

Results from 128^3 simulations at $Re = 3000$ for the Taylor Green vortex problem

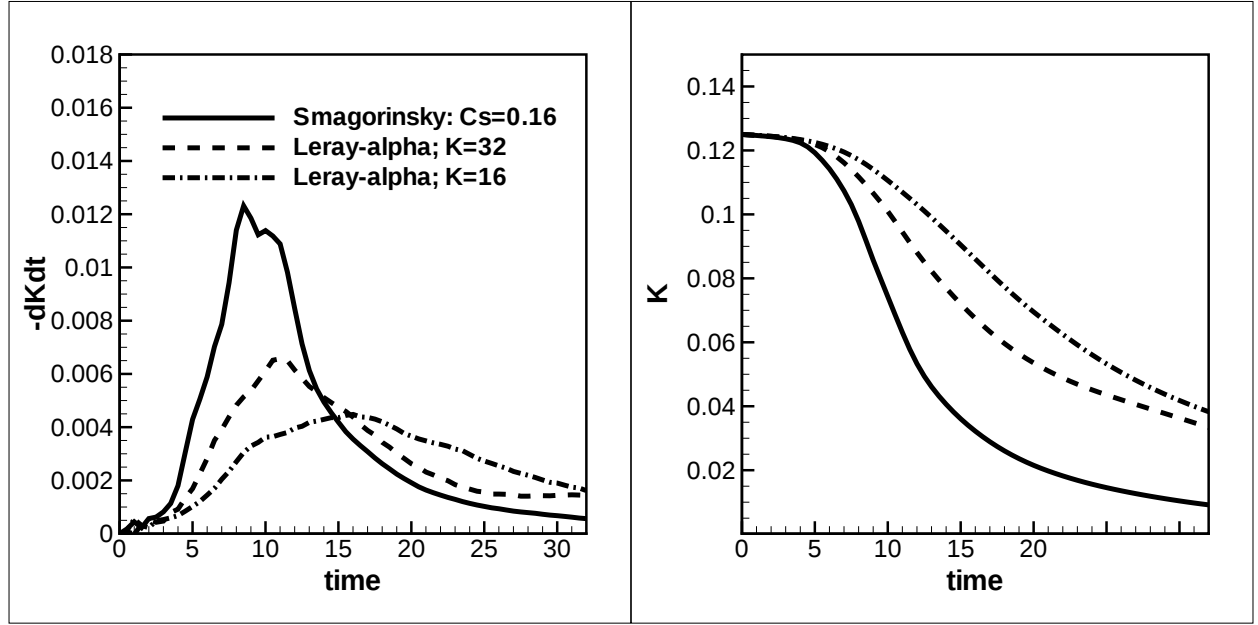


Figure 1: Evolution of the decay rate (left) and kinetic energy (right)

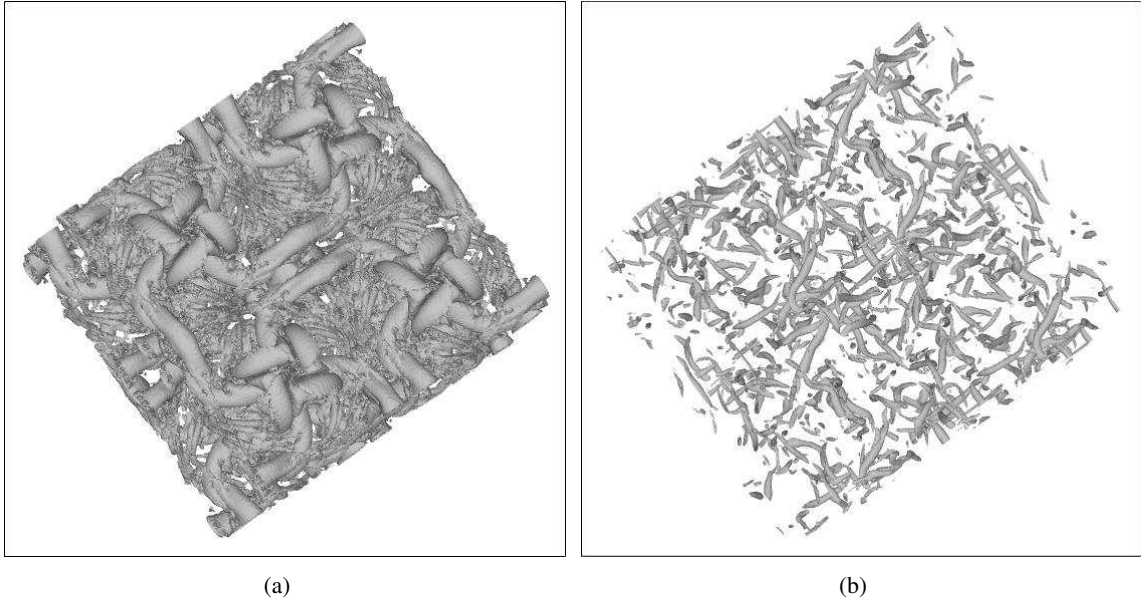


Figure 2: Lamda-2 vortices for the Smagorinsky model ($C_s = 0.16$) at (a) $t=8$ and (b) $t=32$.

