Dual core flash low -rez - preliminnary

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#----------------------------------------------------#
('Datafile with space-time averages: ', 'DATA/TSERIES/tseries_ransout_hheflash_1rez.npy')
('Central time (in s): ', 2234.1)
('Averaging windows (in s): ', 1450.0)
('Time range (in s from-to): ', 1500.0, 3000.0)
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Resolution: 192 96 96
Radial size of computational domain (in cm): 8.04e+08 6.03e+09
Radial size of convection zone (in cm):  1.05e+09 2.43e+09
Extent of convection zone (in Hp): 2.515961
Averaging time window (in s): 1450.000000
RMS velocities in convection zone (in cm/s):  2.97e+06
Convective turnover timescale (in s)  9.33e+02
P_turb o P_gas 6.17e-04
Dissipation length scale (in cm): 2.56e+09
Total nuclear luminosity (in erg/s): 1.22e+43
Rate of TKE dissipation (in erg/s): 1.96e+42
Dissipation timescale for TKE (in s): 430.933514
Reynolds number: 344
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turbulent kinetic energy equation

rhoX transport for neut

Legend:
- $-\partial_t(\overline{\rho}\widetilde{X})$
- $-\nabla_r(\overline{\rho}\widetilde{X}\widetilde{u}_r)$
- $-\nabla_r f$
- $+\overline{\rho}\widetilde{X}^{\mathrm{nuc}}$

x-axis: $r\,(10^8\,\mathrm{cm})$

y-axis: $\mathrm{g\,cm^{-3}\,s^{-1}}$

rhoX transport for deut

rhoX transport for prot

rhoX transport for he3

rhoX transport for he4

rhoX transport for c12

rhoX transport for c13

rhoX transport for n13

rhoX transport for n15

rhoX transport for o15

rhoX transport for ne20

$r\,(10^8\,\mathrm{cm})$

Legend:
- $-\partial_t(\overline{\rho}\widetilde{X})$
- $-\nabla_r(\overline{\rho}\widetilde{X}\widetilde{u}_r)$
- $-\nabla_r f$
- $+\overline{\rho}\widetilde{\dot{X}}^{\mathrm{nuc}}$

y-axis: $\mathrm{g\,cm^{-3}\,s^{-1}}$