



### Model Parameters

- $L$  = filament length ( $\mu\text{m}$ )
- $\mu_e$  = extensional modulus (nN)
- $\mu_c$  = extensional modulus (nN)
- $\xi$  = inter-filament friction ( $\text{nN}\cdot\text{s}$ )
- $l_c$  = cross-link spacing ( $\mu\text{m}$ )
- $v$  = active filament force (nN)
- $\phi$  = cross-link active fraction
- $\tau_r$  = filament recycling time (s)
- $\zeta$  = medium viscosity ( $\text{nN}\cdot\text{s}/\mu\text{m}$ )