Model Parameters:

L = filament length (μm)

μ_e = extensional modulus (nN)

μ_c = extensional modulus (nN)

l_c = cross-link spacing (μm)

ξ = inter-filament friction (nN•s/μm)

υ = active filament force (nN)

ϕ = cross-link active fraction

τ_r = filament recycling time (s)

ζ = medium viscosity (nN•s/μm^2)