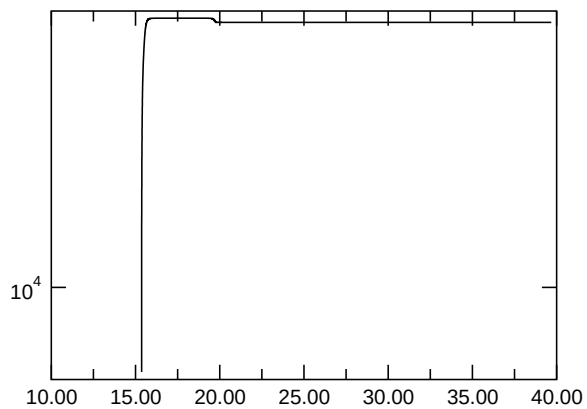
May 7, 2017

times: 33.28001 34.56001 35.84001 37.12001 38.40001 39.68001

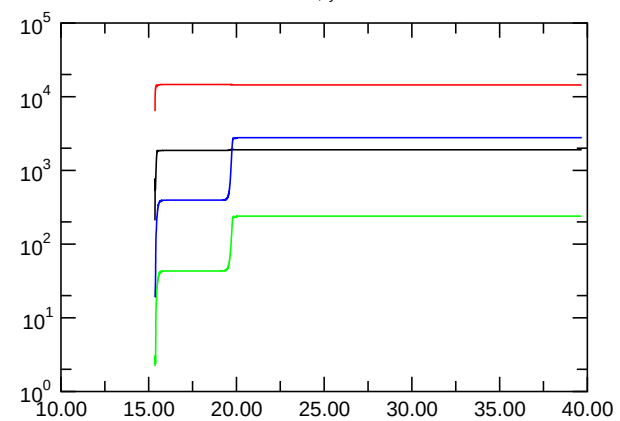


a.e03p01t03r-50000m1n2N2z15e4b

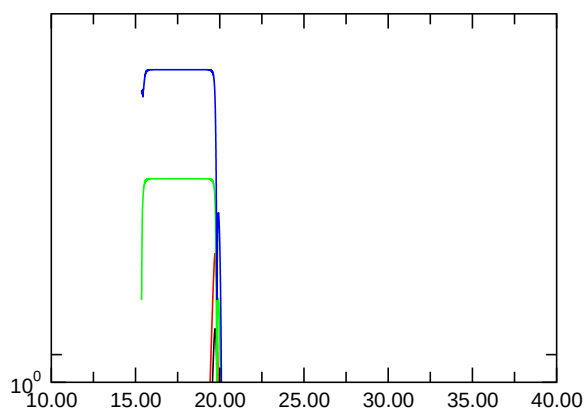
E_{kin}



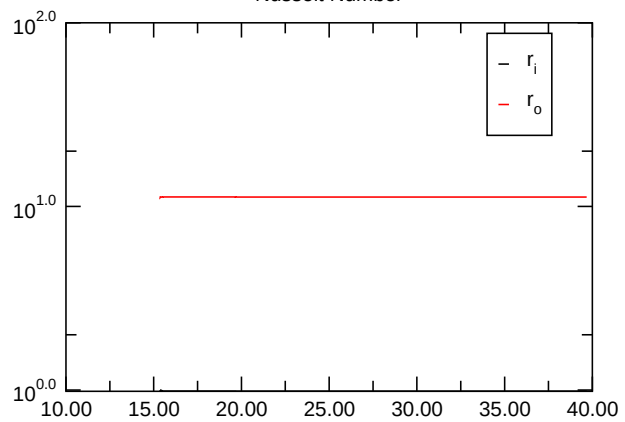
$E_{\text{kin,symm.}}$



