



	Motion of Polymer	Motion of I
*	A new position for the polymer strand is tested, using the force on it as a bias. Polymer strands are allowed to move if the total energy of the system after the move is less than or equal to the energy of the system before the move. (including the energy associated with bending and stretching). If the total energy increases, the move is accepted with Boltzmann probability.	<ul> <li>For each new configuration NPs a</li> <li>Particles are allowed to move total energy of the system aft equal to the energy of the system aft be for a system and the total energy increases, and the boltzmann probability.</li> <li>Any move is rejected if the particle or with any polymer system.</li> </ul>
	U(r)       Energy         Polymer       Bassociated         Polymer       Bassociated         Polymer       Bassociated         Interactions       Interactions         Interactions	A ULUC NP -N Interactions have contributions from Coulombic and Van Der Waals interactions Total Ene of the Syster
	Figure 3: Contribution of the polymer strands to the total energy of the system	Figure 4: Contribution to the total energy of

![](_page_0_Picture_9.jpeg)

![](_page_0_Figure_10.jpeg)

Figure 10: Release profile for the first 20% of NPs from a generic physical hydrogel.

![](_page_0_Picture_30.jpeg)