

OBURN MLREZ (384x192x192)

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In [1]: run ransX.py
#-----#
('Datafile with space-time averages: ', 'DATA/TSERIES/tseries_ransout_mlrezoburn.npy')
('Central time (in s): ', 494.3)
('Averaging windows (in s): ', 400.0)
('Time range (in s from-to): ', 290.0, 700.0)
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Resolution: 384 192 192
Radial size of computational domain (in cm): 3.00e+08 1.00e+09
Radial size of convection zone (in cm): 4.27e+08 8.39e+08
Extent of convection zone (in Hp): 1.917783
Averaging time window (in s): 400.000000
RMS velocities in convection zone (in cm/s): 8.17e+06
Convective turnover timescale (in s) 1.01e+02
P_turb o P_gas 2.23e-04
Dissipation length scale (in cm): 7.99e+08
Total nuclear luminosity (in erg/s): 1.19e+46
Rate of TKE dissipation (in erg/s): 1.17e+45
Dissipation timescale for TKE (in s): 48.858122
Reynolds number: 1288
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