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



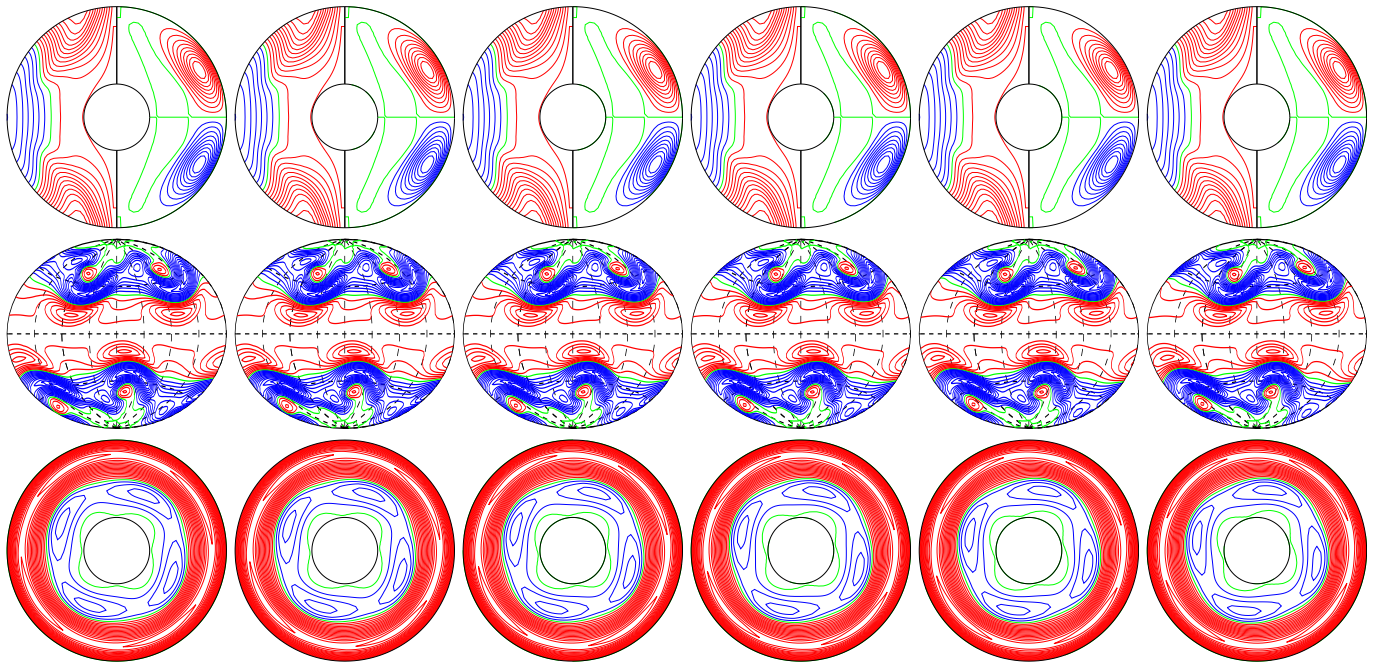
Nusselt Number



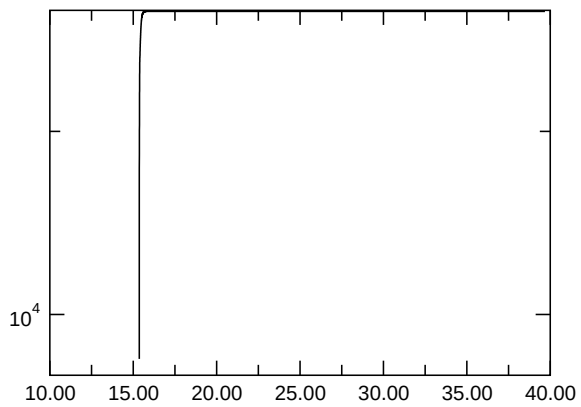
a.e03p01t03r-50000m1n2N2z20e4b.20

times: 33.28001 34.56001 35.84001 37.12001 38.40001 39.68001

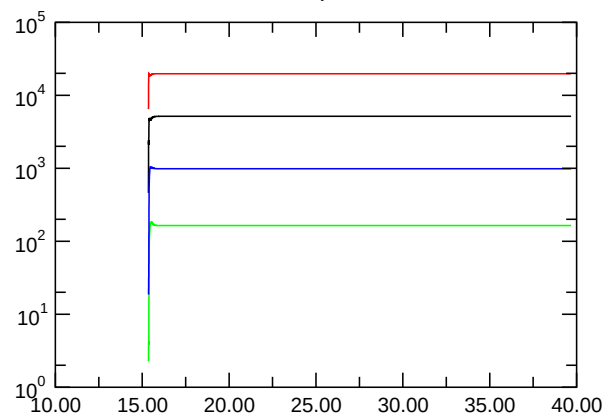
