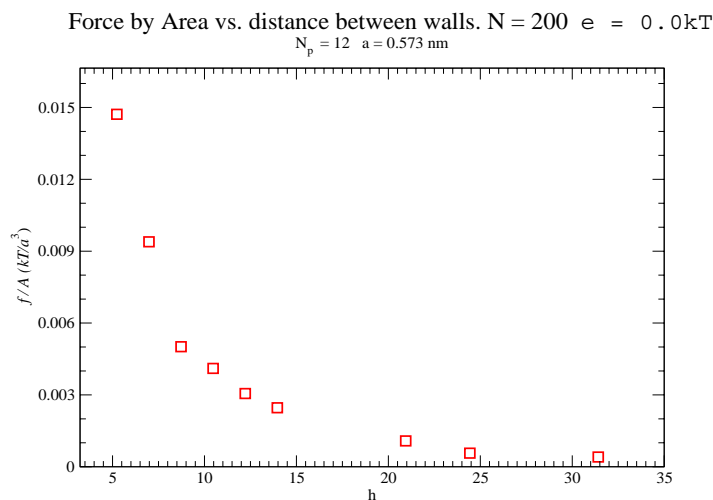


FORCE DEVELOPED BY A HOMOPOLYMER SOLUTION CONFINED IN A SLIT

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The Single Chain Mean Field theory (SCMF), is used to analyze the behavior of confined polymer solution, in particular the density profile and force as well as the bridging phenomena are described. The preliminary results are showed in the figure.



[1] Avalos et al, *Development of a Importance Sampling Single Chain Mean Field Theory for Polymers Adsorption onto a Flat Wall*. *Macromolecules*, 37,1124-1133,2004.

[2] Rajagopalan et al, *Bridging of an Isolated Polymer Chain*, *Macromolecules*, 33,7157-7164, 2000.