

HHEFLASH – low-rez (PLOTS ON LEFT ARE FROM DATA BEFORE THE H-HE MERGER, THE PLOTS ON RIGHTS ARE FROM AFTER THE H-HE MERGER)

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#-----#
('Datafile with space-time averages: ', 'DATA/TSERIES/tseries_ransout_hheflash_lrez2.npy')
('Central time (in s): ', 7887.3)
('Averaging windows (in s): ', 5700.0)
('Time range (in s from-to): ', 5000.0, 11000.0)
-----#
Resolution: 192 96 96
Radial size of computational domain (in cm): 8.04e+08 6.03e+09
Radial size of convection zone (in cm): 1.09e+09 2.76e+09
Extent of convection zone (in Hp): 2.624842
Averaging time window (in s): 5700.000000
RMS velocities in convection zone (in cm/s): 3.34e+06
Convective turnover timescale (in s) 1.00e+03
P_turb o P_gas 7.40e-04
Dissipation length scale (in cm): 2.24e+09
Total nuclear luminosity (in erg/s): 2.47e+43
Rate of TKE dissipation (in erg/s): 3.82e+42
Dissipation timescale for TKE (in s): 335.324760
Reynolds number: 391
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#-----#
('Datafile with space-time averages: ', 'DATA/TSERIES/tseries_ransout_hheflash_lrez3.npy')
('Central time (in s): ', 14887.4)
('Averaging windows (in s): ', 7700.0)
('Time range (in s from-to): ', 11000.0, 19000.0)
-----#
Resolution: 192 96 96
Radial size of computational domain (in cm): 8.04e+08 6.03e+09
Radial size of convection zone (in cm): 9.03e+08 5.78e+09
Extent of convection zone (in Hp): 4.036183
Averaging time window (in s): 7700.000000
RMS velocities in convection zone (in cm/s): 1.70e+07
Convective turnover timescale (in s) 5.74e+02
P_turb o P_gas 2.06e-02
Dissipation length scale (in cm): 7.38e+09
Total nuclear luminosity (in erg/s): 1.81e+45
Rate of TKE dissipation (in erg/s): 3.76e+44
Dissipation timescale for TKE (in s): 217.127420
Reynolds number: 986
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