May 7, 2017



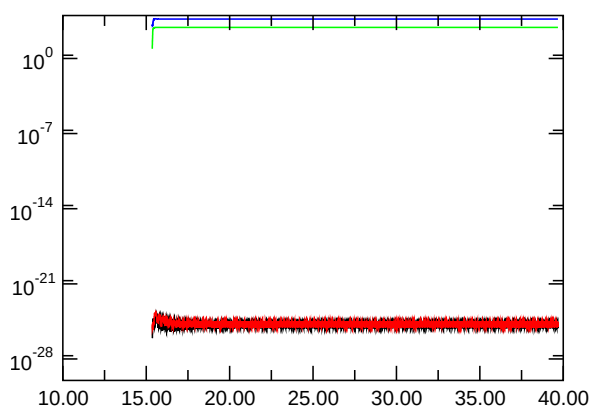
a.e03p01t03r-50000m1n2N2z20e4b
 E_{kin}



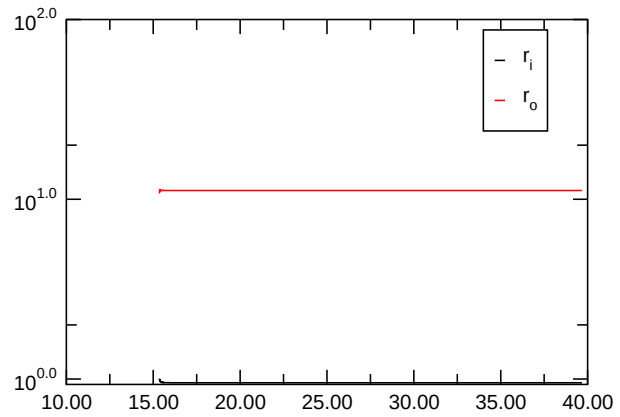
$E_{\text{kin,symm.}}$



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

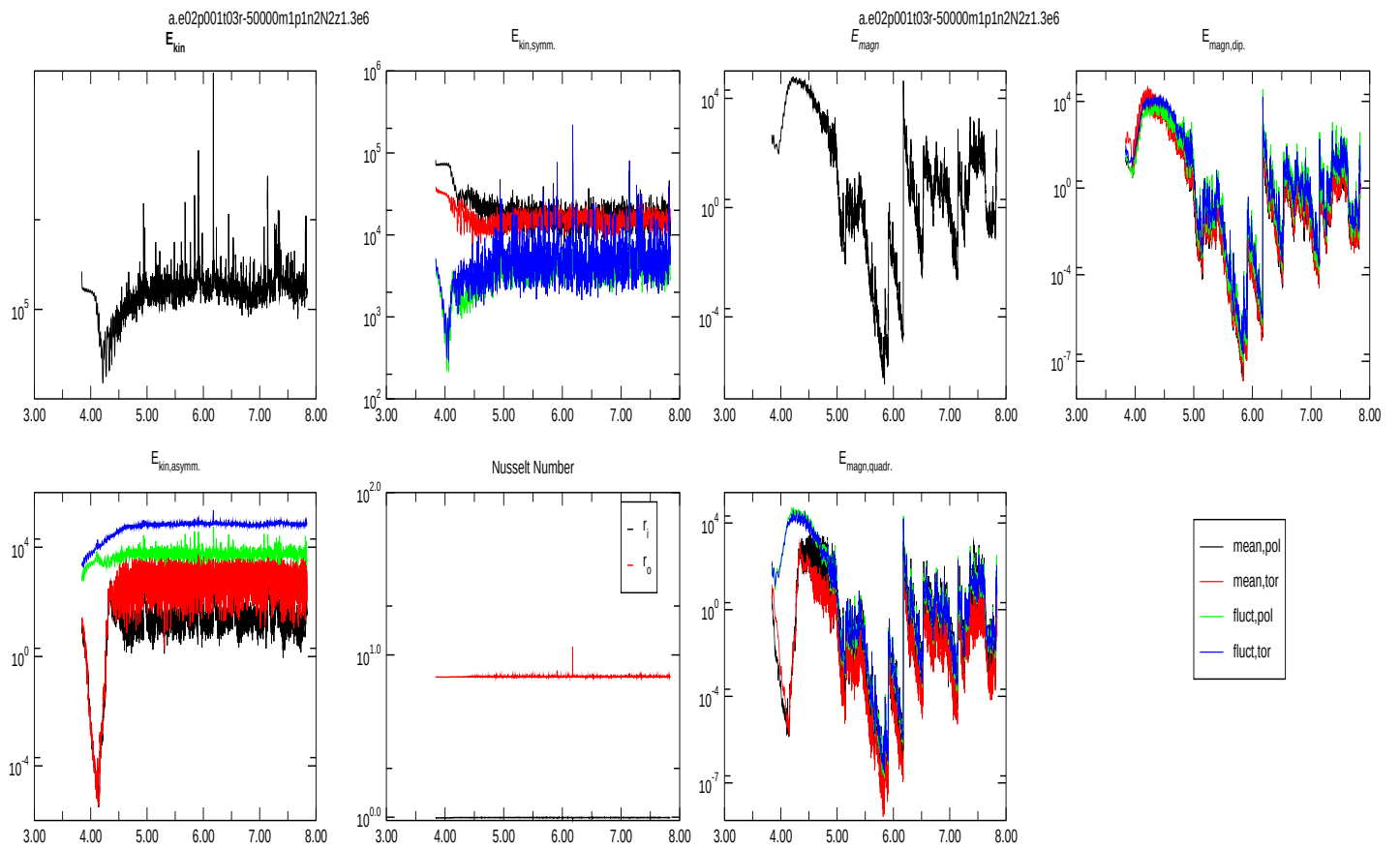
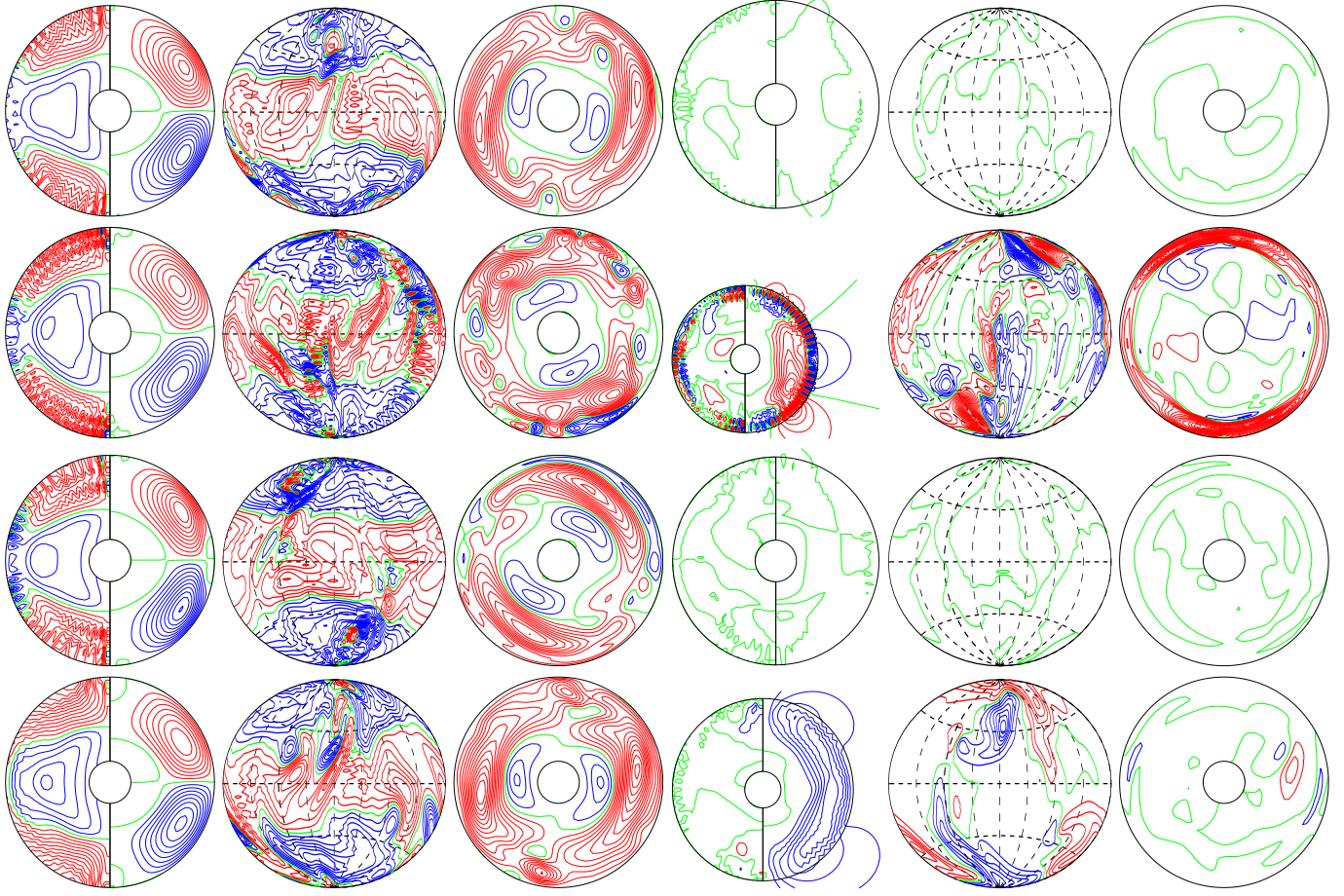


