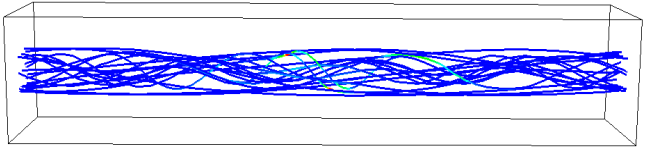
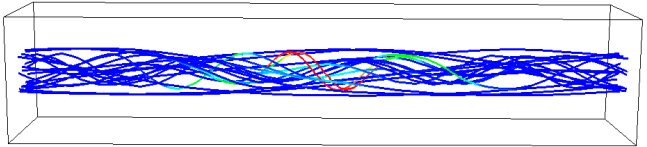
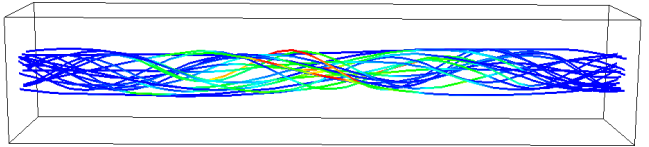
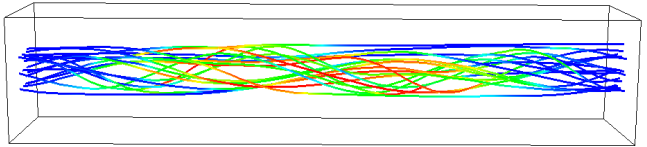
(a) time = 100



(b) time = 100



(a) time = 125



(b) time = 125