

CCP one layer (64 cubed)

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In [5]: run ransX.py
#-----#
('Datafile with space-time averages: ', 'DATA/TSERIES/tseries_ccpone_64cubed.npy')
('Central time (in s): ', 611.0)
('Averaging windows (in s): ', 600.0)
('Time range (in s from-to): ', 300.0, 957.0)
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Resolution: 64 64 64
Radial size of computational domain (in cm): 4.03e+08 7.97e+08
Radial size of convection zone (in cm): 4.03e+08 7.91e+08
Extent of convection zone (in Hp): 2.066258
Averaging time window (in s): 600.000000
RMS velocities in convection zone (in cm/s): 1.27e+07
Convective turnover timescale (in s) 6.08e+01
P_turb o P_gas 8.39e-04
Dissipation length scale (in cm): 5.61e+08
Total nuclear luminosity (in erg/s): -3.98e+45
Rate of TKE dissipation (in erg/s): 1.48e+45
Dissipation timescale for TKE (in s): 22.038489
Reynolds number: 245
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