Nusselt Number



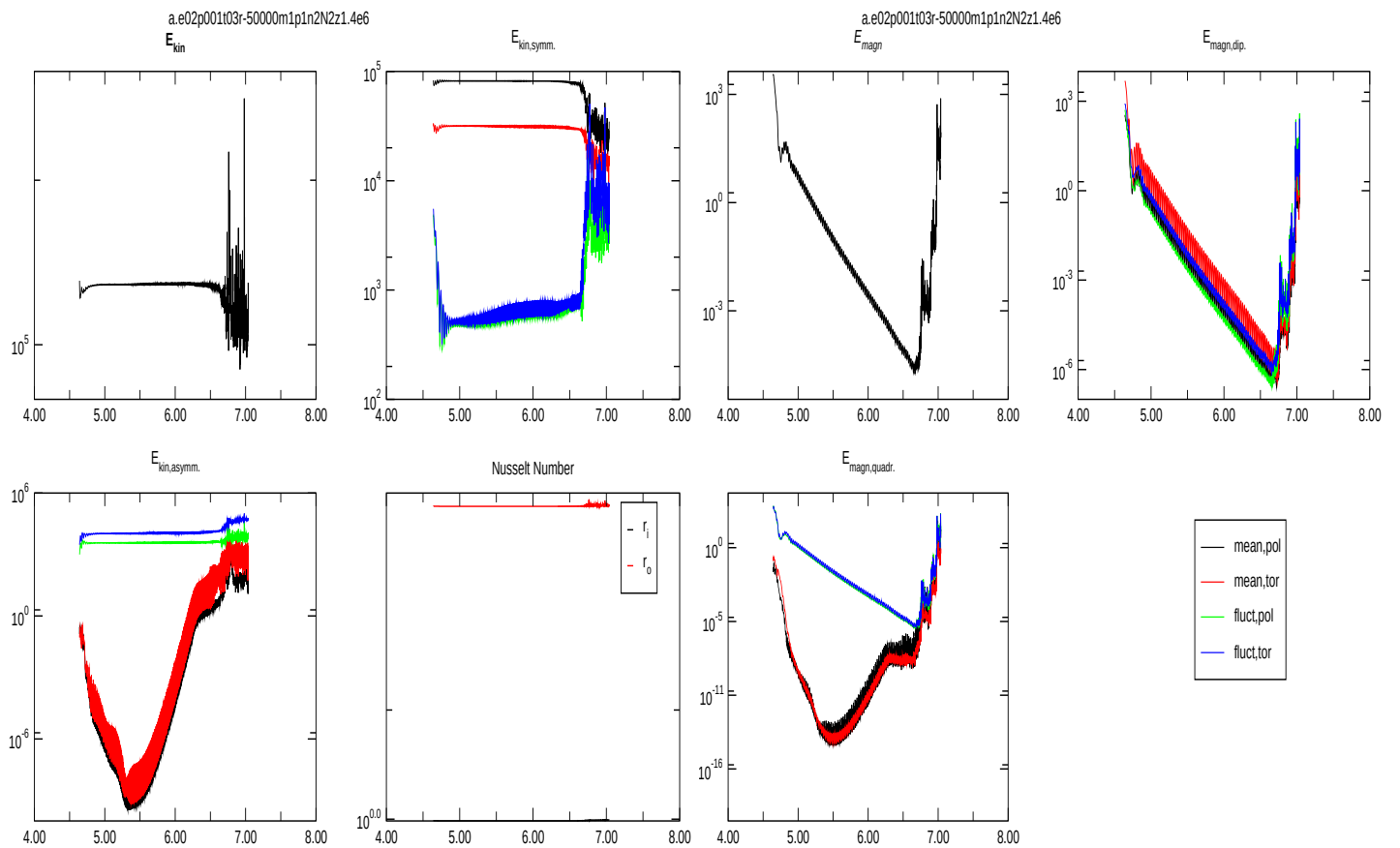
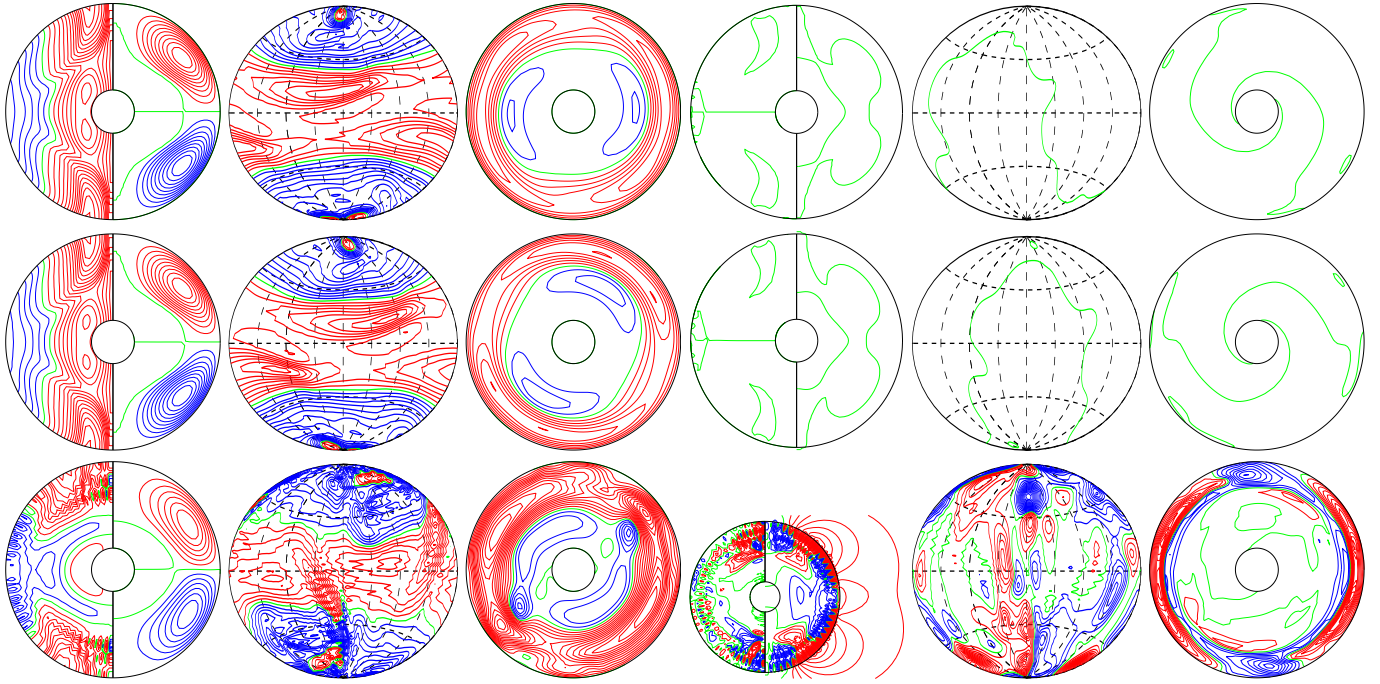
a.e02p001t03r-50000m1p1n2N2z1.3e6
times: 5.440005 6.240006 7.040007 7.840008

