Movie Captions

- Movie 1: The transient evolution of the particle distribution $n(x,t)$ (c.f. figure 2a) and balancing of terms in (5.5) in comparison to their respective local approximation (c.f. figure 3a) in a suspension of spherical and strongly gyrotactic particles ($\beta = 2.2, \alpha_0 = 0$) subjected to a vertical shear flow $W(x) = -\cos(\pi x) - 1$ with $Pe_s = 0.25$ and $Pe_f = 1$.
- Movie 2: The transient evolution of the particle distribution $n(x,t)$ (c.f. figure 2b) and balancing of terms in (5.5) in comparison to their respective local approximation (c.f. figure 3b) in a suspension of non-spherical and strongly gyrotactic particles ($\beta = 2.2, \alpha_0 = 0.31$) subjected to a vertical shear flow $W(x) = -\cos(\pi x) - 1$ with $Pe_s = 0.25$ and $Pe_f = 1$.
- Movie 3: The transient evolution of the particle distribution $n(x,t)$ (c.f. figure 2c) and balancing of terms in (5.5) in comparison to their respective local approximation (c.f. figure 3c) in a suspension of non-spherical and weakly gyrotactic particles ($\beta = 0.21, \alpha_0 = 0.31$) subjected to a vertical shear flow $W(x) = -\cos(\pi x) - 1$ with $Pe_s = 0.25$ and $Pe_f = 1$.
- Movie4: The transient evolution of the particle distribution $n(x,t)$ (c.f. figure 2d) and balancing of terms in (5.5) in comparison to their respective local approximation (c.f. figure 3d) in a suspension of non-spherical and non-gyrotactic particles ($\beta = 0, \alpha_0 = 0.31$) subjected to a vertical shear flow $W(x) = -\cos(\pi x) - 1$ with $Pe_s = 0.25$ and $Pe_f = 1$.
- Movie 5: The transient evolution of the particle distribution $n(z,t)$ (c.f. figure 7a) and balancing of the z components in (6.2) in comparison to their respective local approximation (c.f. figure 8a) in a suspension of non-spherical and strongly gyrotactic particles ($\beta = 2.2, \alpha_0 = 0.31$) subjected to a horizontal shear flow $U(z) = \cos(\pi z)$ with $Pe_s = 0.25$ and $Pe_f = 1$.
- Movie 6: The transient evolution of the particle distribution $n(z,t)$ (c.f. figure 7b) and balancing of the z components in (6.2) in comparison to their respective local approximation (c.f. figure 8b) in a suspension of non-spherical and weakly gyrotactic particles ($\beta = 0.21, \alpha_0 = 0.31$) subjected to a horizontal shear flow $U(z) = \cos(\pi z)$ with $Pe_s = 0.25$ and $Pe_f = 1$.