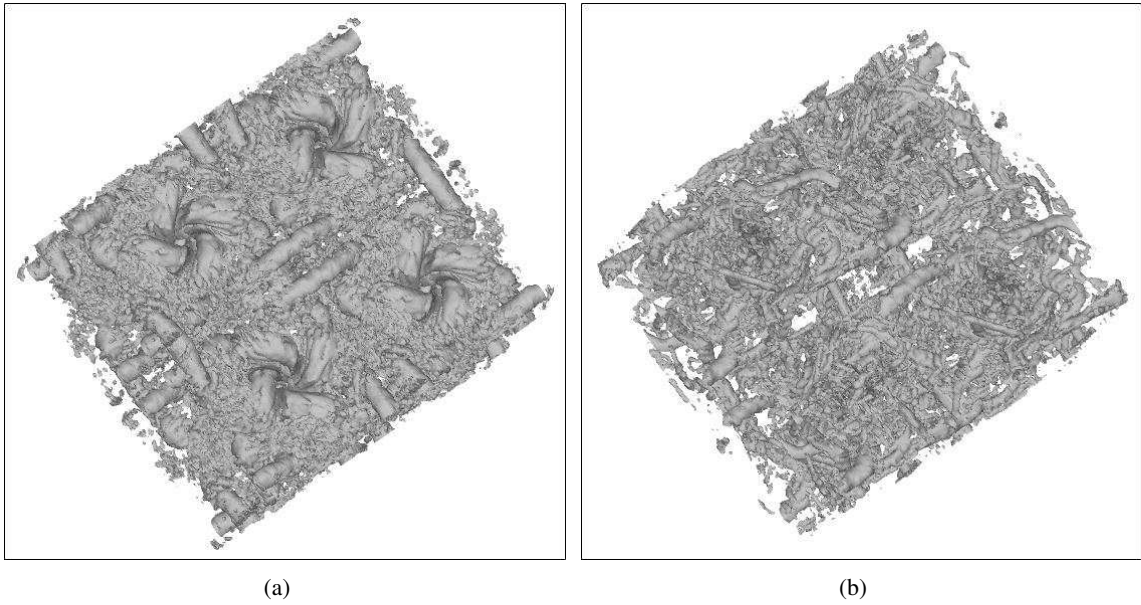


Figure 3: Lamda-2 vortices for the leray- α model ($k_\alpha = 32$) at (a) $t=8$ and (b) $t=32$.

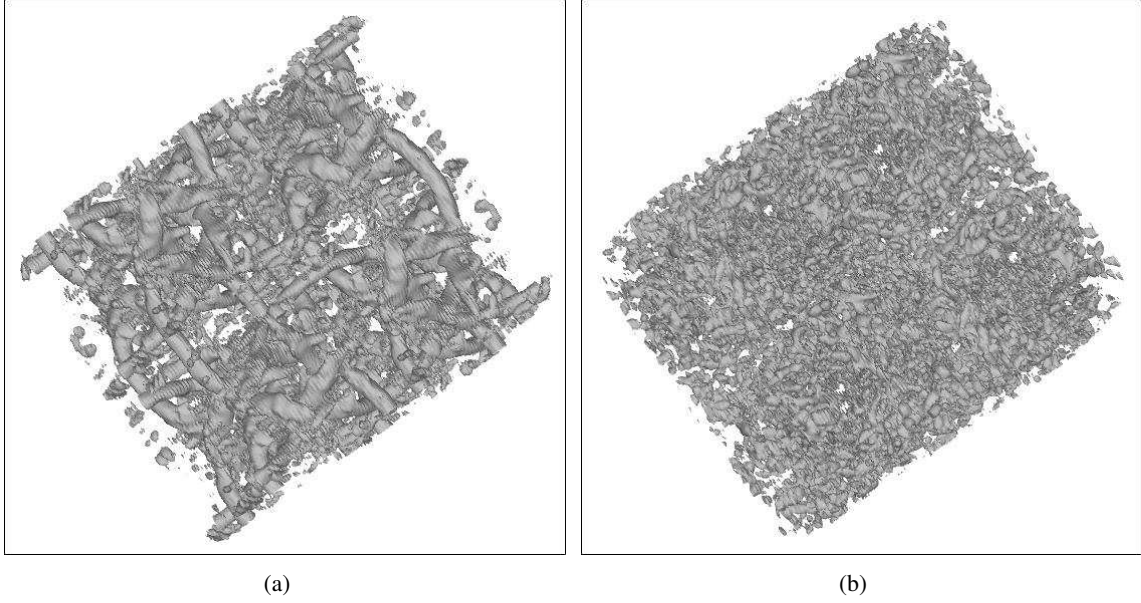


Figure 4: Lamda-2 vortices for the leray- α model ($k_\alpha = 16$) at (a) $t=8$ and (b) $t=32$.