May 7, 2017



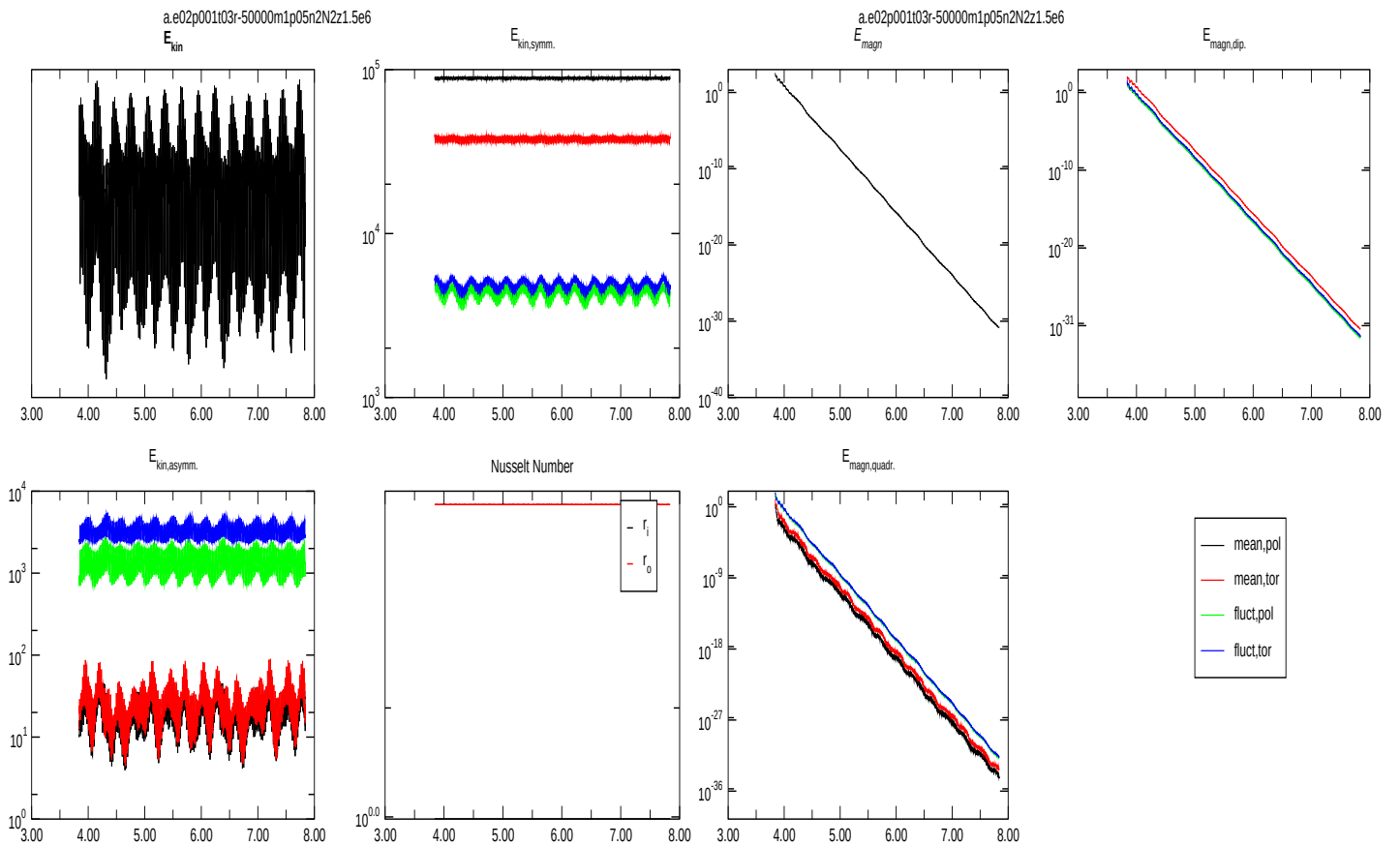
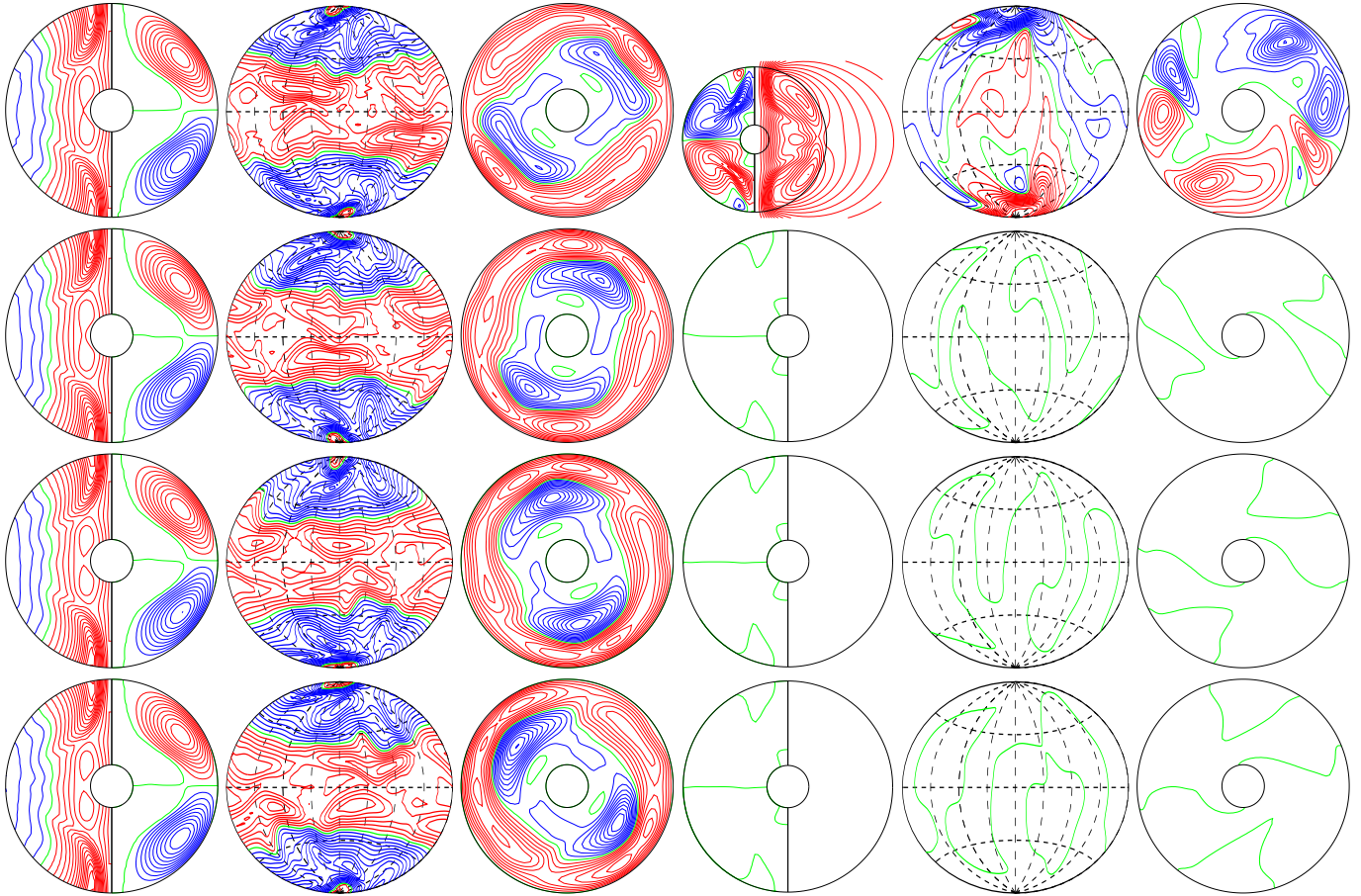
a.e02p001t03r-50000m1p1n2N2z1.4e6.4
times: 5.440005 6.240006 7.040007

