

FIG. 1: A few snapshots showing different time points for two different initial configurations. a) A straight initial configuration and b) a random extended configuration.

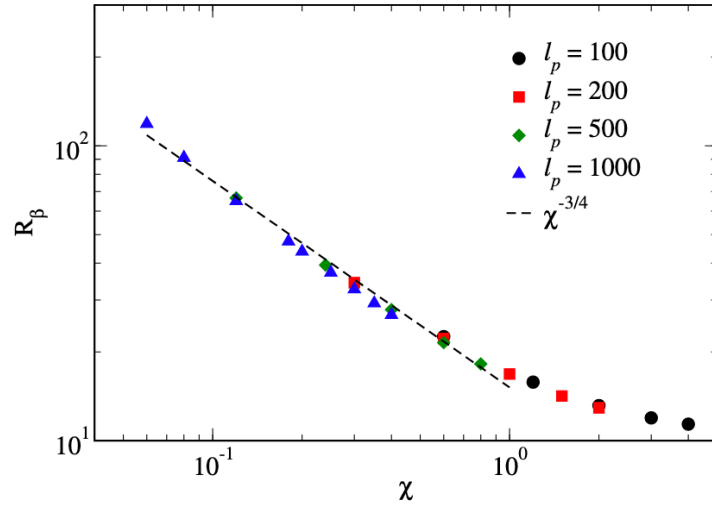


FIG. 2: The curvature radius (R_β) at $\rho = 0$ as a function of flexure number defined as $\chi = l_0 Pe / l_p$ for various persistence lengths ($l_p = 100, 200, 500$, and 1000) as mentioned in the plot .