Benchmark experiment

June 28, 2015, Revision: 1.2

Use file kvect120.dat with 4470 vectors within the range 119.98 120.02. Amplitude: amplaa=5e-5. Run first with $\nu = \eta = 10^{-5}$ until $t = 22.7$ (Fig. 1) and then continue with reduced values: $\nu = \eta = 2 \times 10^{-6}$ (Fig. 2).

The initial values of B_{rms} is 0.48. The maximum rms velocity is reached at $t = 0.06$ with $u_{\mathrm{rms}} = 0.27$ and then $b_{\mathrm{rms}} = 0.36$.
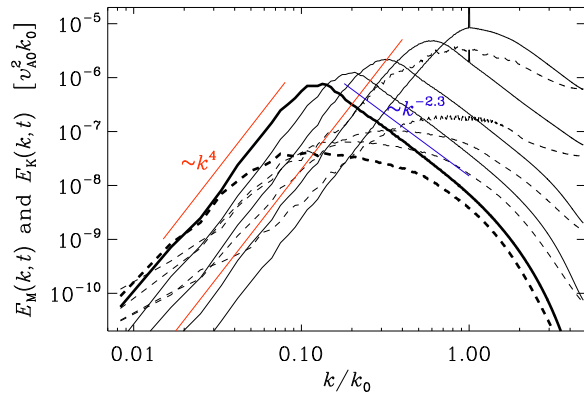

Figure 1: Spectra at $t = 0.8$, 3.4, 9, and 22.7. $\nu = \eta = 10^{-5}$.
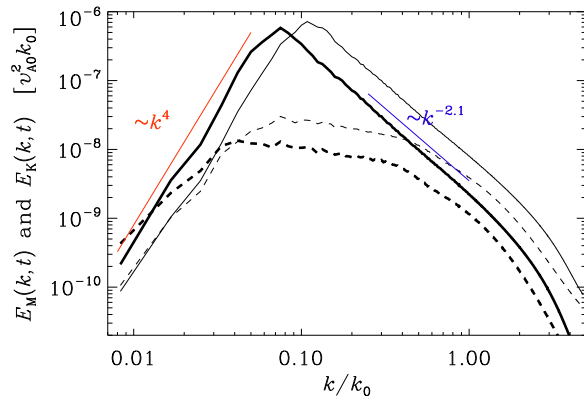

Figure 2: Spectra at $t = 30$ and 77. Continued at $\nu = \eta = 2 \times 10^{-6}$.