May 7, 2017



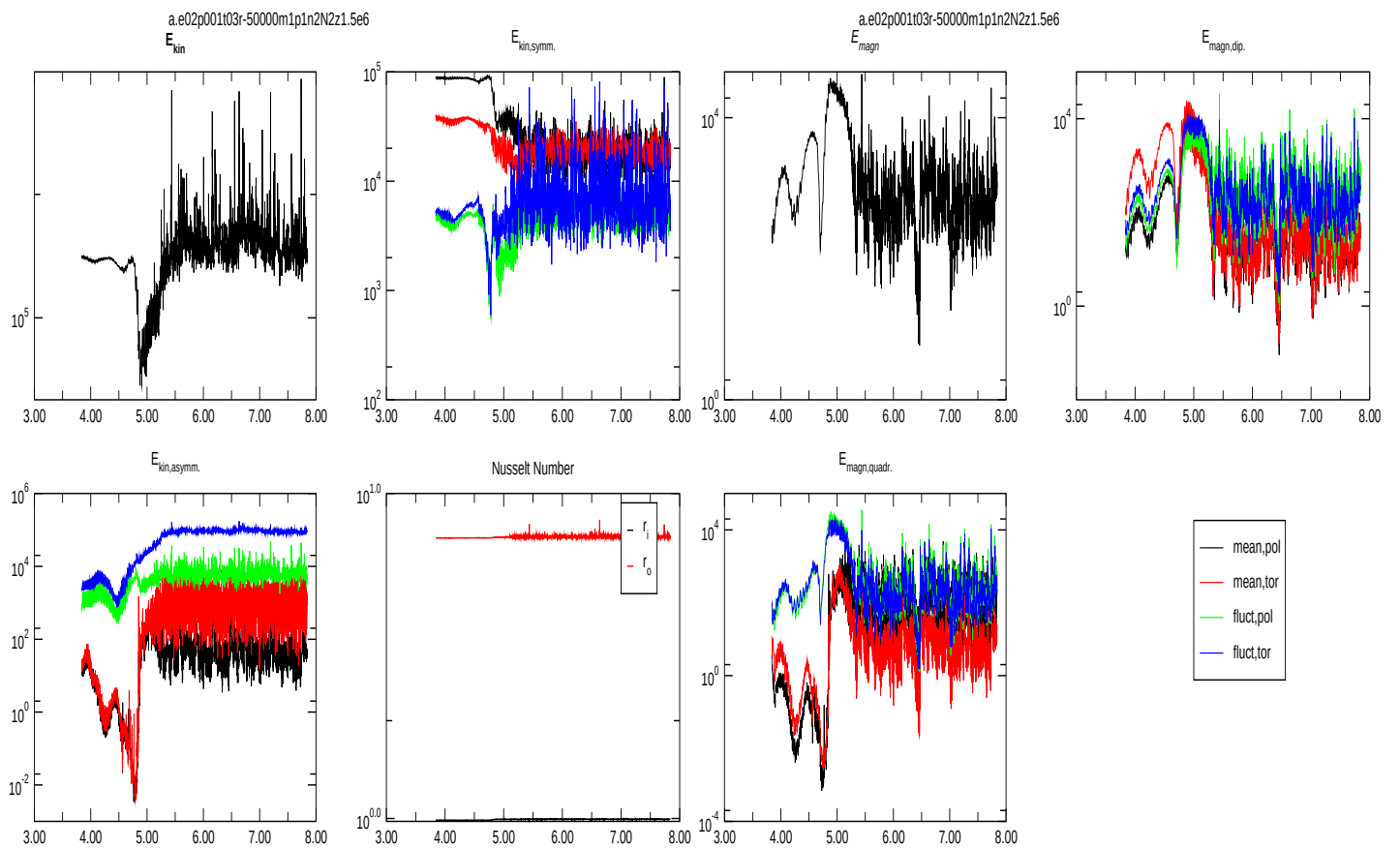
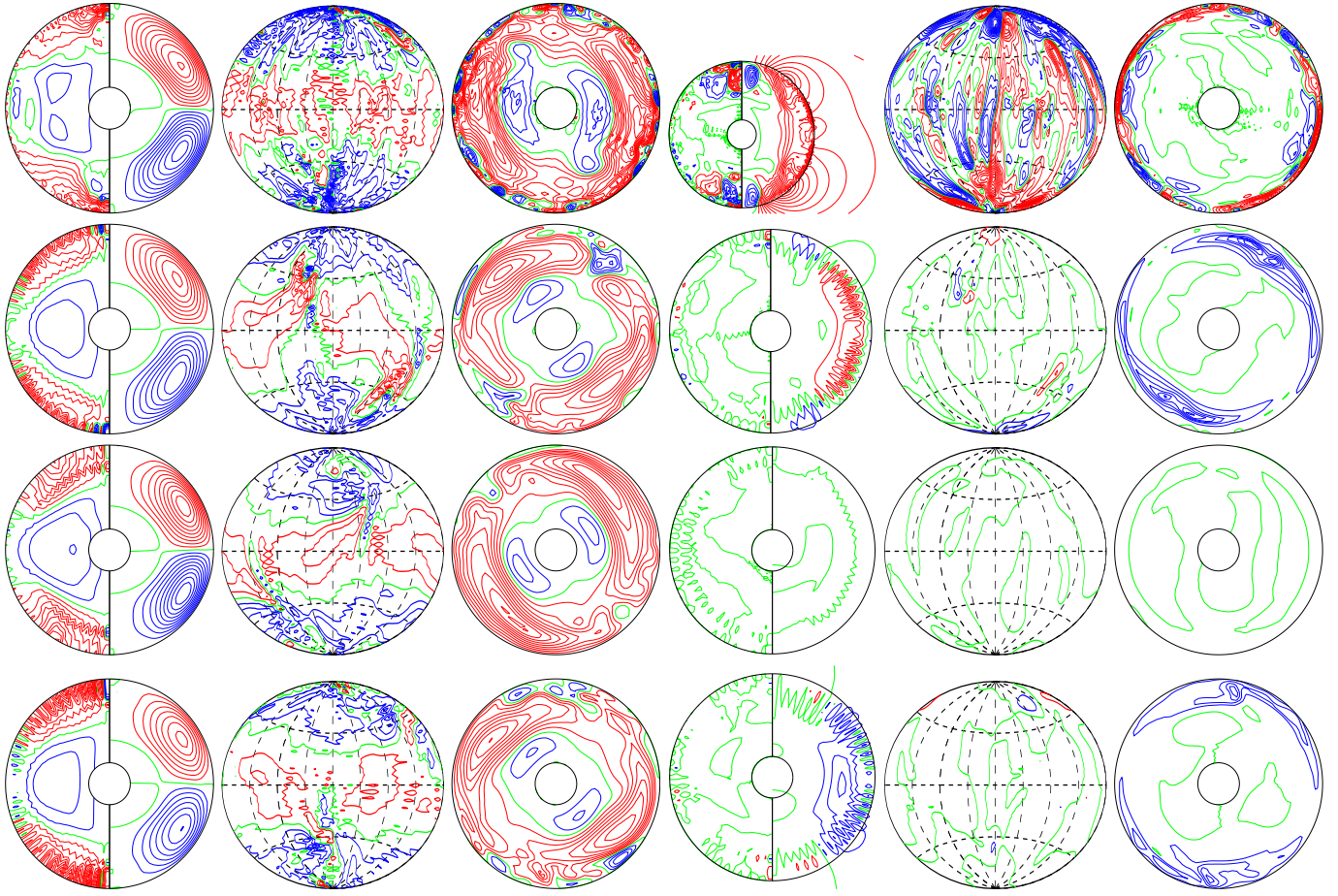
a.e02p001t03r-50000m1p05n2N2z1.5e6.6
times: 5.440005 6.240006 7.040007 7.840008

May 7, 2017



a.e02p001t03r-50000m1p1n2N2z1.5e6.6
times: 5.440005 6.240006 7.040007 7.840008

May 7, 2017



a.e02p001t03r-50000m1p1n2N2z1.8e6.2
times: 2.080002

May 7, 2017

